

Features

- 1600UT System™ 1 is a high thermal performance, outside glazed, captured 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
- Blast Mitigation
- Human Impact
- 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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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.

PICTORIAL VIEW	4
1" INFILL DETAILS	5
ENTRANCE DETAILS	6-8
CORNERS	9
SPLAYED MULLION OPTIONS	10
WINDOWS	11
1-3/4" INFILL DETAILS.....	12
ENTRANCE DETAILS	13-15
CORNERS	16
WINDOWS	17
BACKPAN DETAILS.....	18, 19
MISCELLANEOUS FRAMING.....	20, 21
BLAST MITIGATION.....	22
HUMAN IMPACT.....	23
ANCHORING	24, 25
WIND LOAD CHARTS.....	26-34
DEADLOAD CHARTS	35-39
THERMAL CHARTS	40-72

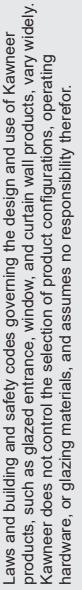
Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

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

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

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.

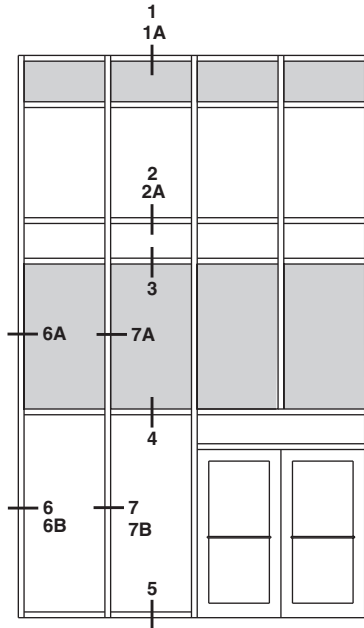
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.



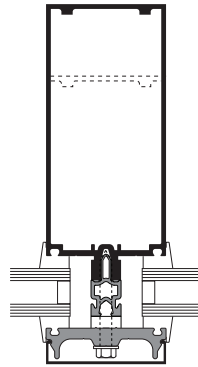
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

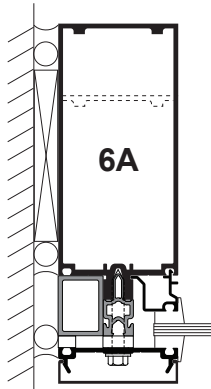
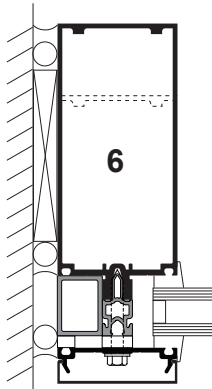
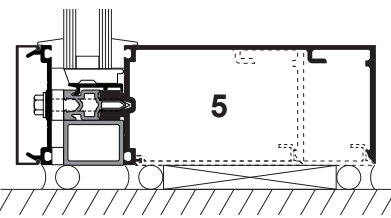
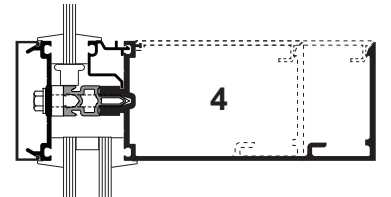
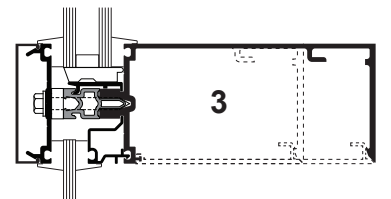
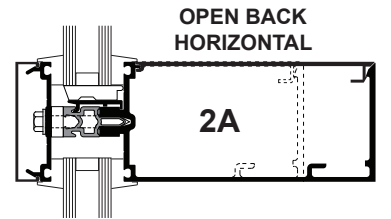
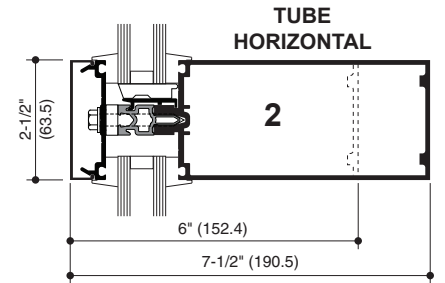
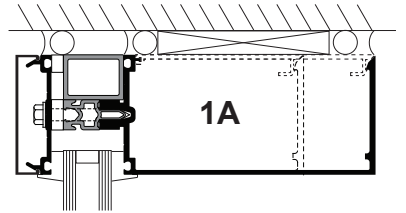
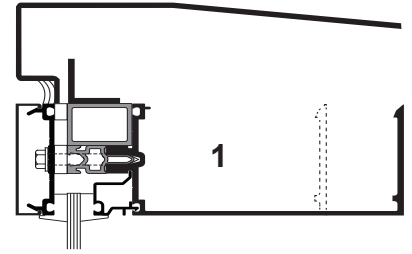
Additional information and CAD details are available at www.kawneer.com



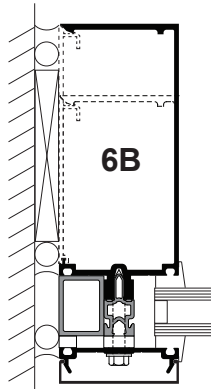
ELEVATION IS NUMBER KEYED TO DETAILS



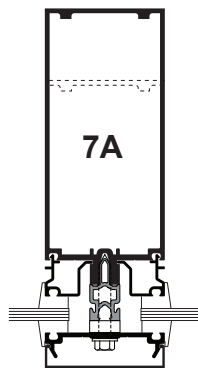
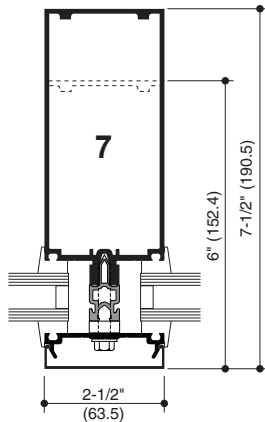
OPTIONAL
FIBERGLASS
PRESSURE PLATE



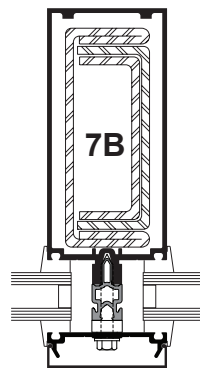
1/4" INFILL
ADAPTER



OPEN BACK JAMB



1/4" INFILL
ADAPTER

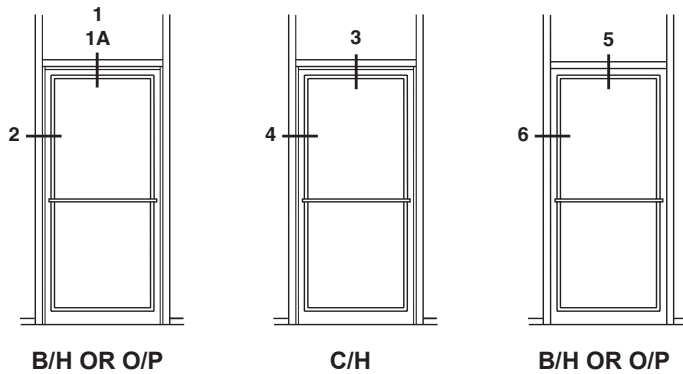


STEEL
REINFORCING
AS REQUIRED

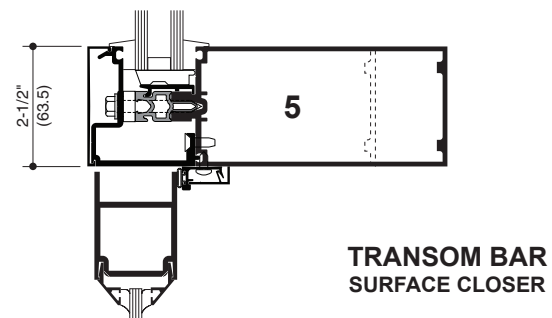
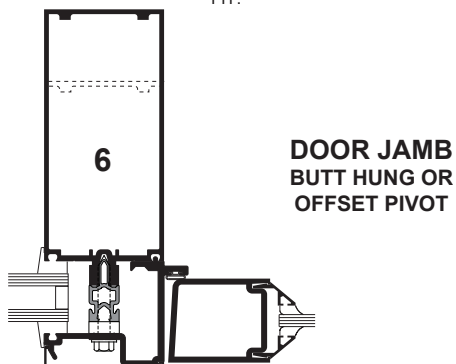
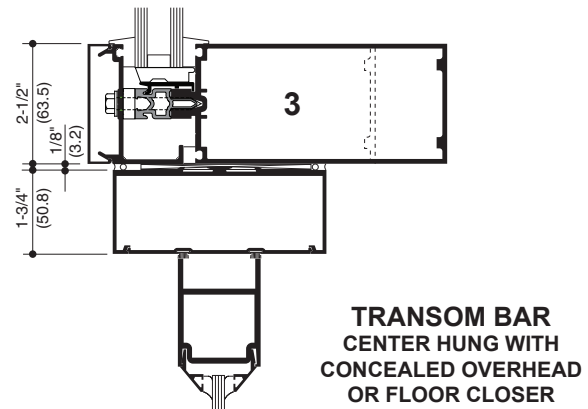
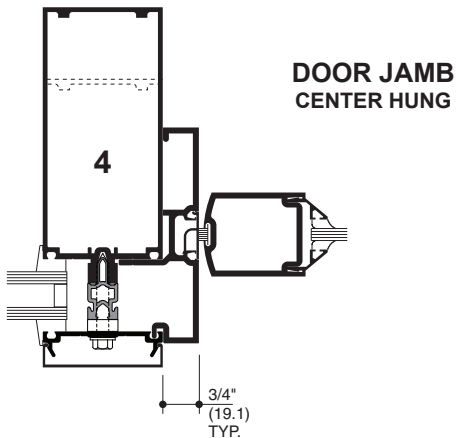
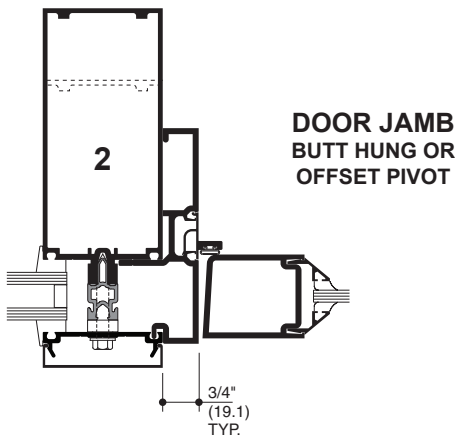
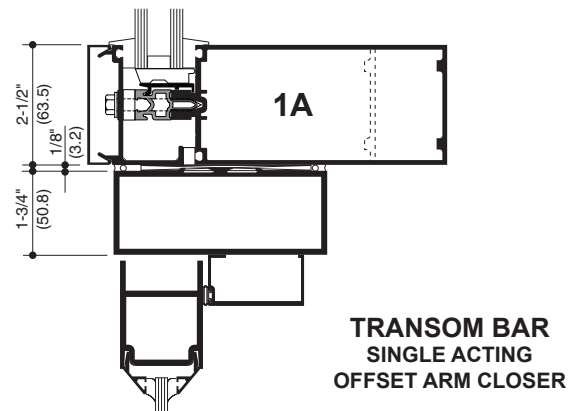
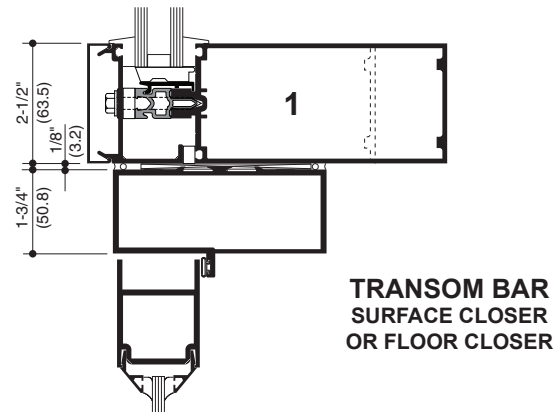
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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



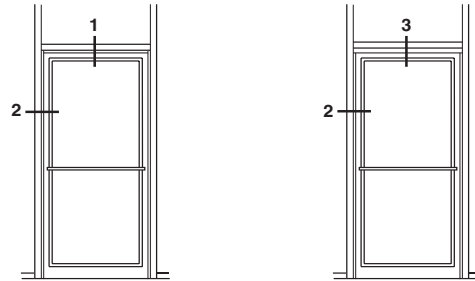
ELEVATION IS NUMBER KEYED TO DETAILS



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.

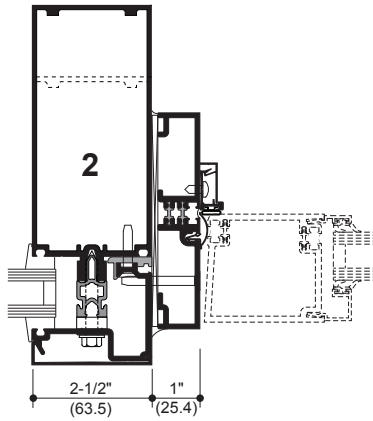
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

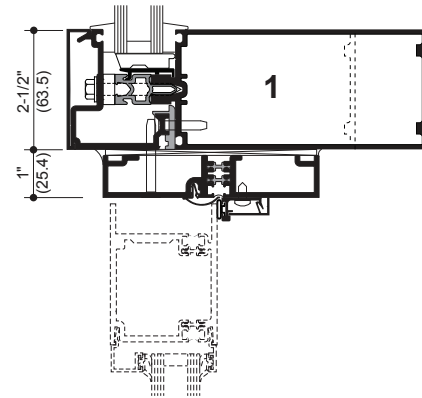


B/H OR O/P

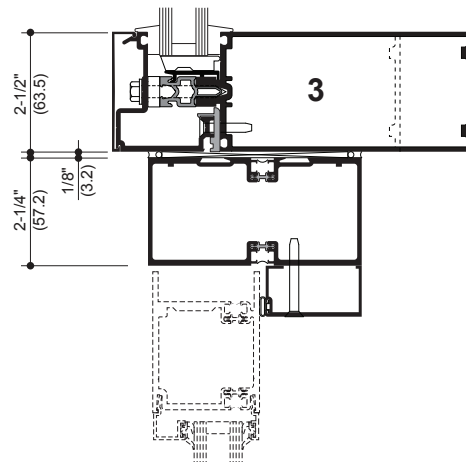
ELEVATION IS NUMBER KEYED TO DETAILS



**DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT**



**TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER**

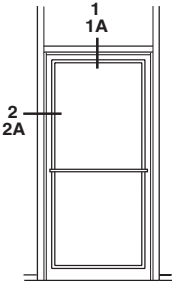


**TRANSOM BAR
CONCEALED CLOSER**

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.

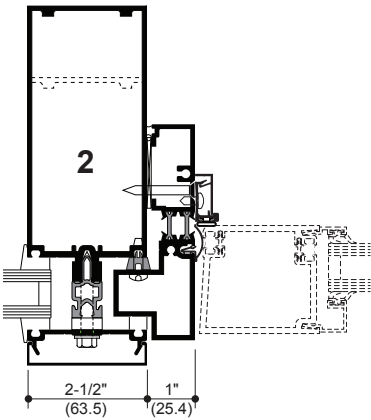
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

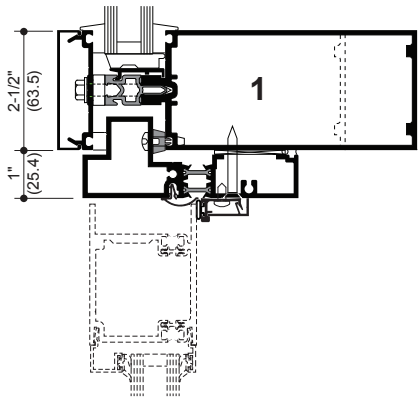


B/H OR O/P

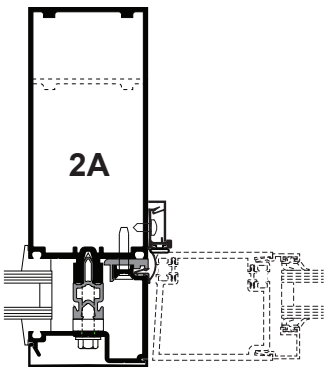
ELEVATION IS NUMBER KEYED TO DETAILS



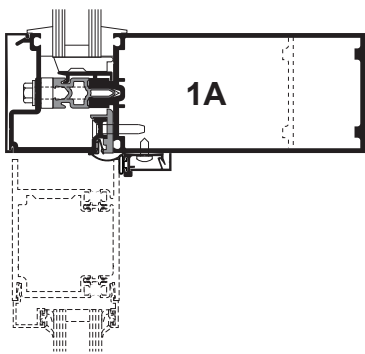
DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT



TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER



DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

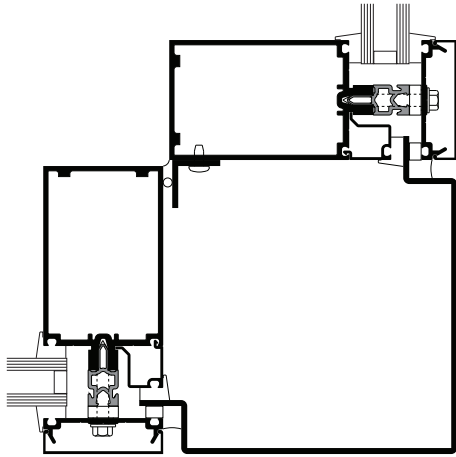


TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER

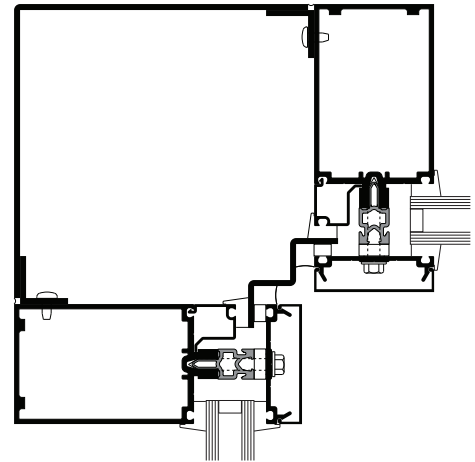
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

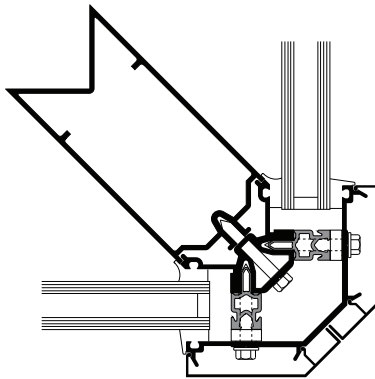
Additional information and CAD details are available at www.kawneer.com



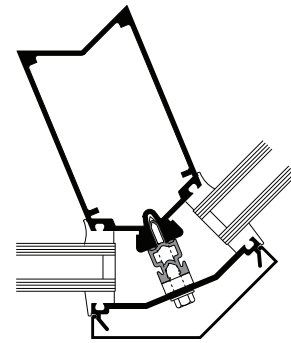
90° OUTSIDE CORNER



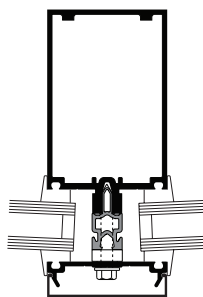
90° INSIDE CORNER



90° OUTSIDE CORNER

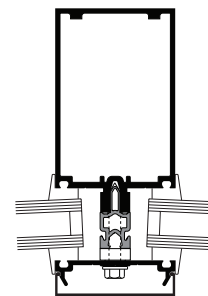


135° OUTSIDE CORNER



0° TO 5°

OUTSIDE SPLAYED MULLIONS



0° TO 5°

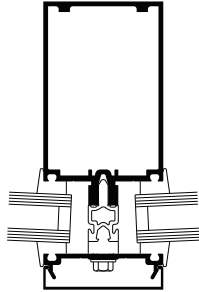
INSIDE SPLAYED MULLIONS

OTHER SPLAY OPTIONS AVAILABLE

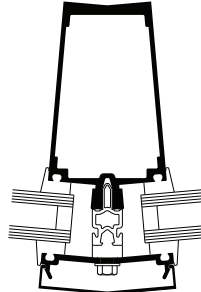
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

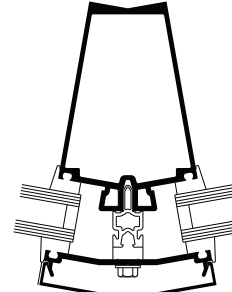
Additional information and CAD details are available at www.kawneer.com



0° TO 5°

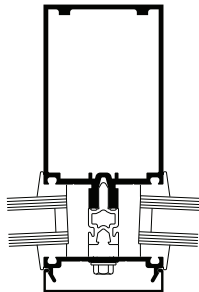


5° TO 15°

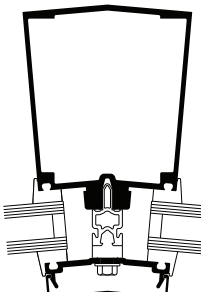


15° TO 25°

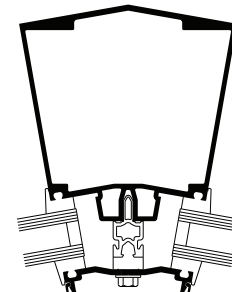
OUTSIDE SPLAYED MULLIONS



0° TO 5°



5° TO 15°



15° TO 25°

INSIDE SPLAYED MULLIONS

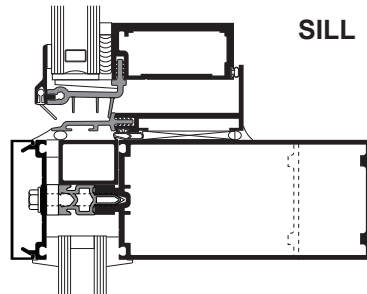
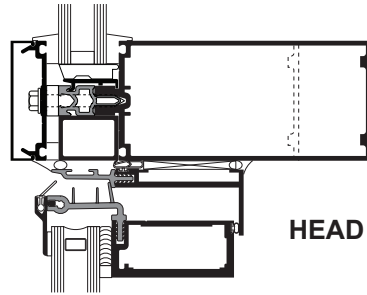
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

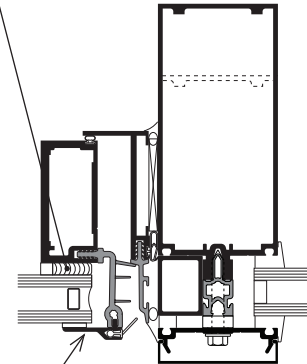
Additional information and CAD details are available at www.kawneer.com

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.



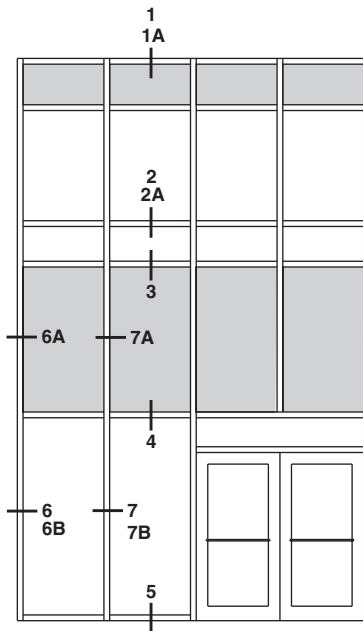
STRUCTURAL SILICONE SEALANT
(BY OTHERS)*



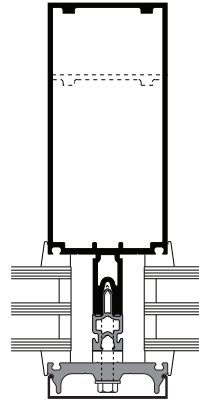
Trim Cover available in
#29 Black anodized finish only.

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

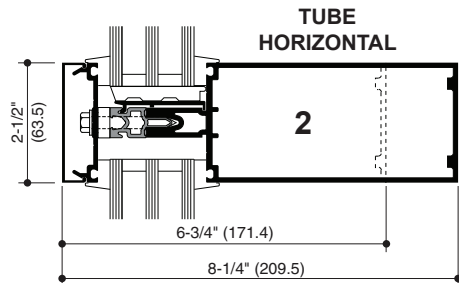
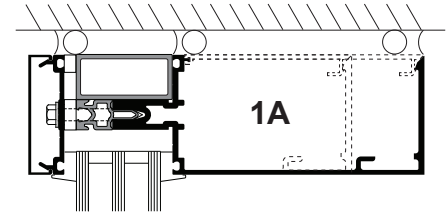
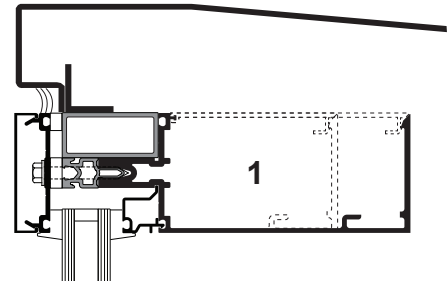
Additional information and CAD details are available at www.kawneer.com



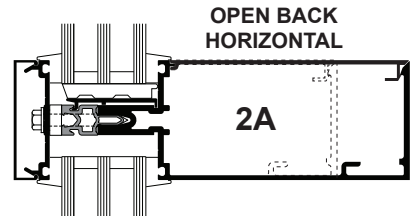
ELEVATION IS NUMBER KEYED TO DETAILS



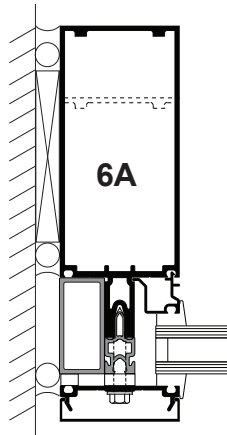
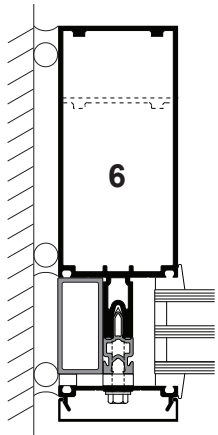
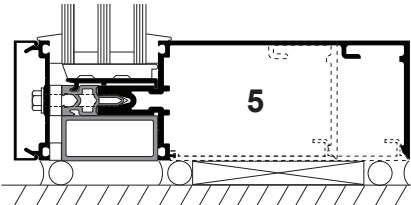
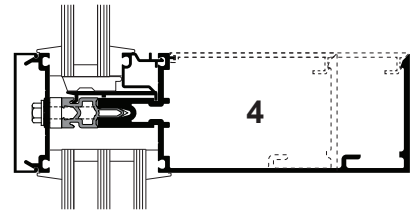
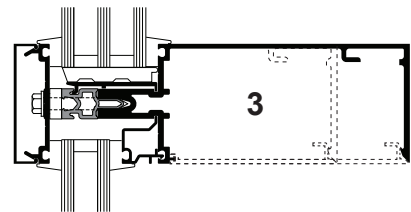
OPTIONAL
FIBERGLASS
PRESSURE PLATE



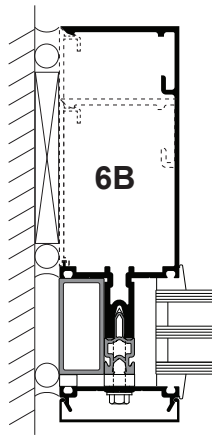
TUBE
HORIZONTAL



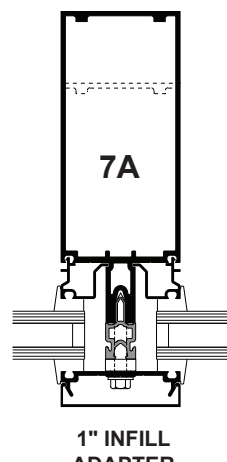
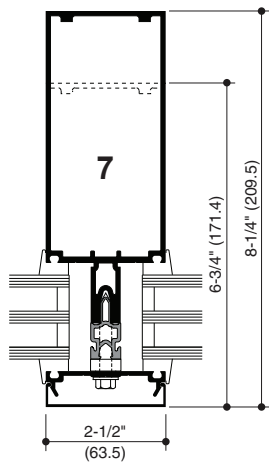
OPEN BACK
HORIZONTAL



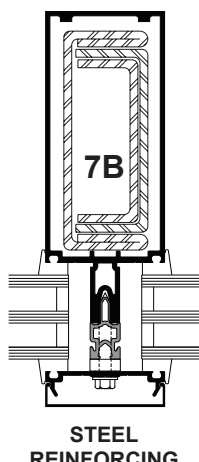
1" INFILL
ADAPTER



OPEN BACK JAMB



1" INFILL
ADAPTER



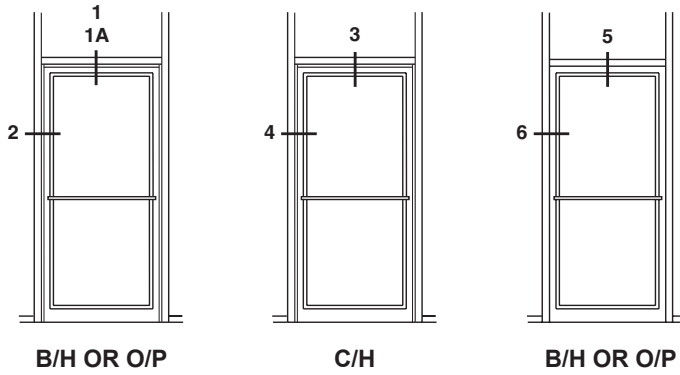
STEEL
REINFORCING
AS REQUIRED

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.

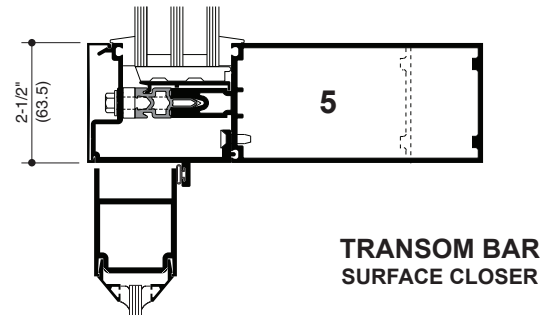
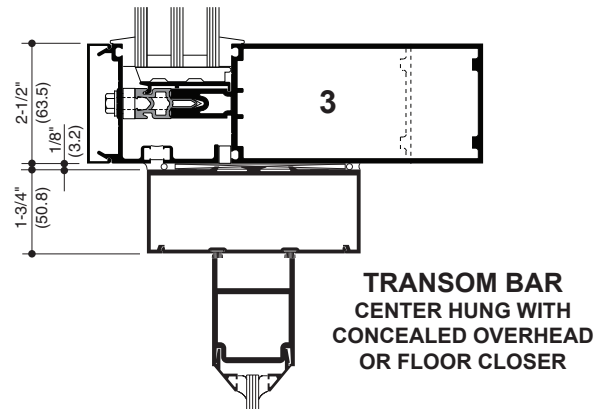
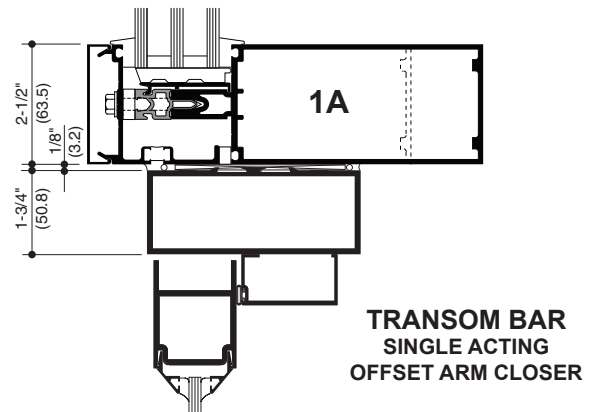
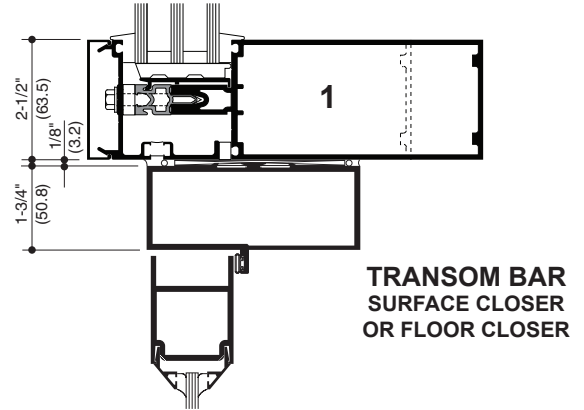
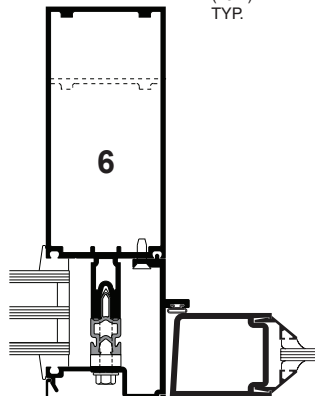
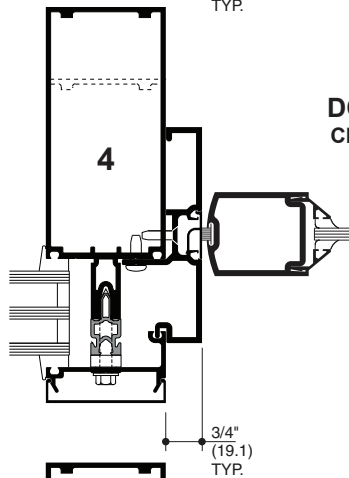
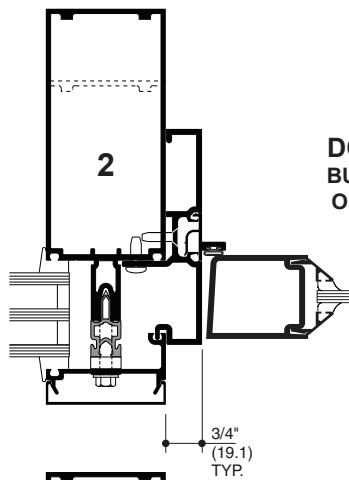
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

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



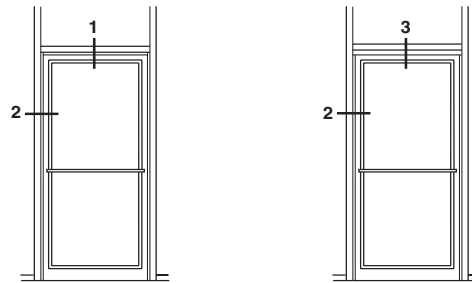
ELEVATION IS NUMBER KEYED TO DETAILS



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.

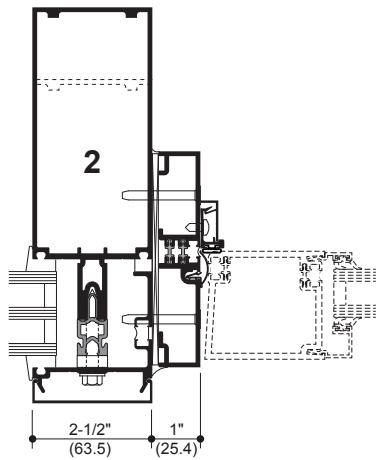
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

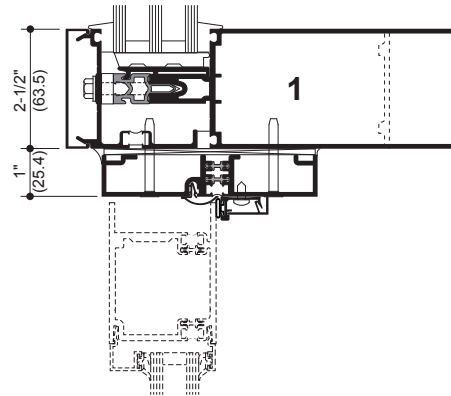


B/H OR O/P

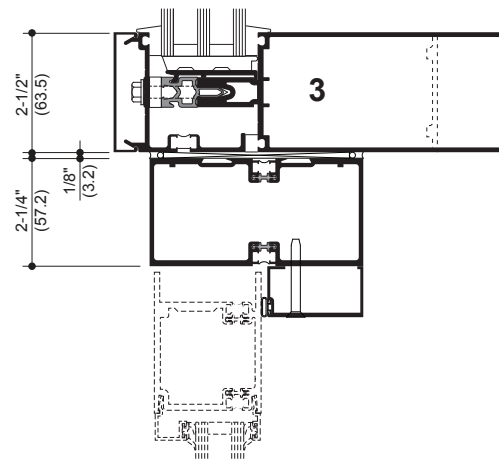
ELEVATION IS NUMBER KEYED TO DETAILS



DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT



TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER

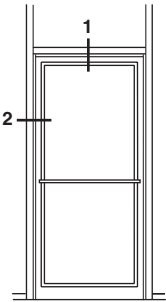


TRANSOM BAR
CONCEALED CLOSER

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.

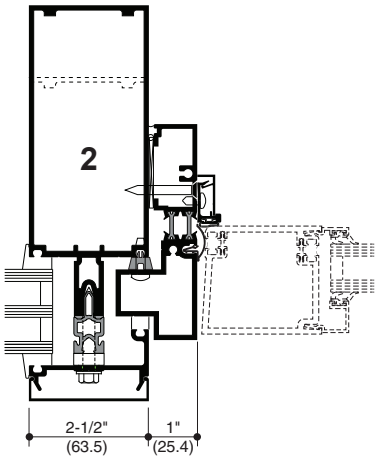
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

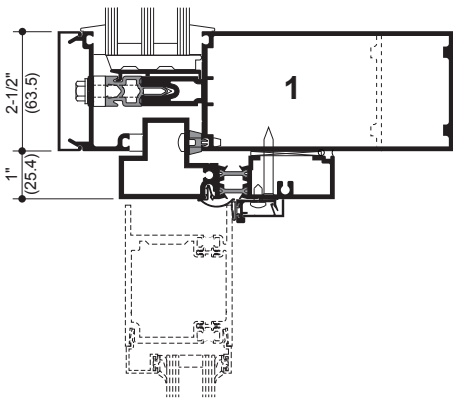


B/H OR O/P

ELEVATION IS NUMBER KEYED TO DETAILS



DOOR JAMB
BUTT HUNG OR
OFFSET PIVOT

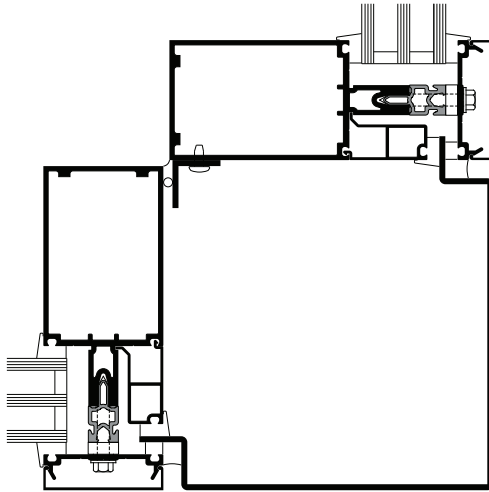


TRANSOM BAR
SURFACE CLOSER
OR FLOOR CLOSER

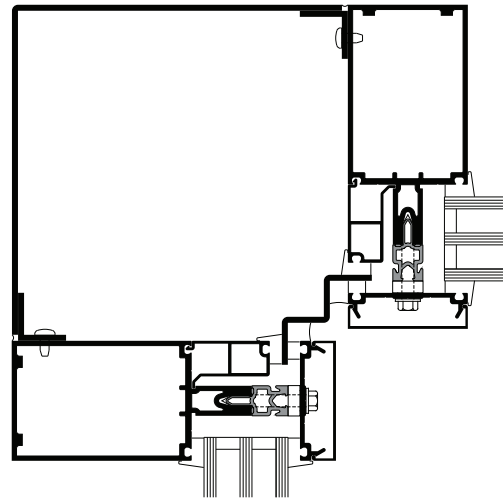
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

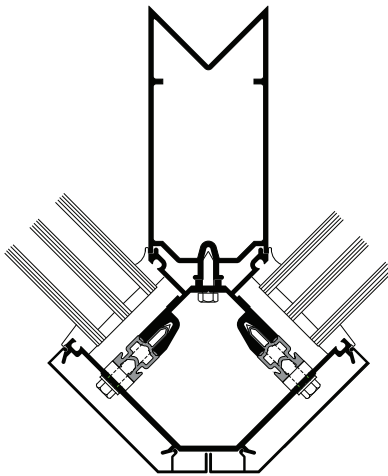
Additional information and CAD details are available at www.kawneer.com



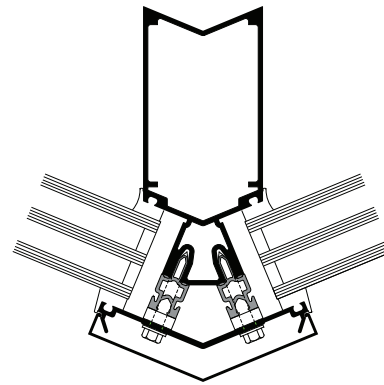
90° OUTSIDE CORNER



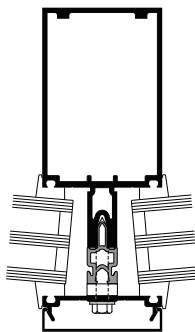
90° INSIDE CORNER



90° OUTSIDE CORNER

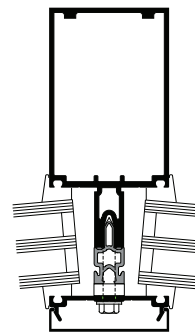


135° OUTSIDE CORNER



0° TO 5°

OUTSIDE SPLAYED MULLIONS



0° TO 5°

INSIDE SPLAYED MULLIONS

OTHER SPLAY OPTIONS AVAILABLE

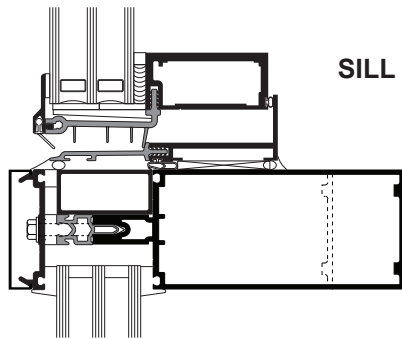
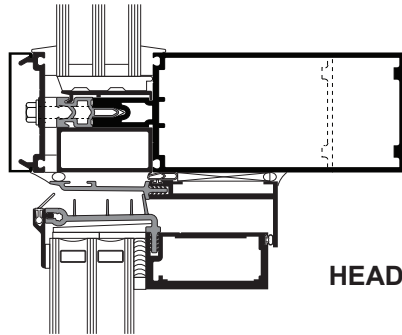
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

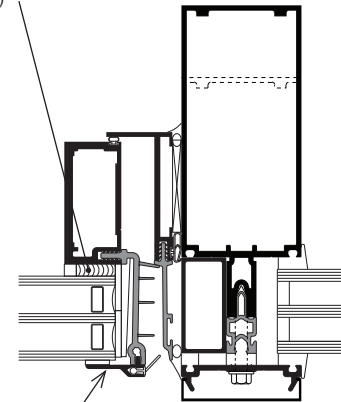
Additional information and CAD details are available at www.kawneer.com

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.



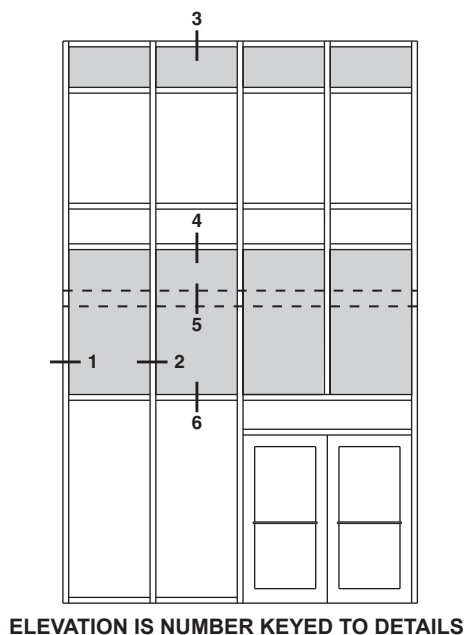
STRUCTURAL SILICONE SEALANT
(BY OTHERS)*



Trim Cover available in
#29 Black anodized finish only.

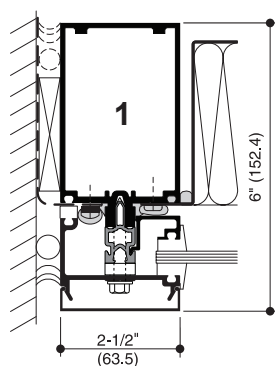
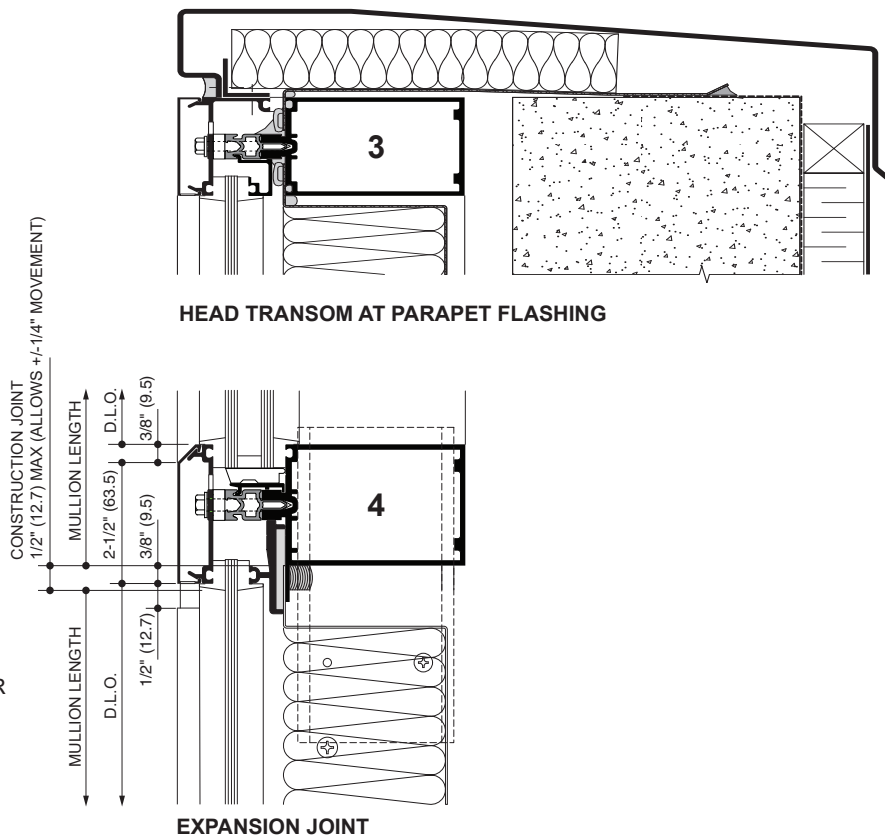
NOTE: AA®6400 vent can be accommodated.
Contact your Kawneer representative for other options.

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

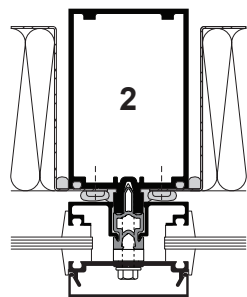


ELEVATION IS NUMBER KEYED TO DETAILS

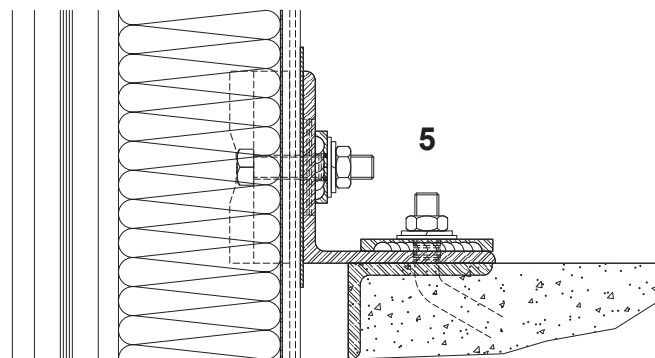
NOTE: 6" SYSTEM SHOWN, 7-1/2" SYSTEM SIMILAR



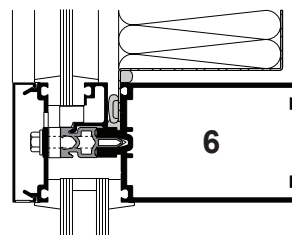
**JAMB MULLION
AT SPANDREL**
(With vapor barrier tie-in)



MULLION AT SPANDREL



TYPICAL DEADLOAD ANCHOR

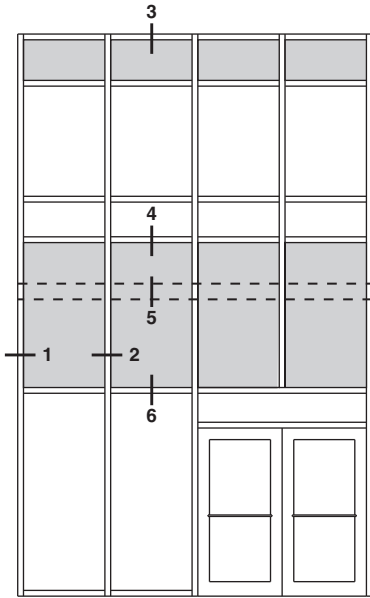


TRANSOM - SPANDREL OVER VISION

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.

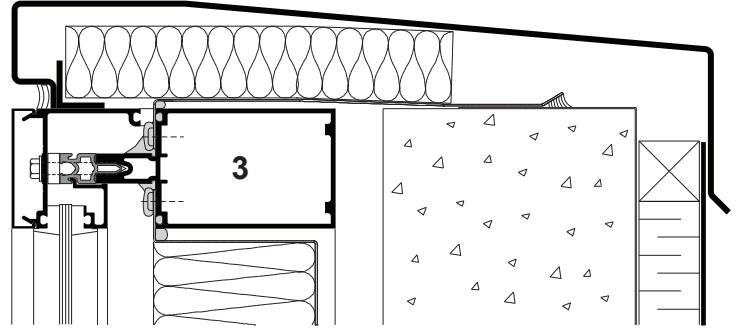
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

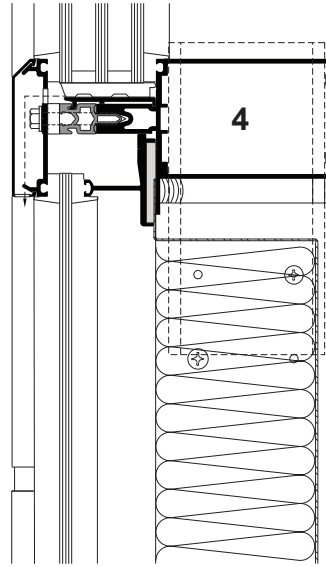


ELEVATION IS NUMBER KEYED TO DETAILS

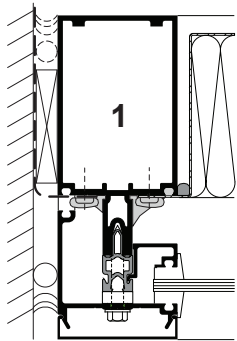
NOTE: 6" SYSTEM SHOWN, 7-1/2" SYSTEM SIMILAR



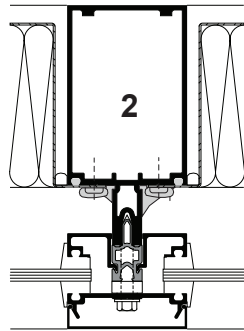
HEAD TRANSOM AT PARAPET FLASHING



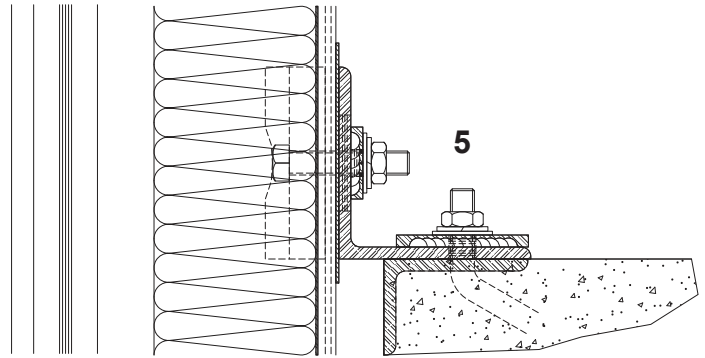
EXPANSION JOINT



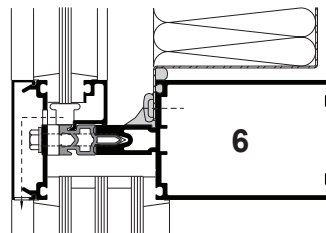
JAMB MULLION
AT SPANDREL
(With vapor barrier tie-in)



MULLION AT SPANDREL



TYPICAL DEADLOAD ANCHOR



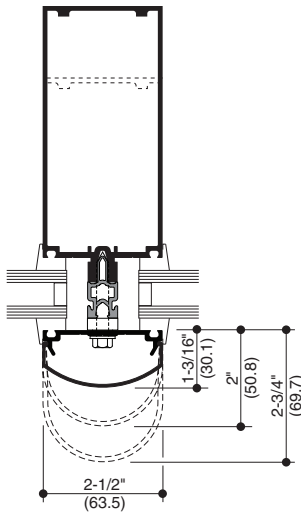
TRANSOM - SPANDREL OVER VISION

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.

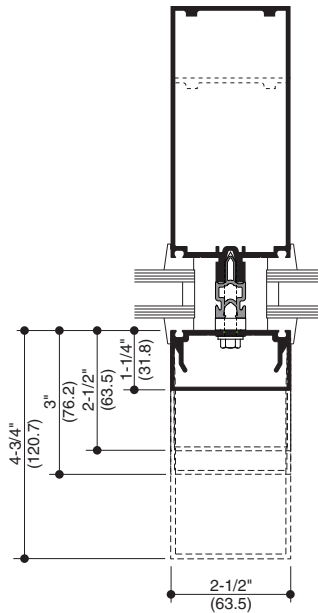
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

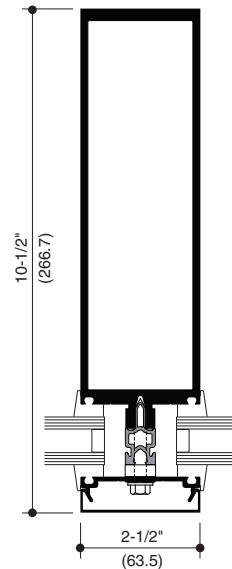
Architects – Most extrusion and window types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand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



**OPTIONAL
BULL NOSE COVERS**

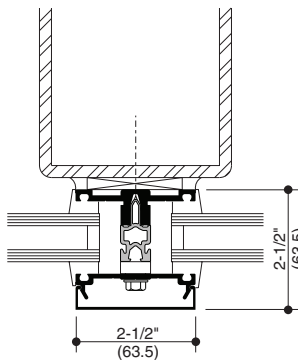


**OPTIONAL
DEEP COVERS**

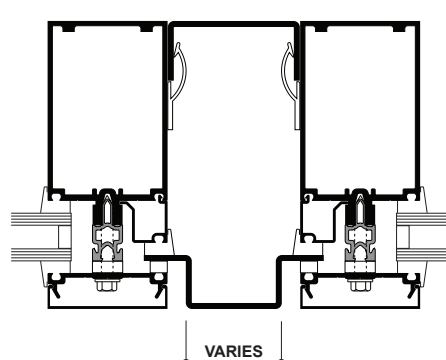
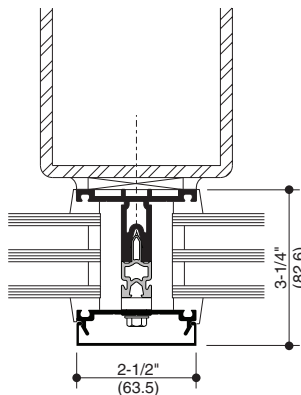


DEEP MULLION

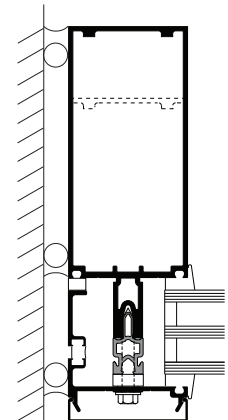
NOTE: 1-3/4" triple glazing similar.



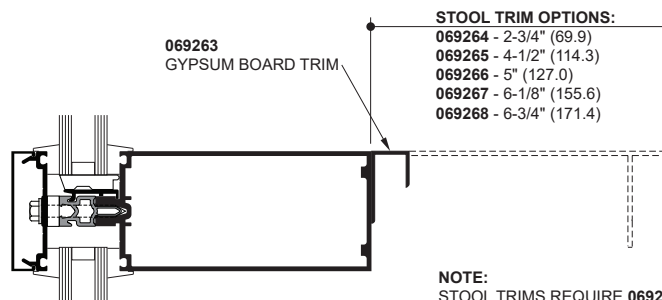
VENEER SYSTEM



DOUBLE MULLION



**THERMAL
PERIMETER
PRESSURE PLATE**



STOOL TRIM OPTIONS:

069264 - 2-3/4" (69.9)
069265 - 4-1/2" (114.3)
069266 - 5" (127.0)
069267 - 6-1/8" (155.6)
069268 - 6-3/4" (171.4)

NOTE:
STOOL TRIMS REQUIRE 069271 TRIM CLIP PACKAGE

INTERIOR STOOL TRIM

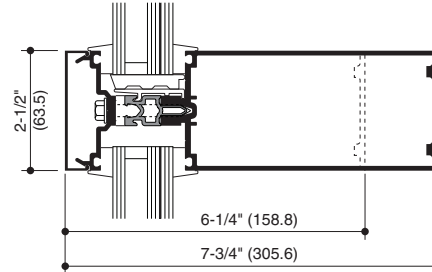
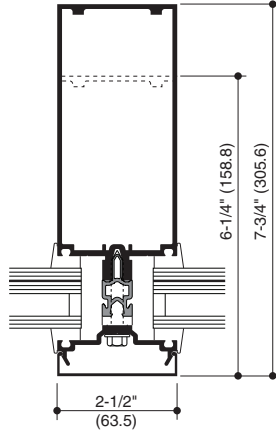
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

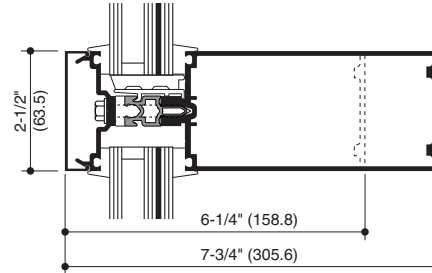
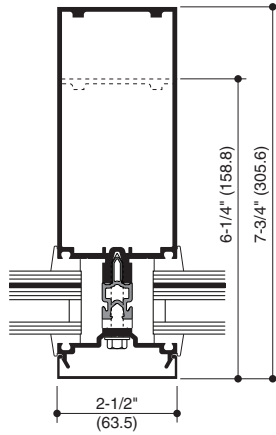
© 2013, Kawneer Company, Inc.

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

1-1/4" INFILL DETAILS



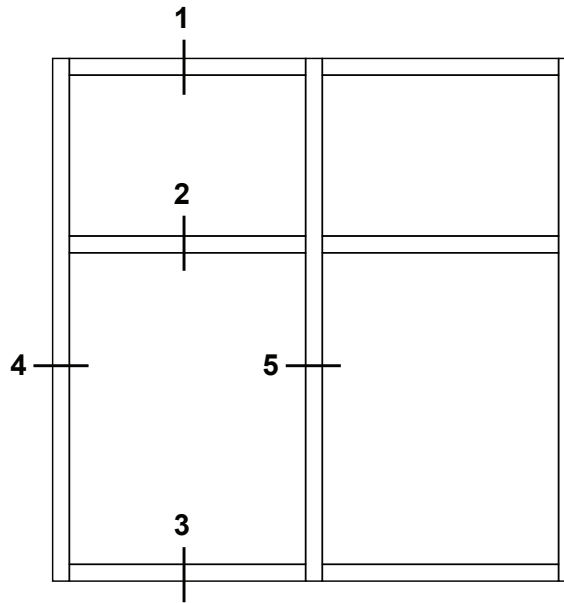
1-5/16" INFILL DETAILS



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.

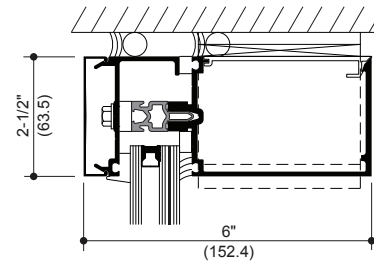
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

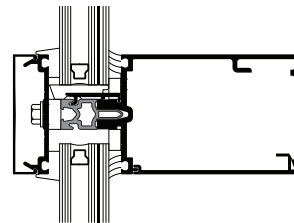


ELEVATION IS NUMBER KEYED TO DETAILS

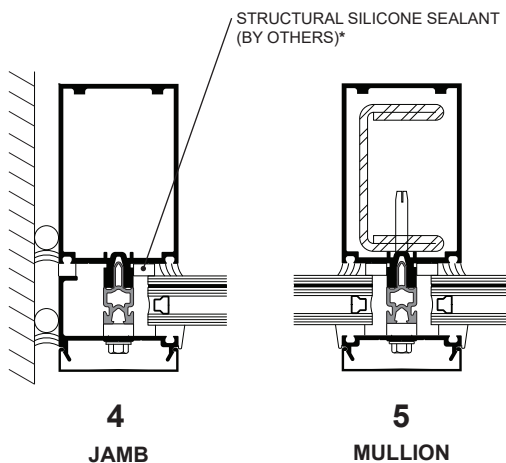
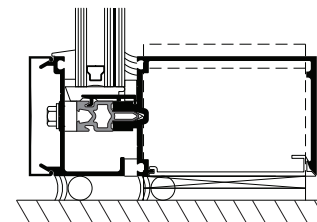
1
HEAD



2
HORIZONTAL



3
SILL

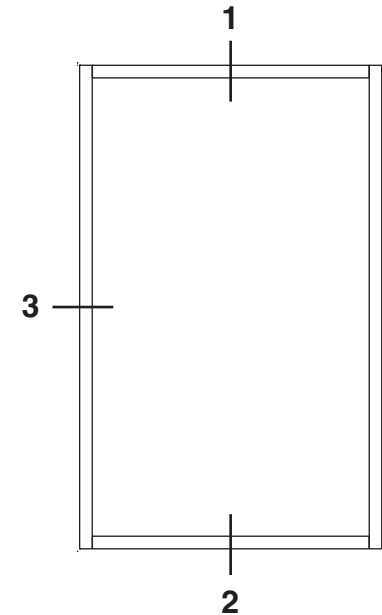


* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

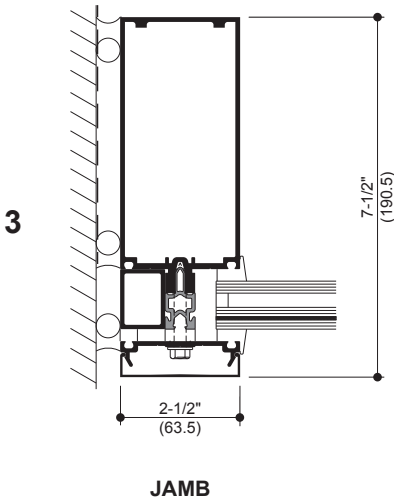
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

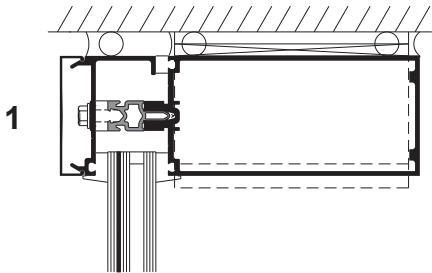
Additional information and CAD details are available at www.kawneer.com



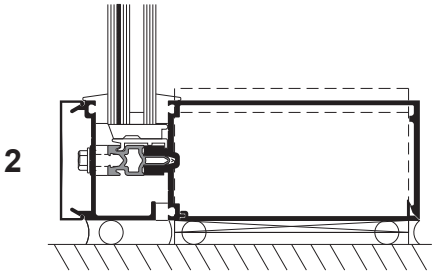
ELEVATION IS NUMBER KEYED TO DETAILS



JAMB



HEAD

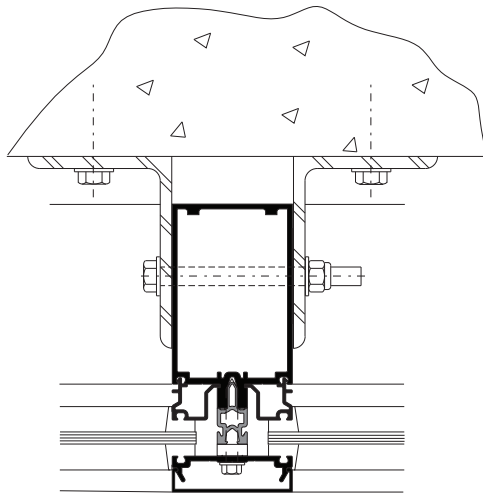


SILL

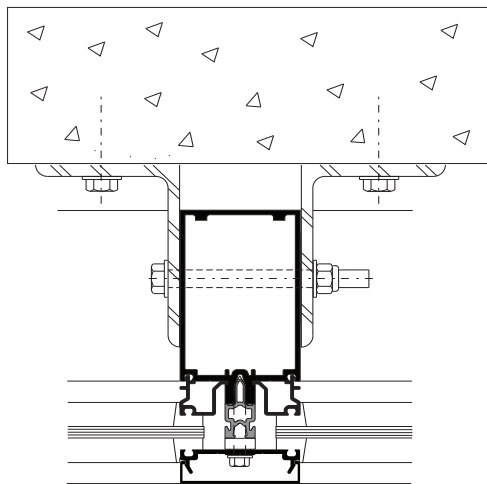
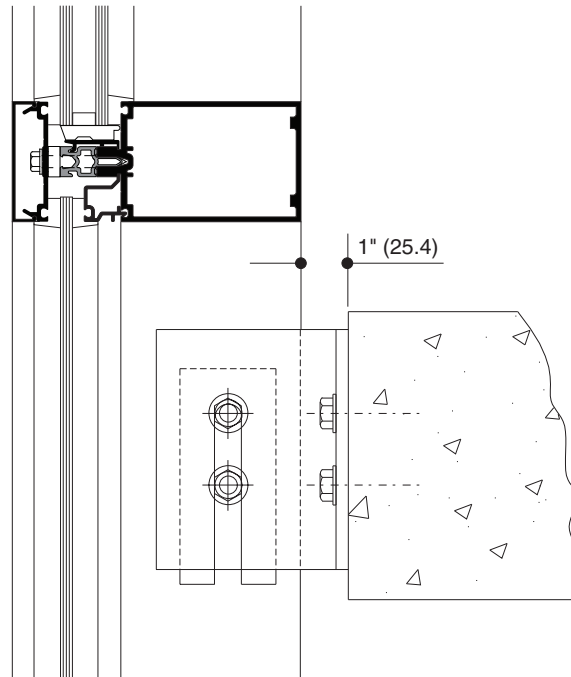
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

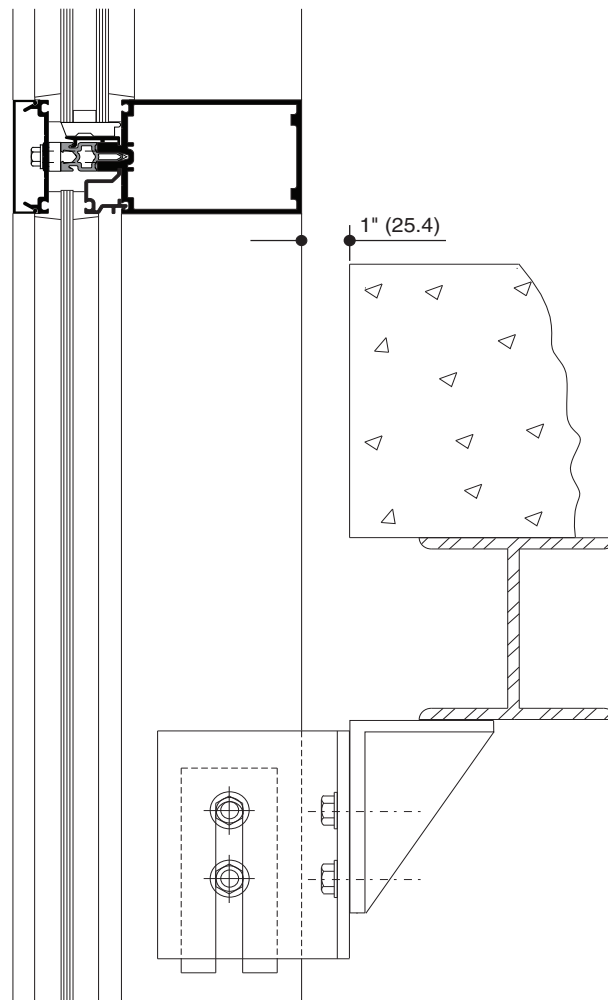
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



ANCHORING TO FLOOR SLAB



ANCHORING TO SUPPORT STEEL

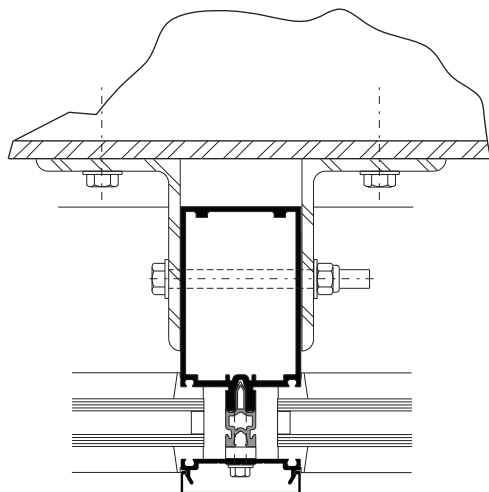


NOTE: 1-3/4" triple glazing similar.

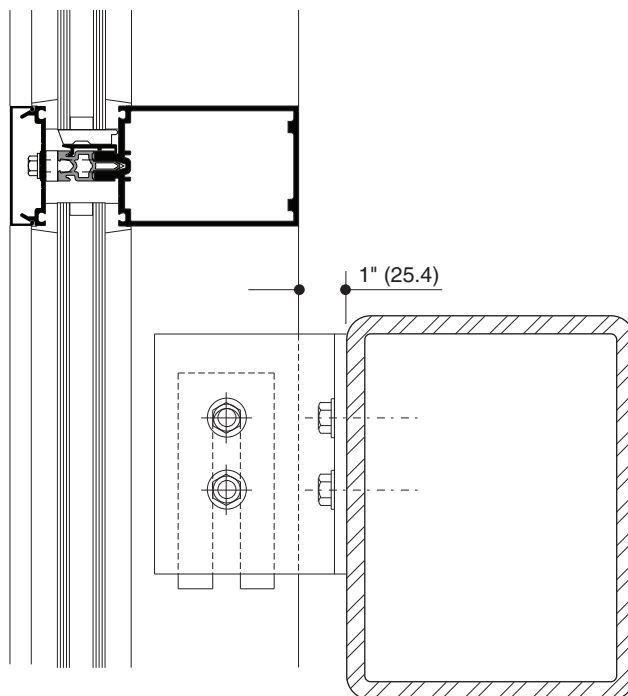
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

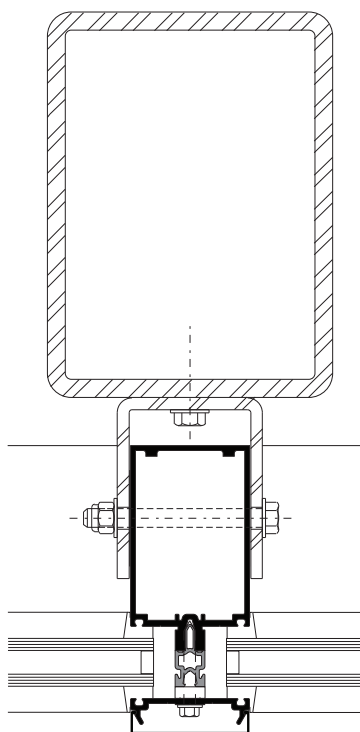
Actual project conditions will determine specific anchor design. Details on this page are for reference only.



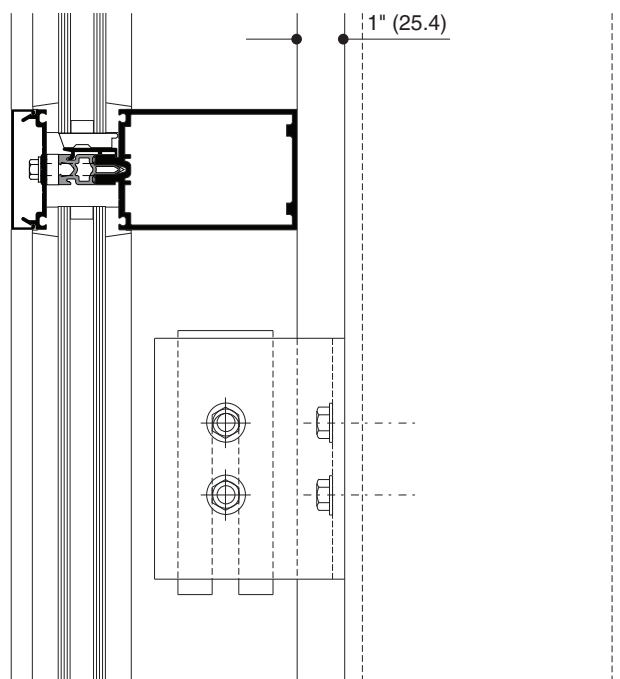
**ANCHORING TO HORIZONTAL
STRUCTURAL STEEL**



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



**ANCHORING TO VERTICAL
STRUCTURAL STEEL**



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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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.

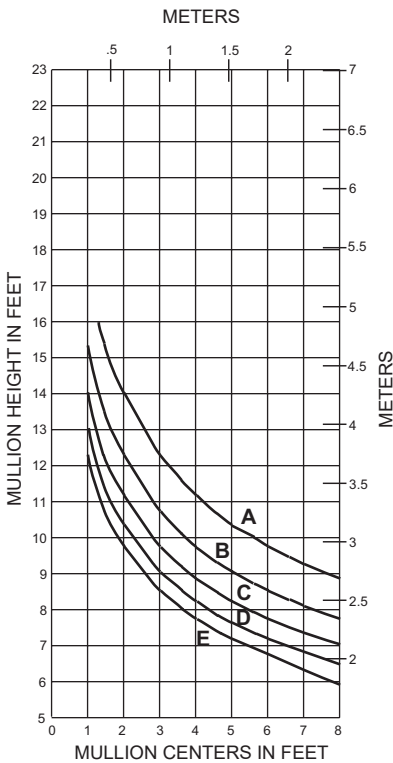
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

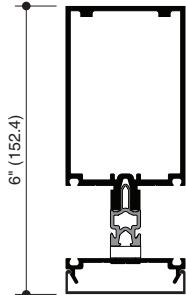
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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)

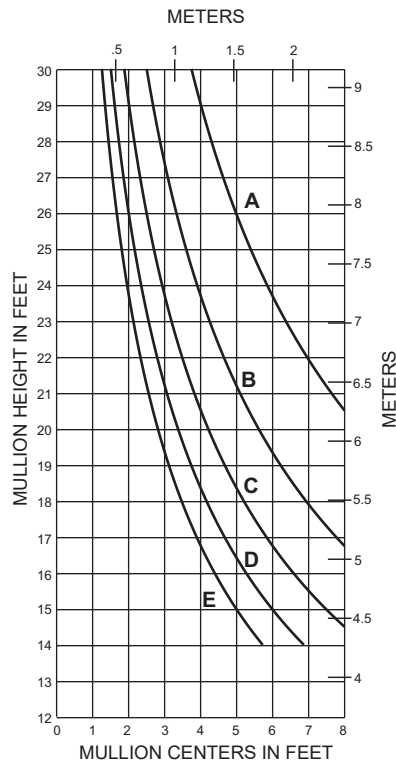


171213

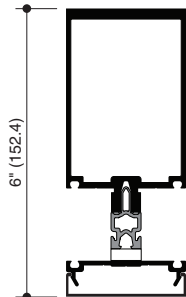
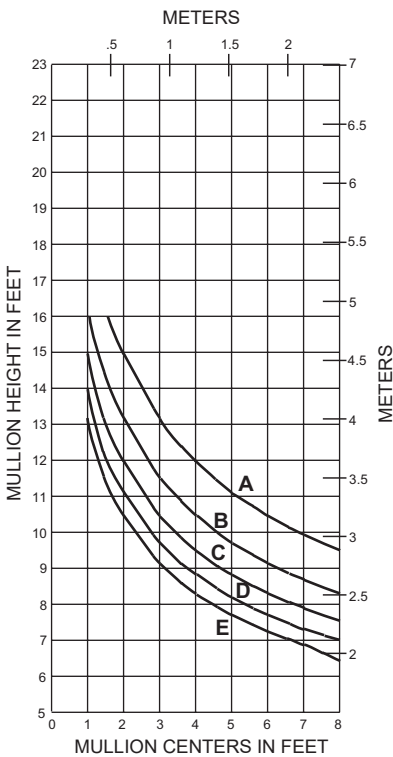
I = 3.662(152.42 x 10⁴)
S = 1.662(27.24 x 10³)



TWIN SPAN



SINGLE SPAN

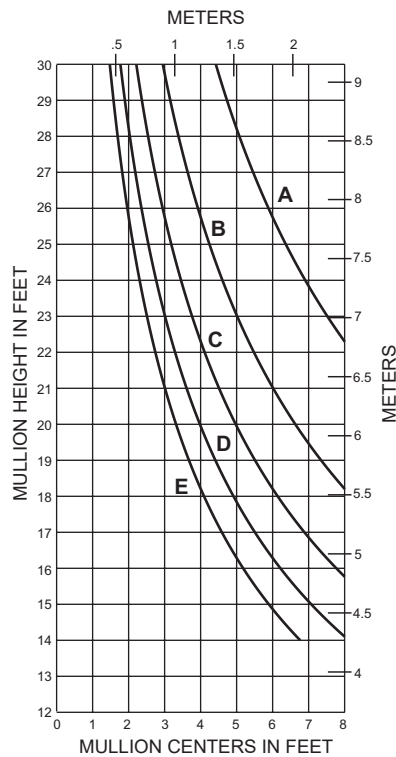


171214

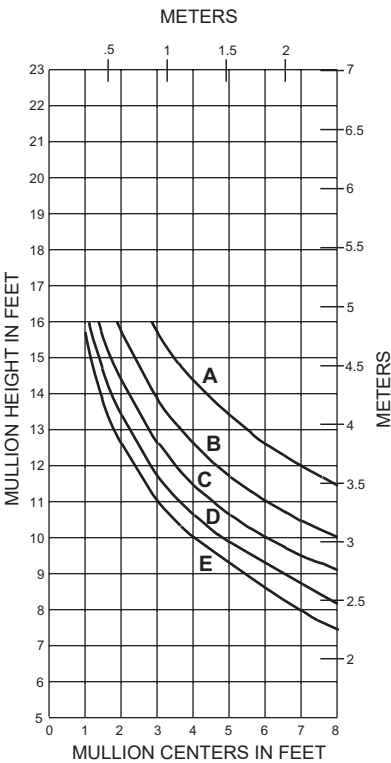
I = 4.5071(87.60 x 10⁴)
S = 1.968(32.25 x 10³)



TWIN SPAN

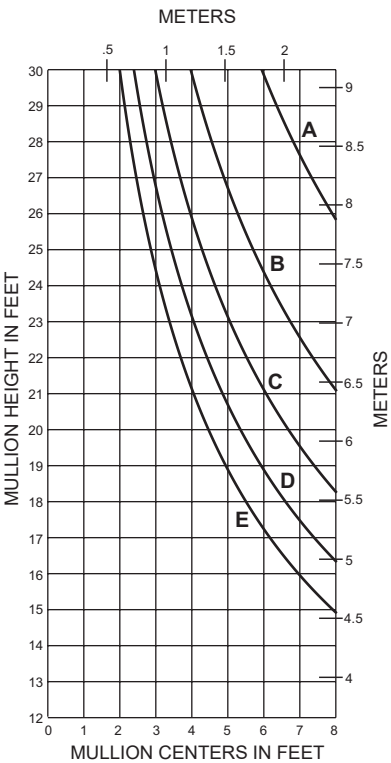


SINGLE SPAN



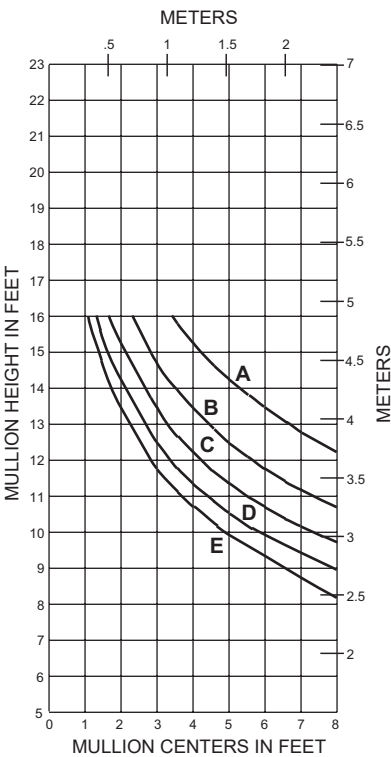
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

TWIN SPAN



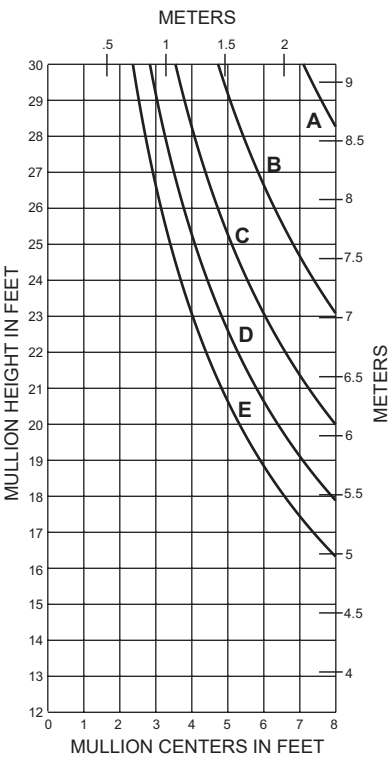
171215
 $I = 7.915(329.45 \times 10^6)$
 $S = 2.635(43.18 \times 10^3)$

SINGLE SPAN



171216
 $I = 9.594(399.33 \times 10^6)$
 $S = 3.163(51.83 \times 10^3)$

TWIN SPAN



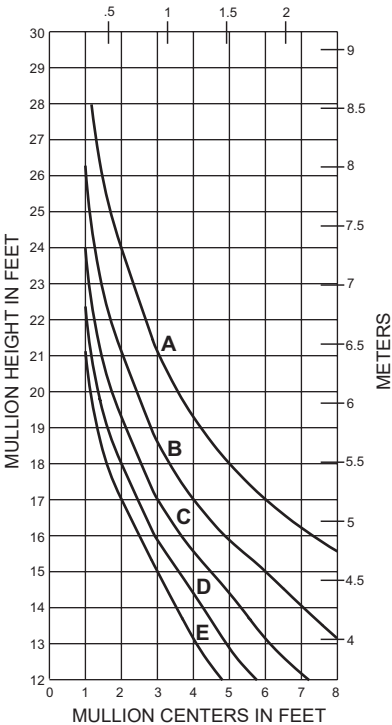
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

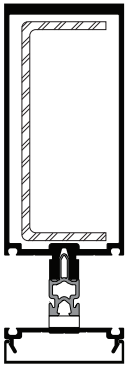
SINGLE SPAN

162016 W/162300

METERS

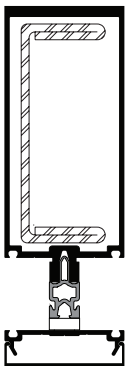


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



171216
W/162300

Ia = 9.594(399.33 x 10⁴)
Sa = 3.163(51.83 x 10³)
Is = 3.805(158.37 x 10⁴)
Ss = 1.669(27.35 x 10³)



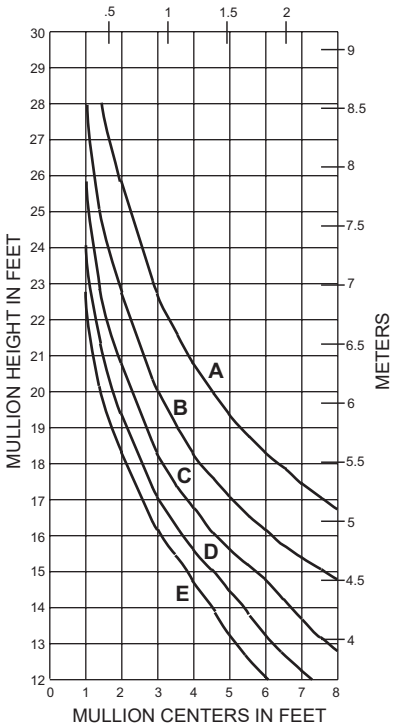
171216
W/162301

Ia = 9.594(399.33 x 10⁴)
Sa = 3.163(51.83 x 10³)
Is = 5.684(236.59 x 10⁴)
Ss = 2.493(40.85 x 10³)

SINGLE SPAN

162016 W/162301

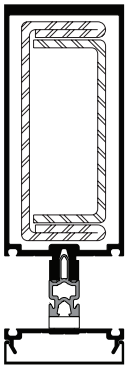
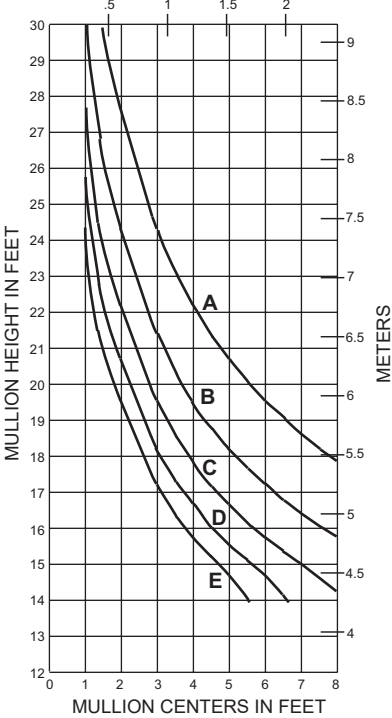
METERS



SINGLE SPAN

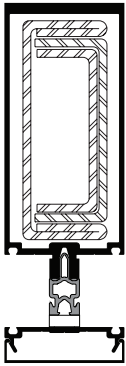
162016 W/162301/302

METERS



171216
W/162301/302

Ia = 9.594(399.33 x 10⁴)
Sa = 3.163(51.83 x 10³)
Is = 7.893(328.53 x 10⁴)
Ss = 3.462(56.73 x 10³)



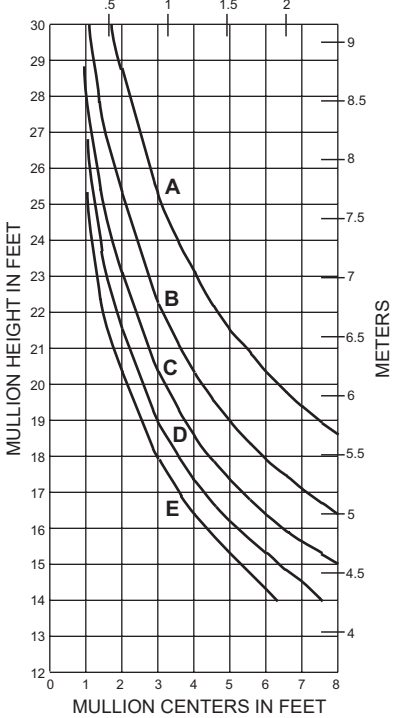
171216
W/162301/302/303

Ia = 9.594(399.33 x 10⁴)
Sa = 3.163(51.83 x 10³)
Is = 9.347(389.05 x 10⁴)
Ss = 4.100(67.19 x 10³)

SINGLE SPAN

162016 W/162301/302/303

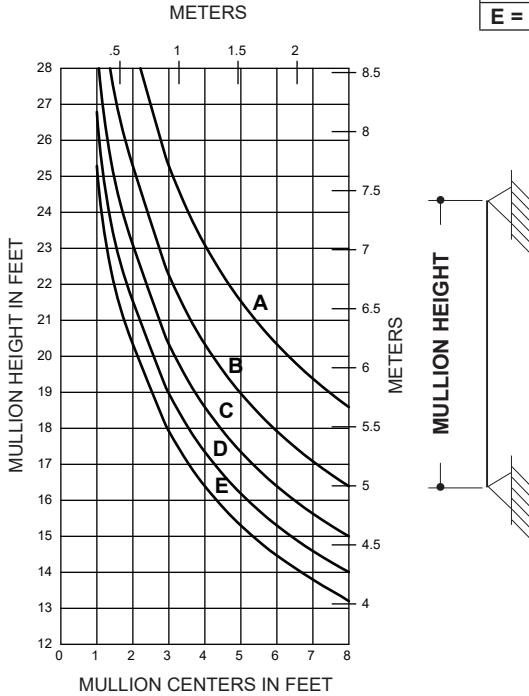
METERS



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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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)



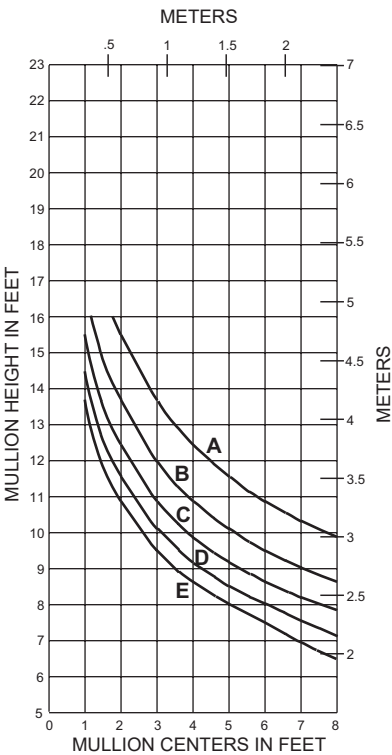
171266

I = 36.451(1517.20 x 10⁴)
S = 8.279(135.67 x 10³)

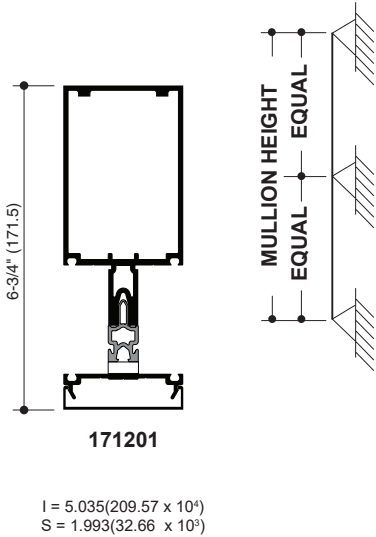
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

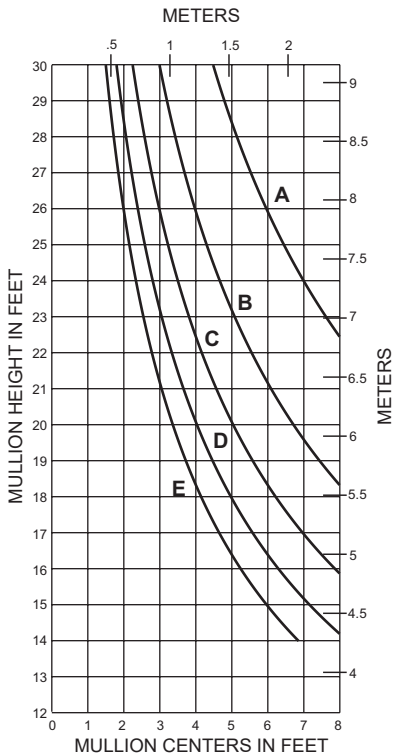
SINGLE SPAN



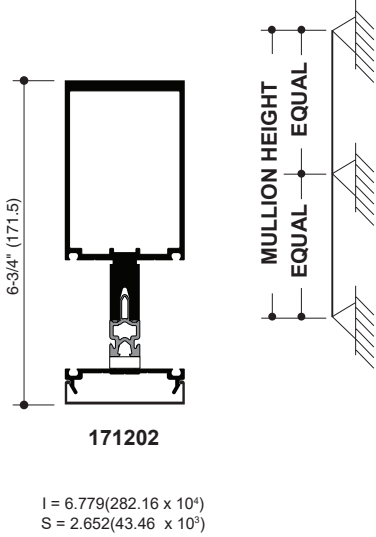
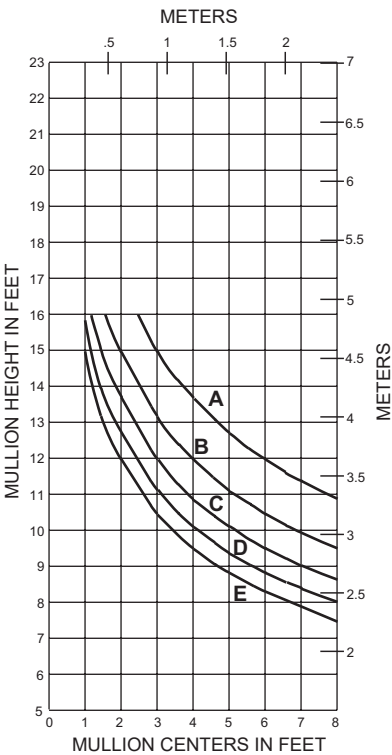
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



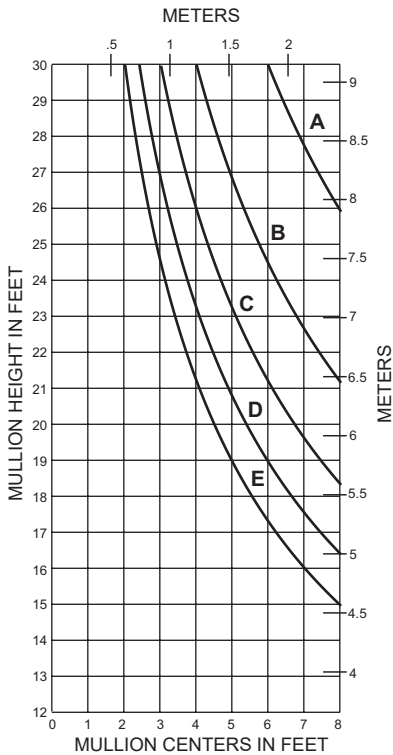
TWIN SPAN



SINGLE SPAN



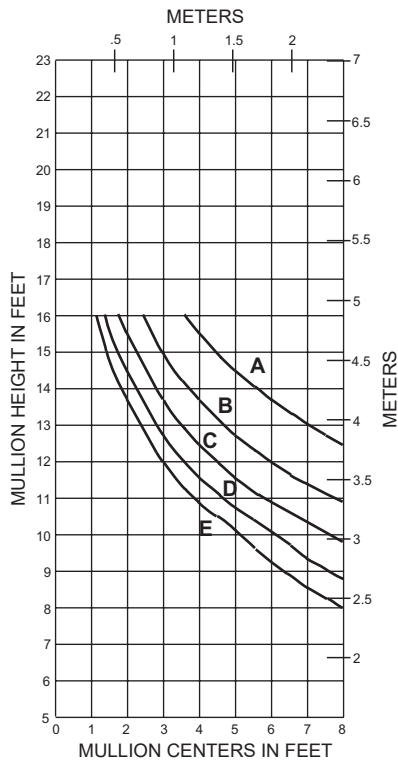
TWIN SPAN



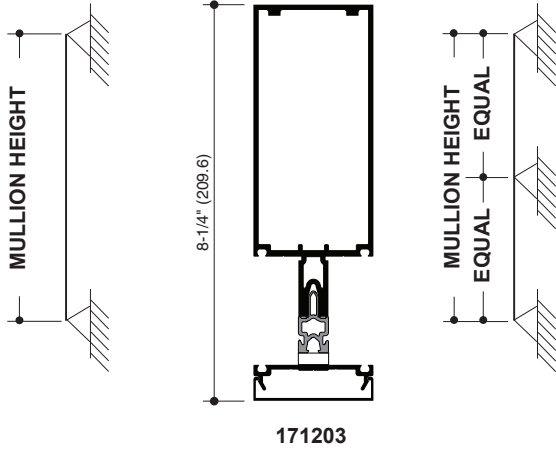
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

SINGLE SPAN

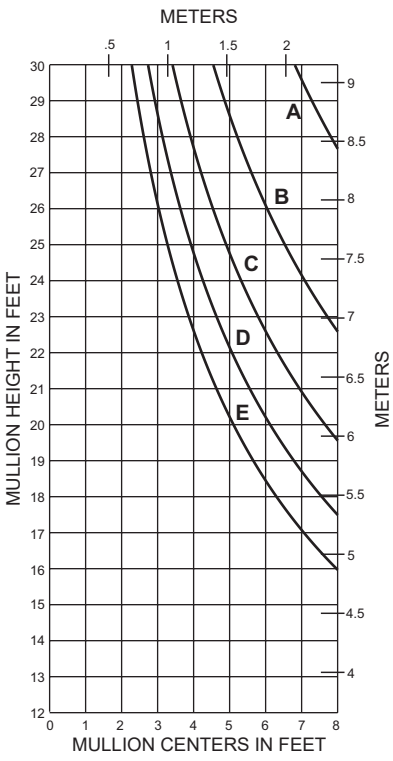


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)

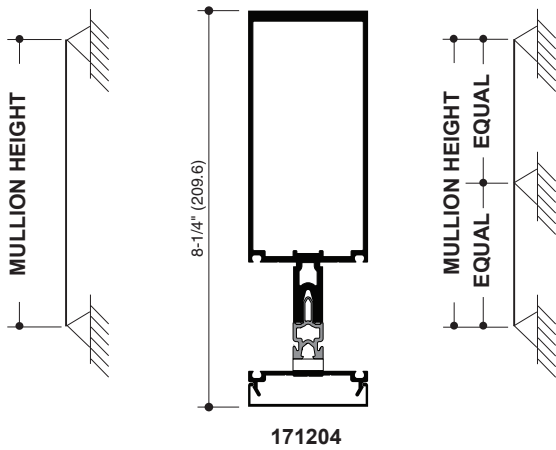
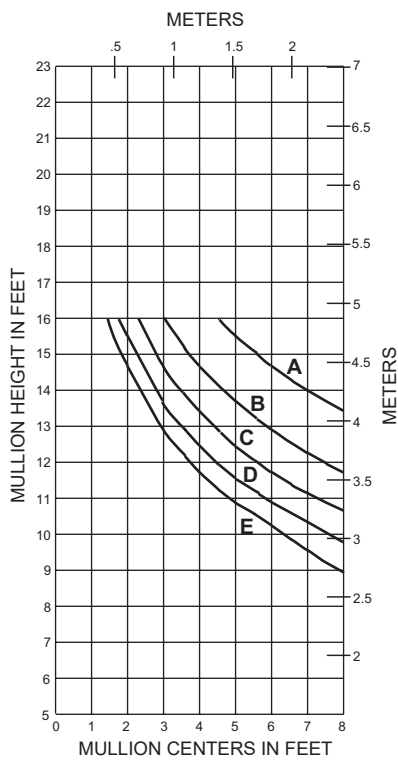


I = 10.135(421.85 x 10⁴)
S = 3.027(49.60 x 10³)

TWIN SPAN

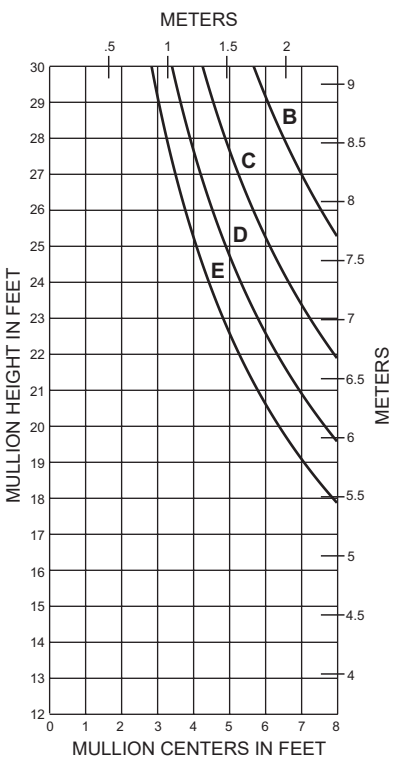


SINGLE SPAN



I = 12.736(530.11 x 10⁴)
S = 3.791(62.12 x 10³)

TWIN SPAN

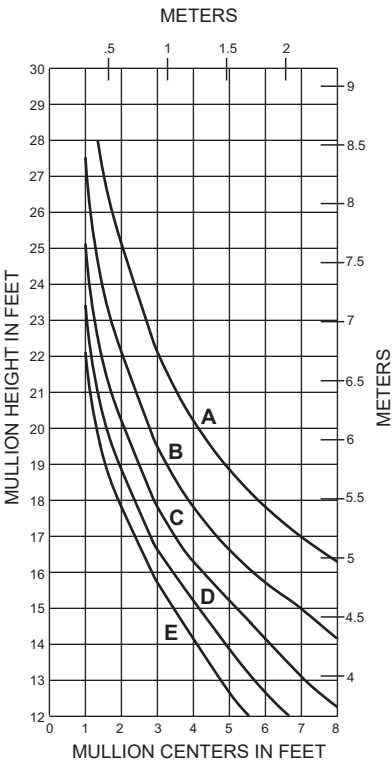


Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

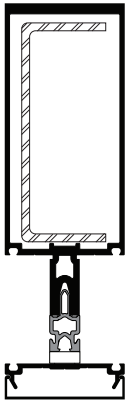
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

SINGLE SPAN

162004 W/162300

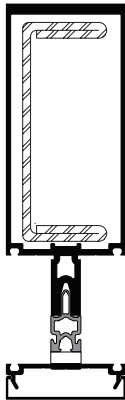


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	60 PSF (2880)	100 PSF (4790)



171204
W/162300

Ia = 12.736(530.11 x 10⁴)
Sa = 3.791(62.12 x 10³)
Is = 3.805(158.37 x 10⁴)
Ss = 1.669(27.35 x 10³)

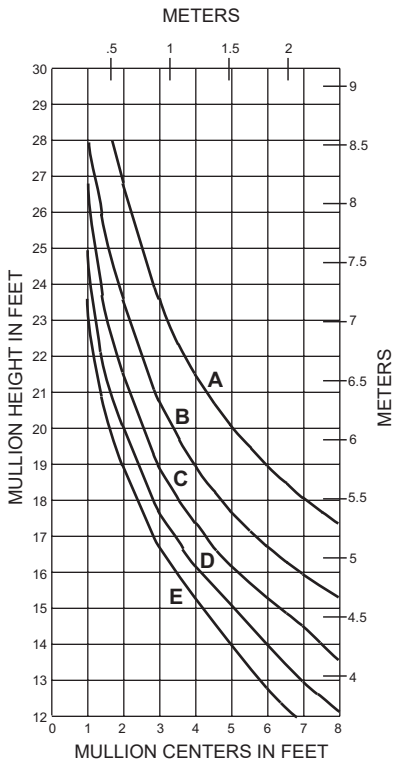


171204
W/162301

Ia = 12.736(530.11 x 10⁴)
Sa = 3.791(62.12 x 10³)
Is = 5.684(236.59 x 10⁴)
Ss = 2.493(40.85 x 10³)

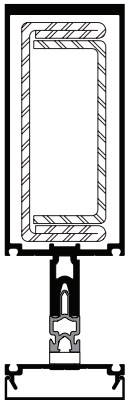
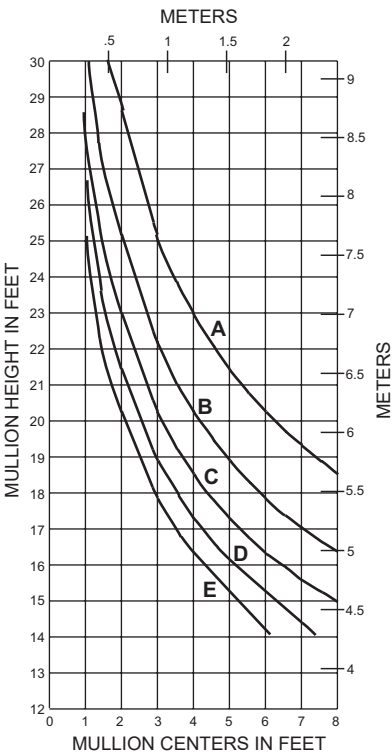
SINGLE SPAN

162004 W/162301



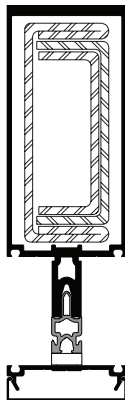
SINGLE SPAN

162004 W/162301/302



171204
W/162301/302

Ia = 12.736(530.11 x 10⁴)
Sa = 3.791(62.12 x 10³)
Is = 7.893(328.53 x 10⁴)
Ss = 3.462(56.73 x 10³)

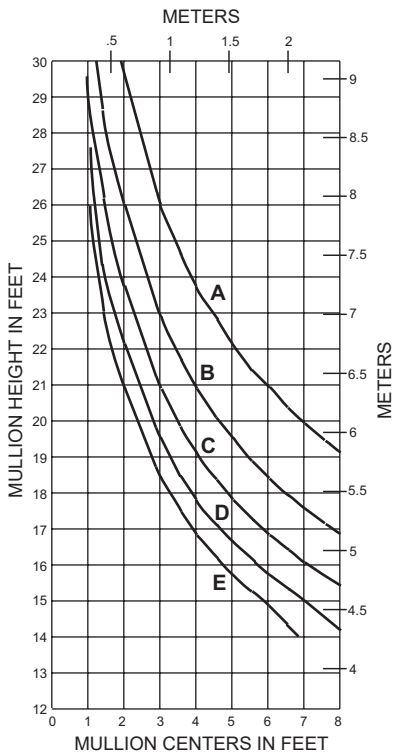


171204
W/162301/302/303

Ia = 12.736(530.11 x 10⁴)
Sa = 3.791(62.12 x 10³)
Is = 9.347(389.05 x 10⁴)
Ss = 4.100(67.19 x 10³)

SINGLE SPAN

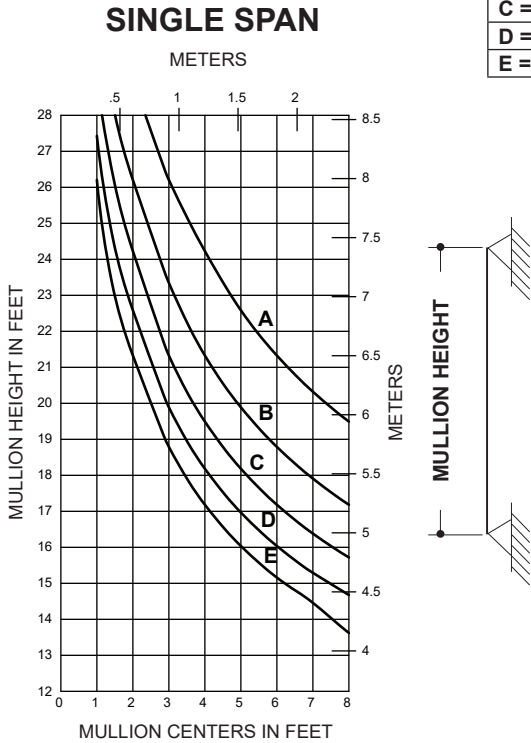
162004 W/162301/302/303



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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

	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)



171264

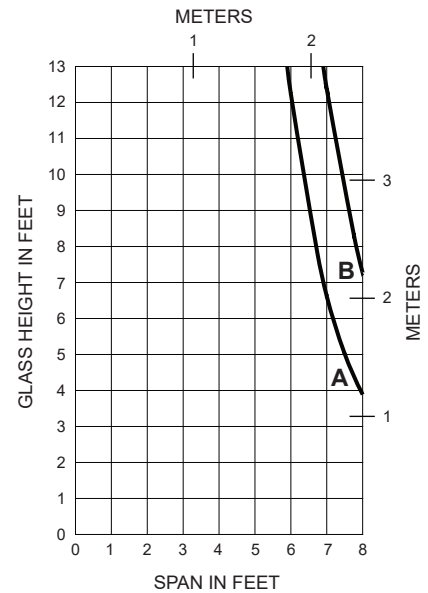
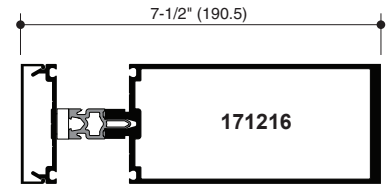
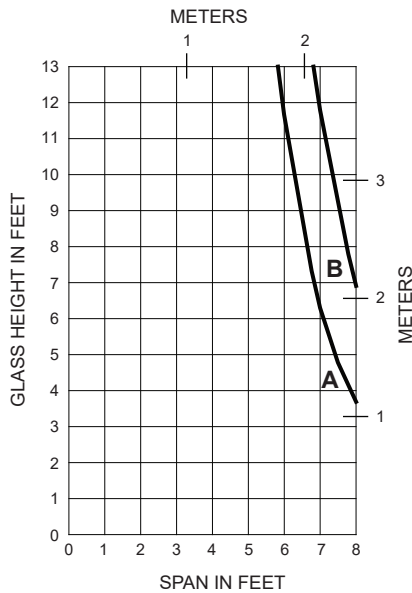
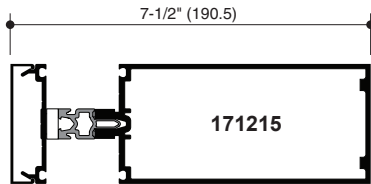
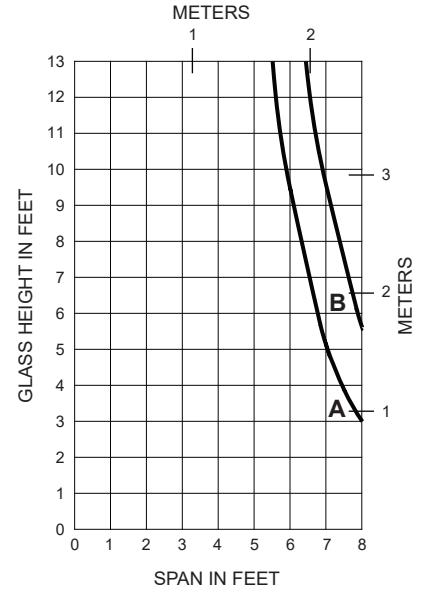
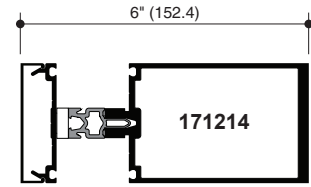
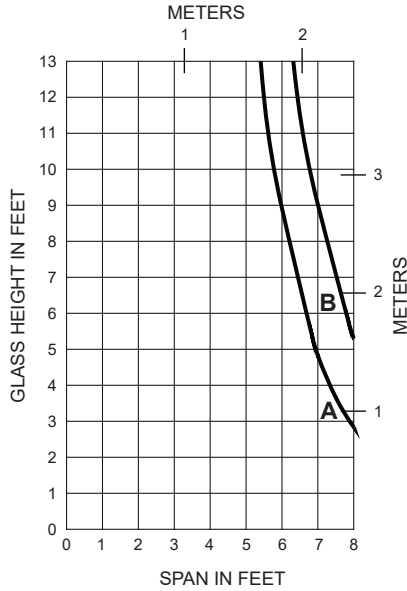
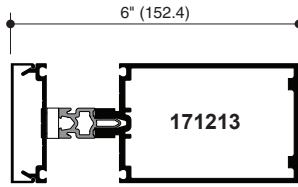
I = 42.441(1766.52 x 10⁴)
S = 8.816(144.47 x 10³)

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

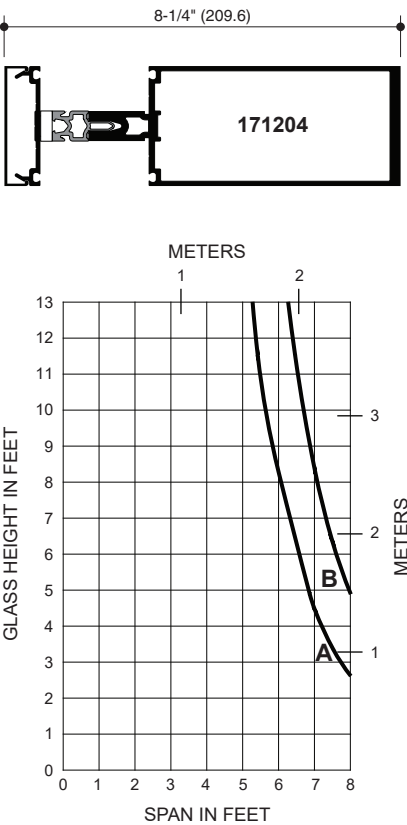
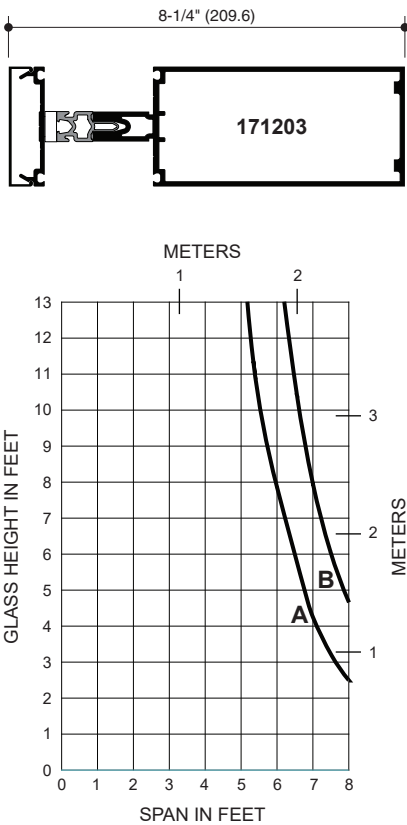
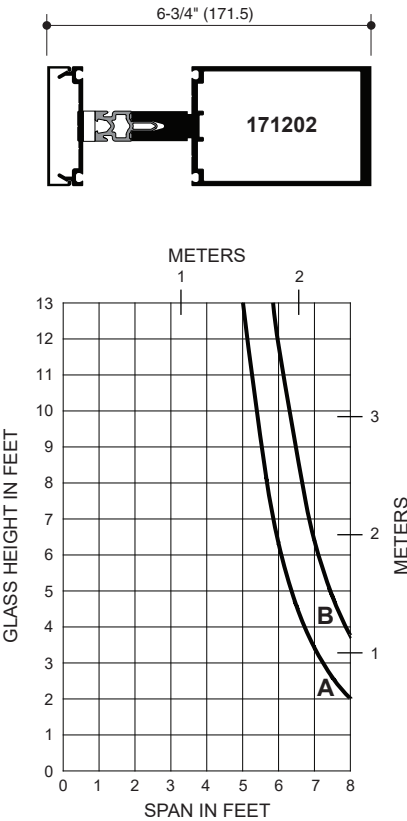
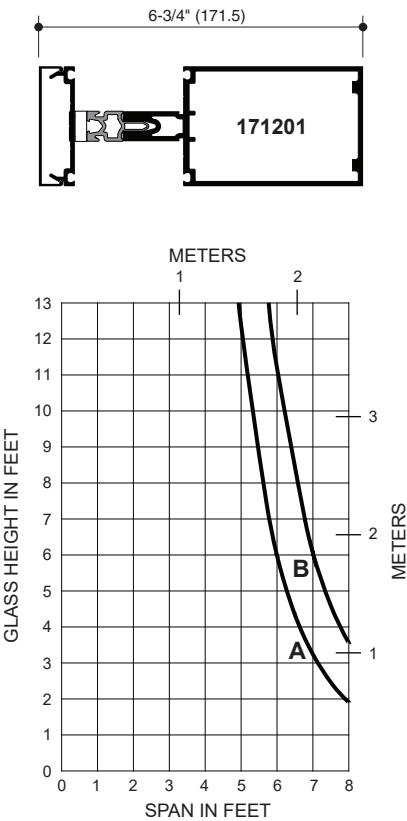
B - 1" GLASS (1/8 POINT LOADING)



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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

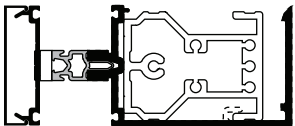
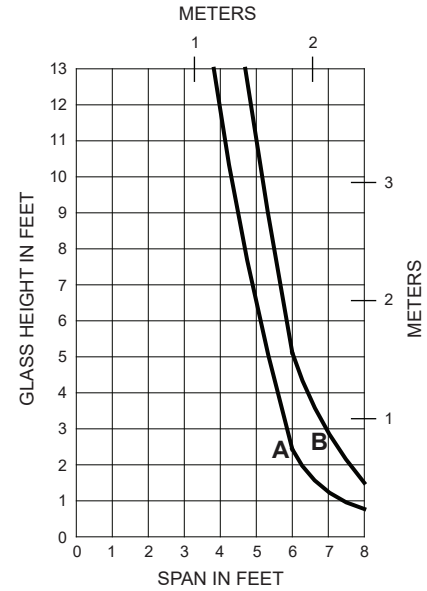
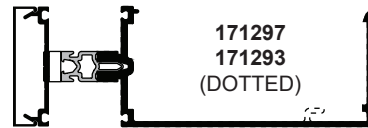
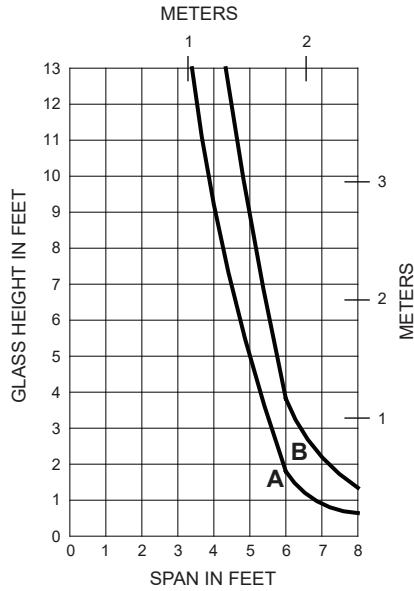
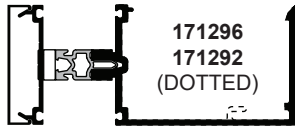
A - 1-3/4" GLASS (1/4 POINT LOADING)
B - 1-3/4" GLASS (1/8 POINT LOADING)



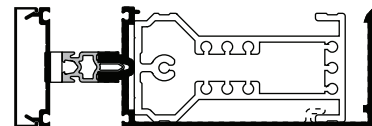
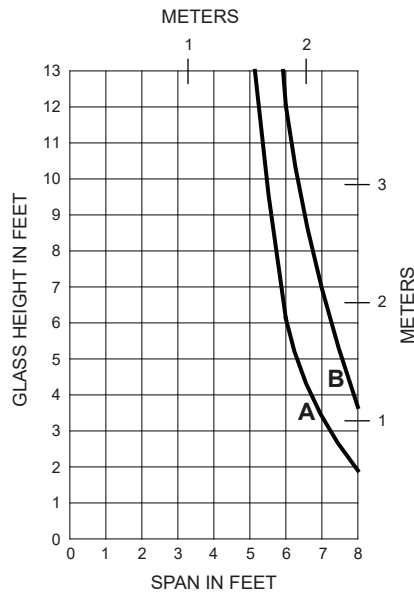
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

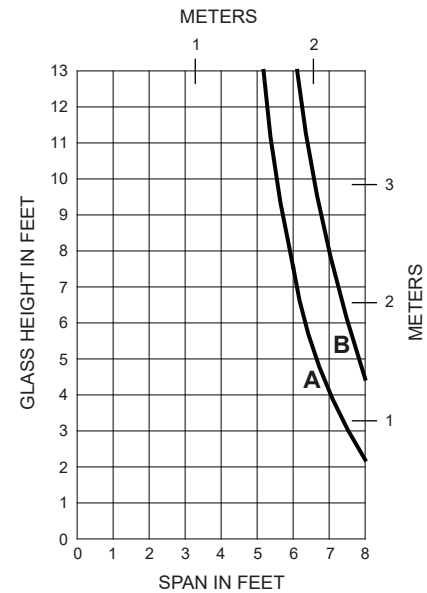
A - 1" GLASS (1/4 POINT LOADING)
B - 1" GLASS (1/8 POINT LOADING)



171296
171292
(DOTTED)
171077
REINF.



171297
171293
(DOTTED)
171078
REINF.

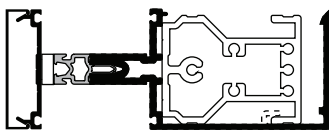
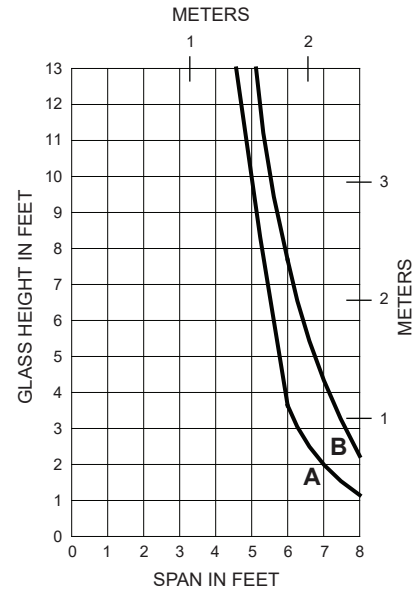
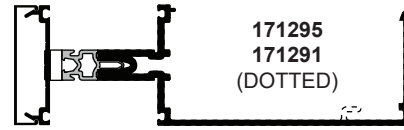
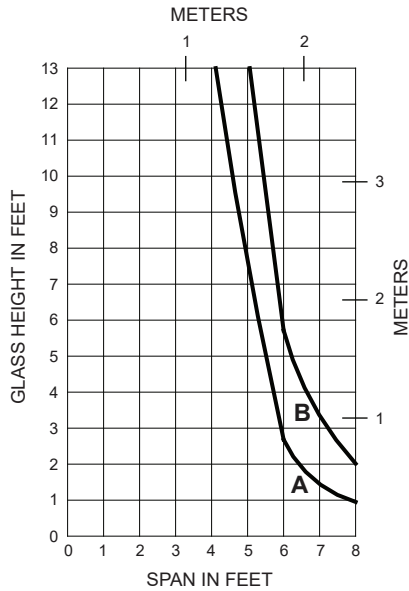
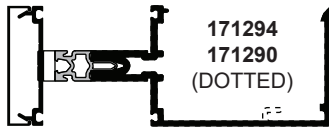


Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

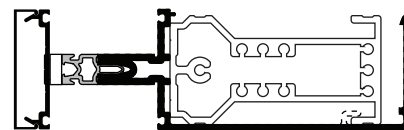
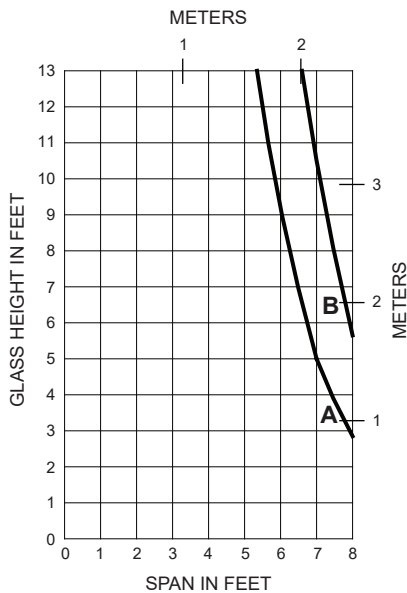
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

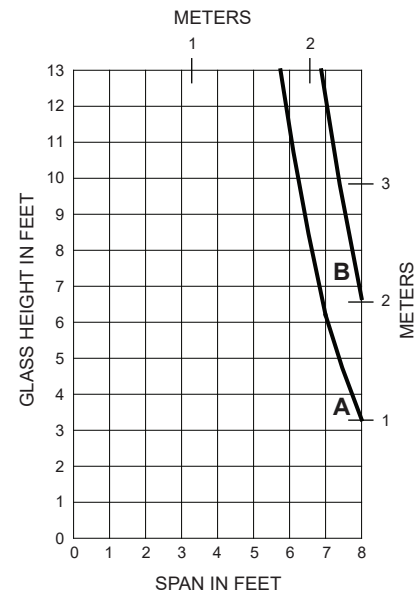
B - 1" GLASS (1/8 POINT LOADING)



171294
171290
(DOTTED)
171077
REINF.



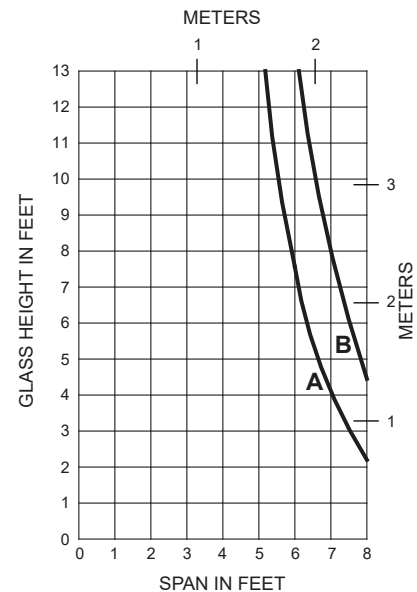
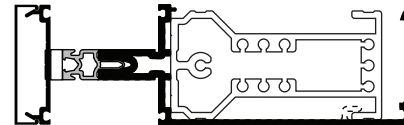
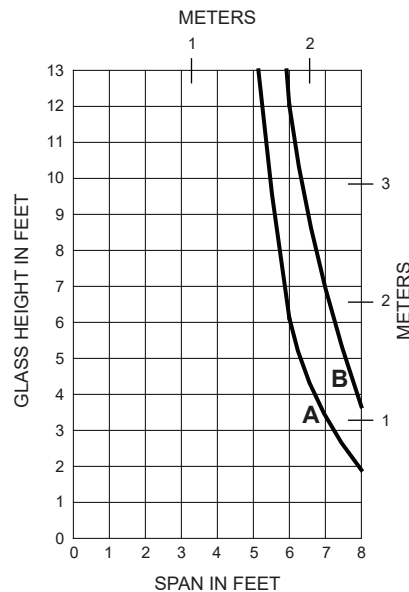
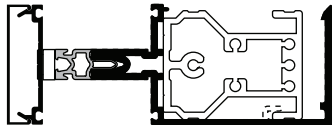
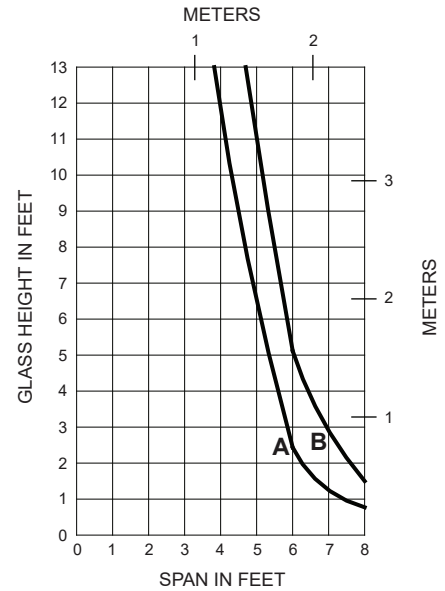
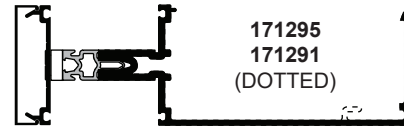
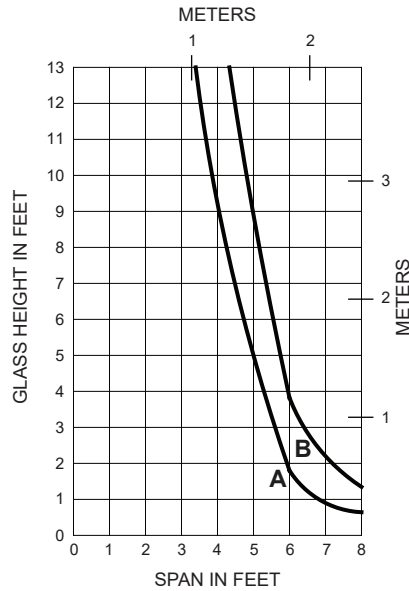
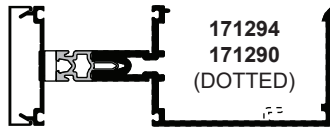
171295
171291
(DOTTED)
171078
REINF.



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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

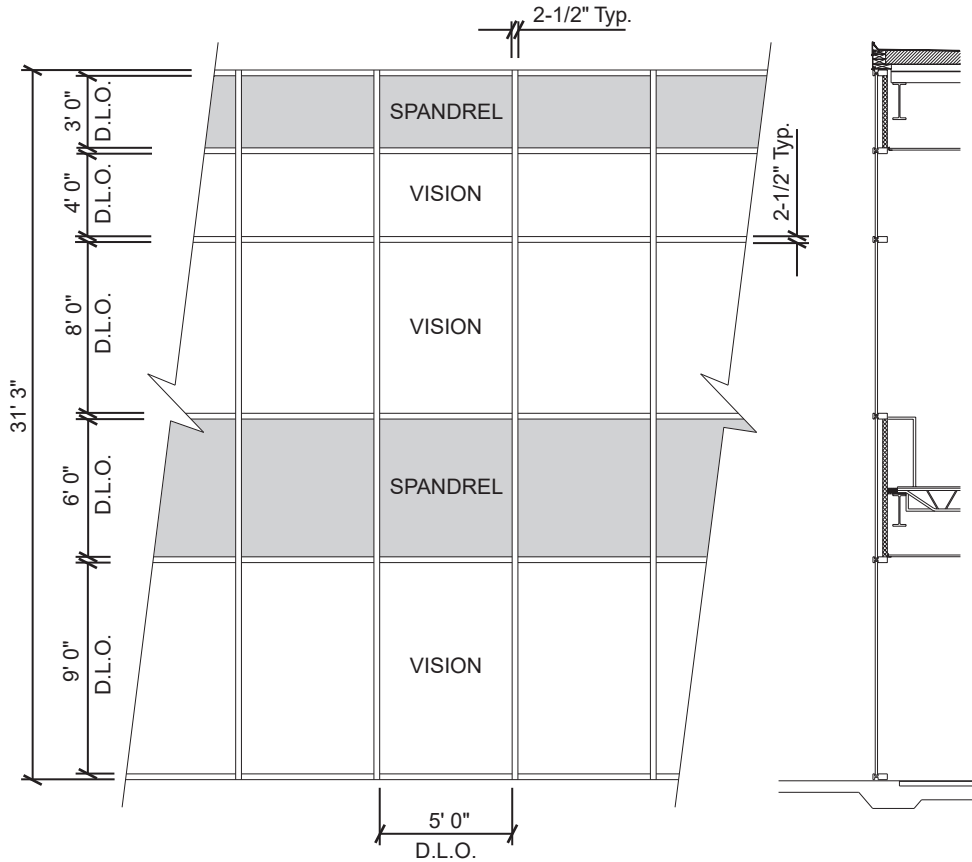
A - 1-3/4" GLASS (1/4 POINT LOADING)
B - 1-3/4" GLASS (1/8 POINT LOADING)



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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
 © 2013, Kawneer Company, Inc.

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

Spandrel Area

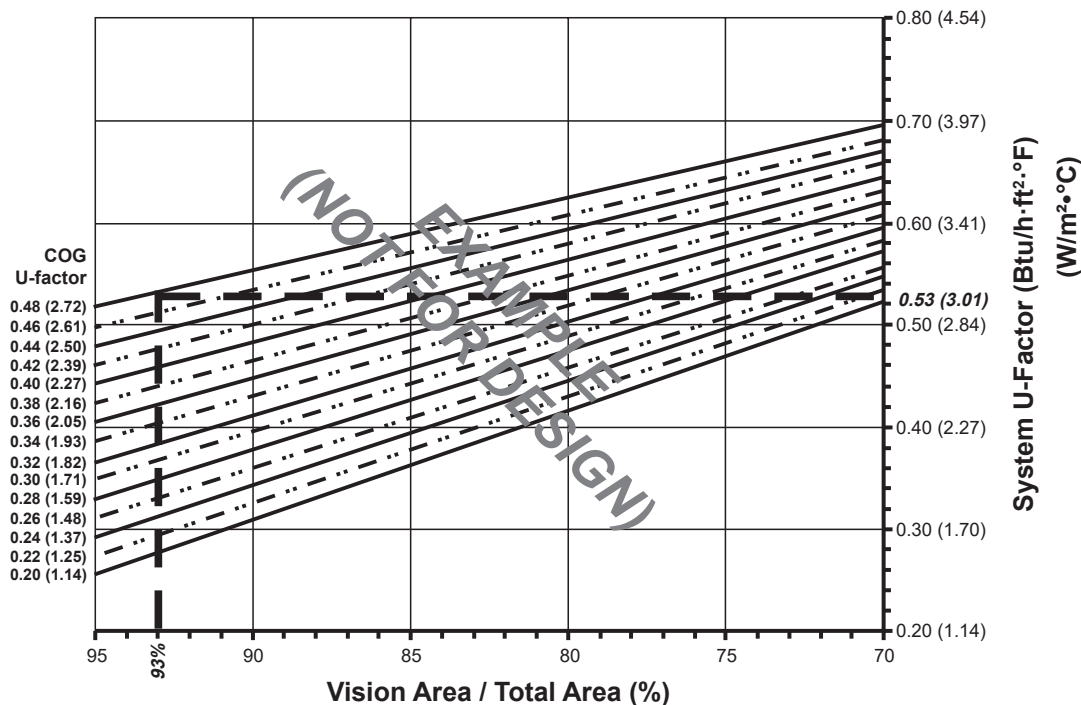
Example Spandrel R-value	= 15 (ft ² · h · °F)/Btu
Spandrel Area	= 5(6 + 3) = 45.0 ft ²
Total Area (Spandrel)	= 5' 2-1/2" (6' 2-1/2" + 3' 3-3/4") = 49.6 ft ²
Percent of Spandrel	= (Spandrel Area ÷ Total Area)100 = (45.0 ÷ 49.6)100 = 91%

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
 © 2013, Kawneer Company, Inc.

Vision Area Chart

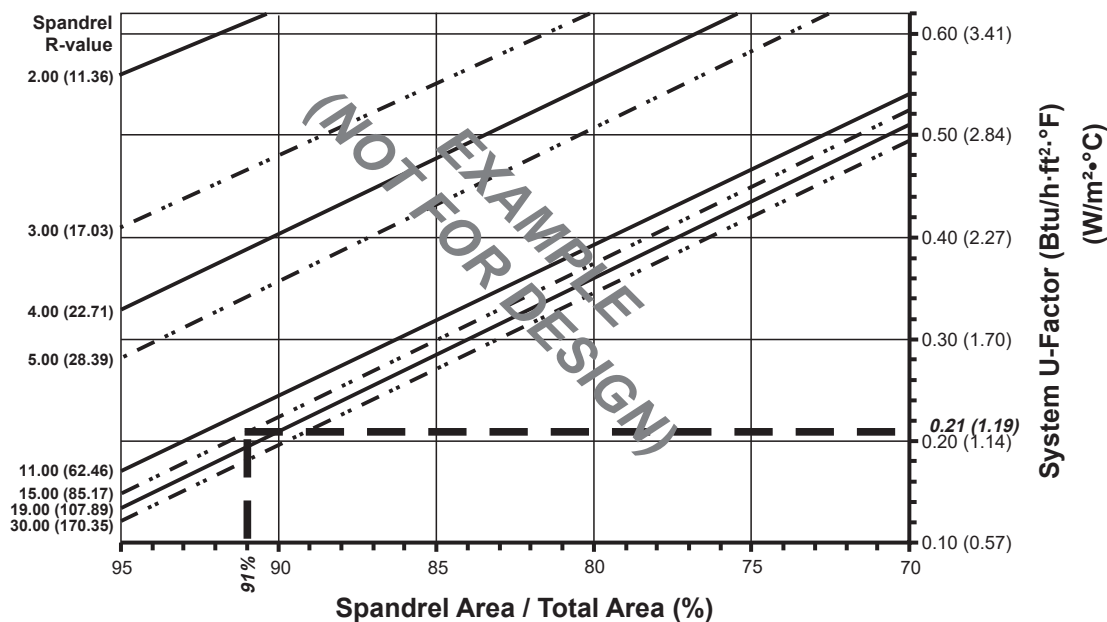
System U-factor vs Percent of Vision Area



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)

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

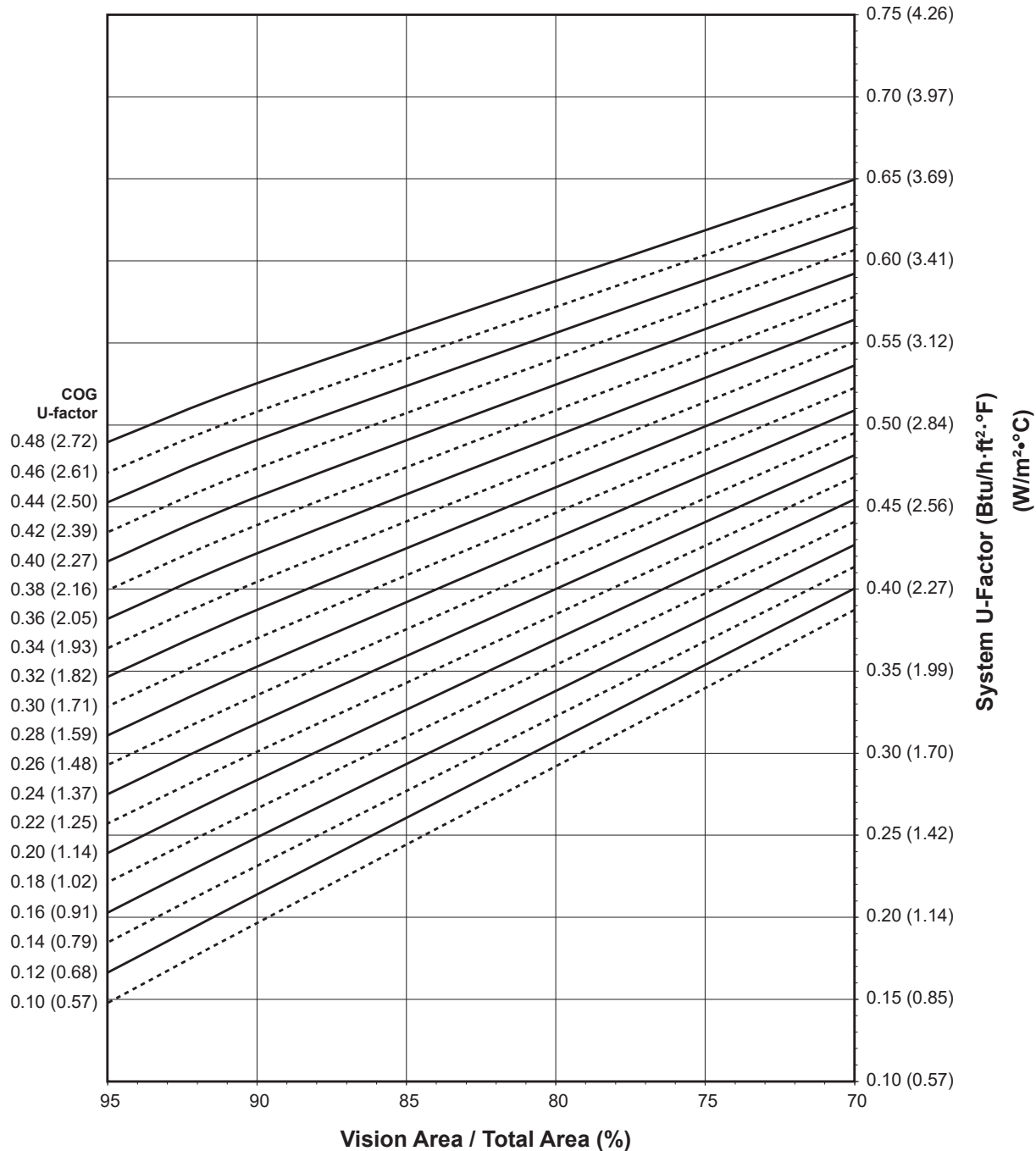
Note:

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

Aluminum Pressure Plate 1/4" Single Glazed

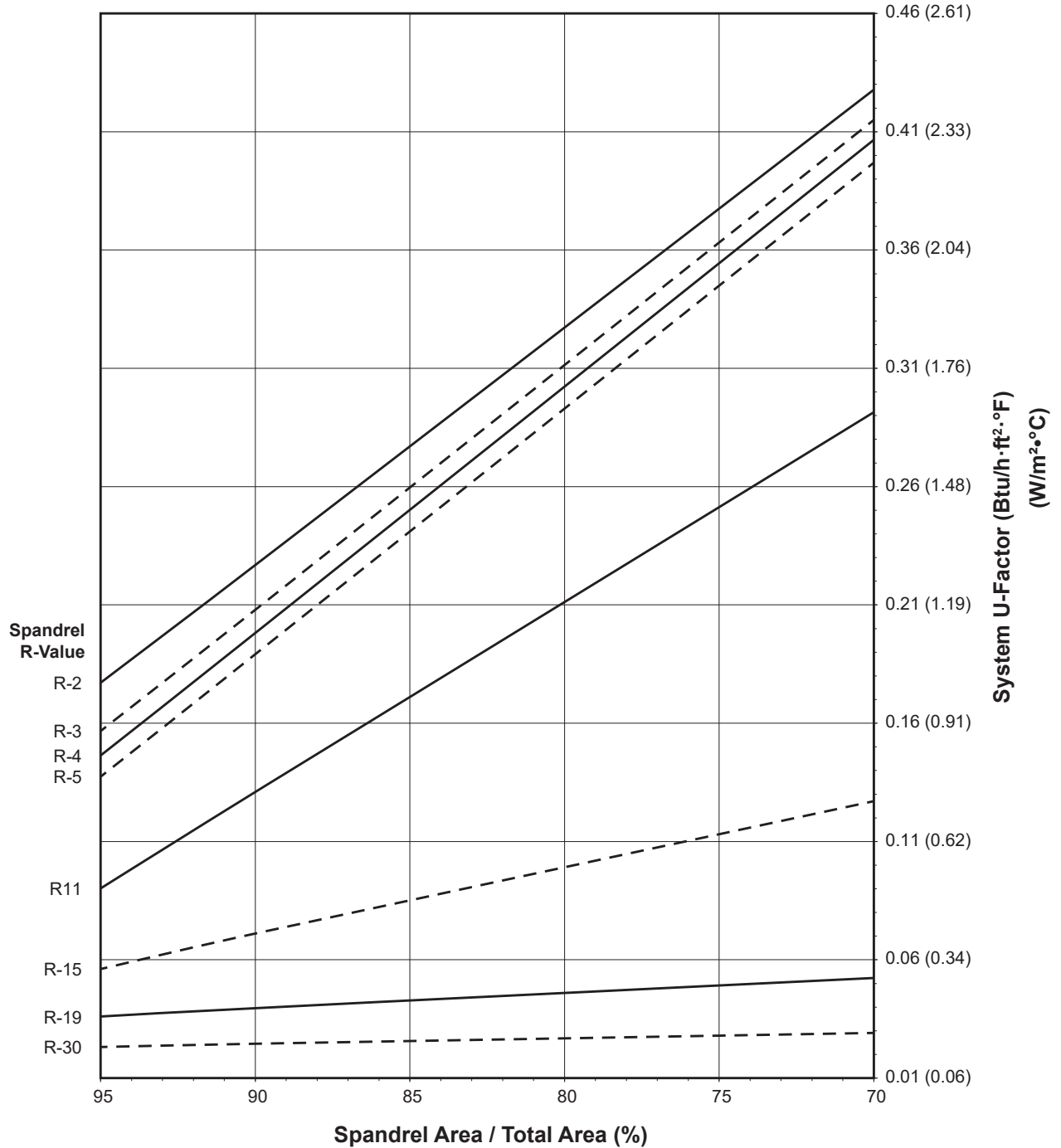
Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AAMA 507

System U-Factor for Spandrel Glass



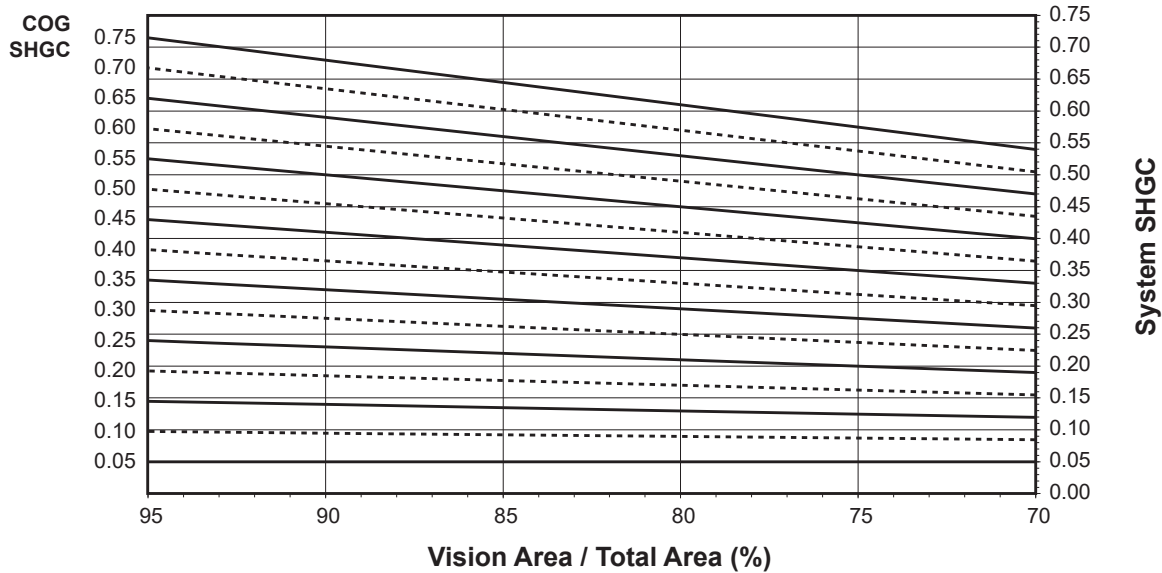
Notes for System U-Factor, SHGC and VT charts:

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

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

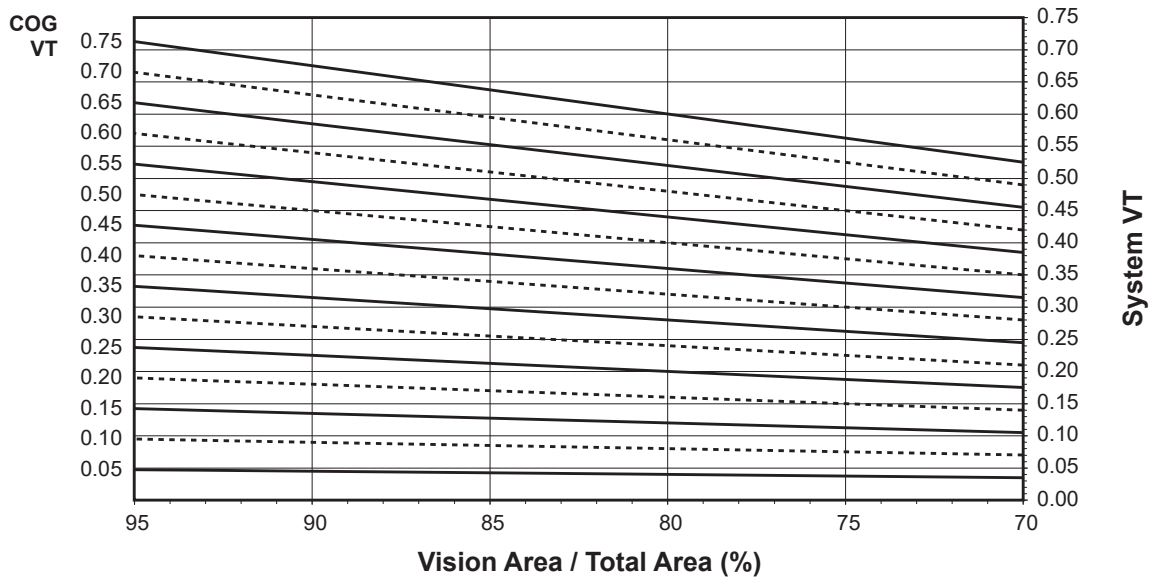
**Aluminum Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer**

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.53
0.46	0.51
0.44	0.49
0.42	0.48
0.40	0.46
0.38	0.44
0.36	0.42
0.34	0.41
0.32	0.39
0.30	0.37
0.28	0.36
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

**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 Matrices are based on the standard NFRC specimen size of 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

SHGC Matrix ²

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

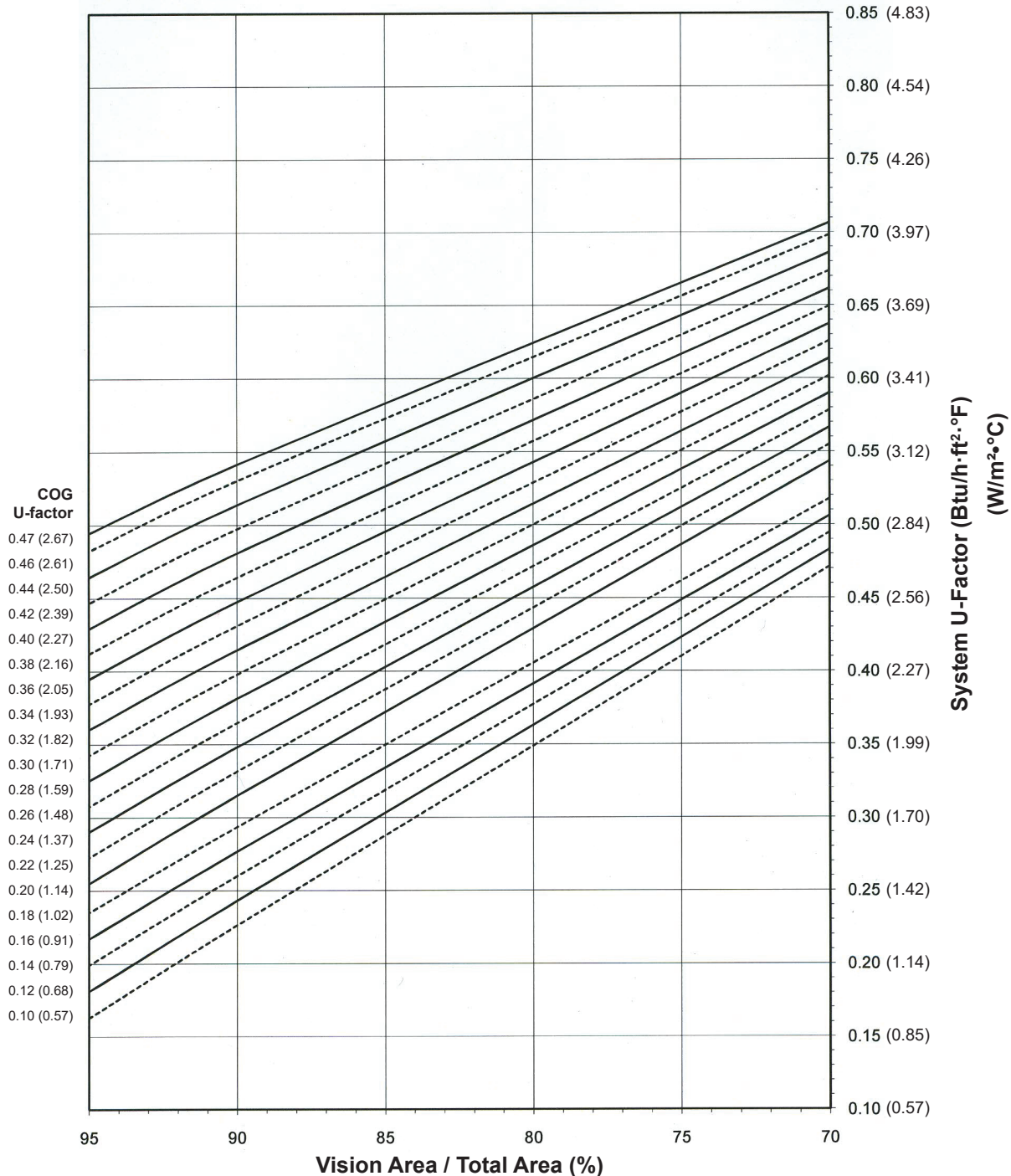
Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.75	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.31
0.30	0.27
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
0.05	0.04

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.

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.

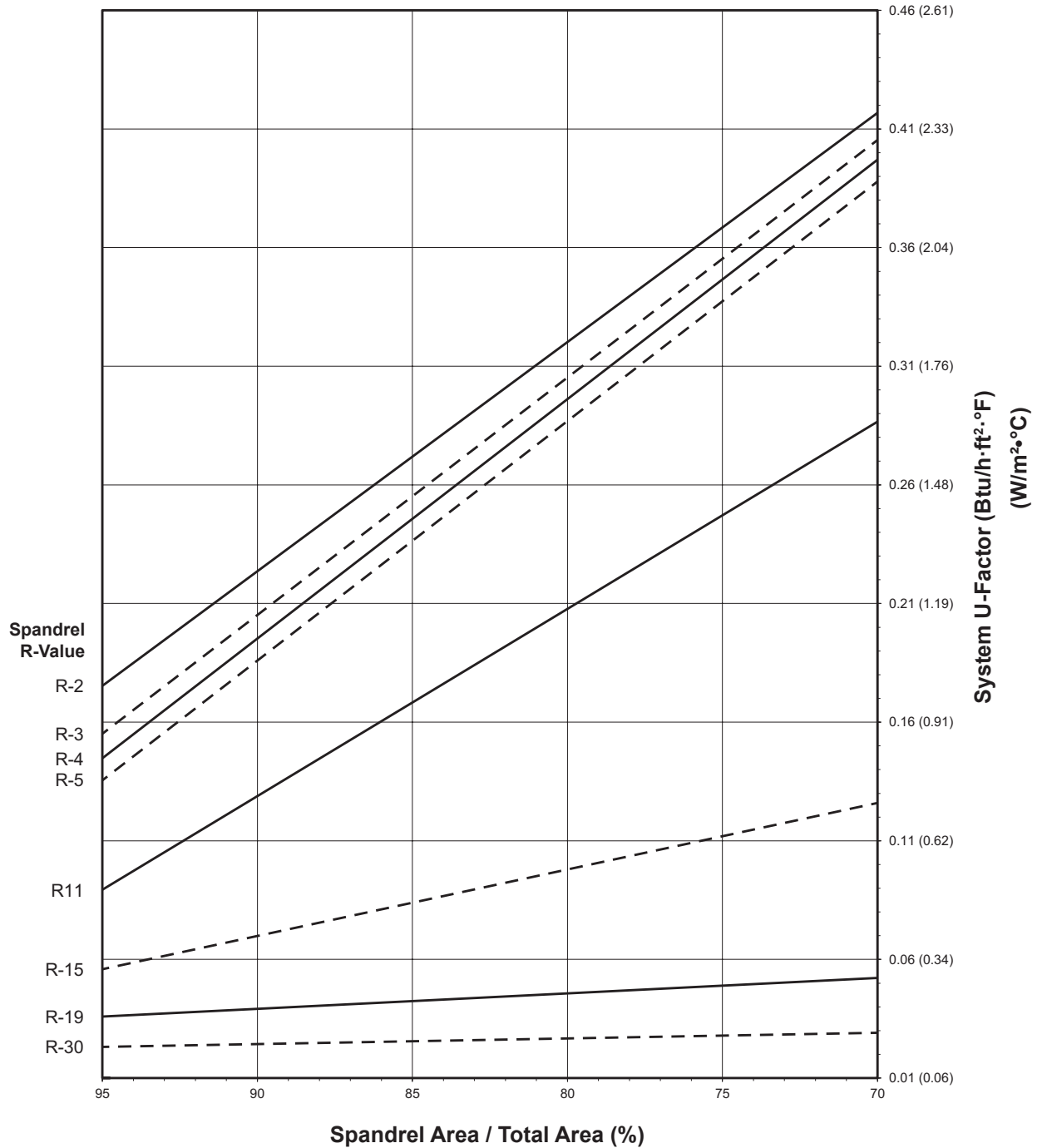
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

Aluminum Pressure Plate 1/4" Single Glazed

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

System U-Factor for Spandrel Glass



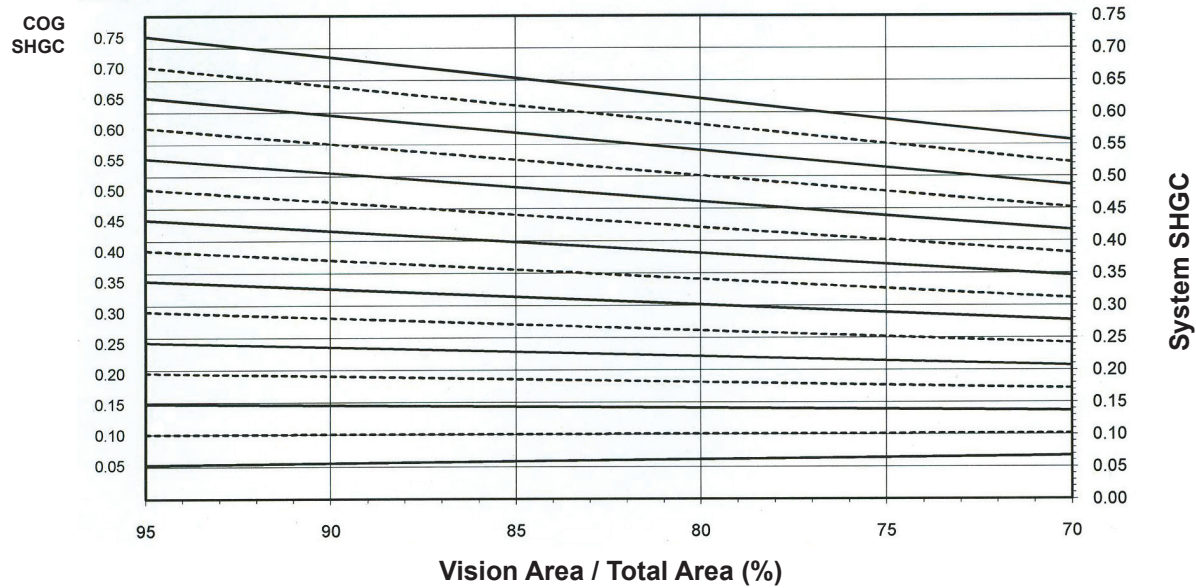
Notes for System U-Factor, SHGC and VT charts:

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

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

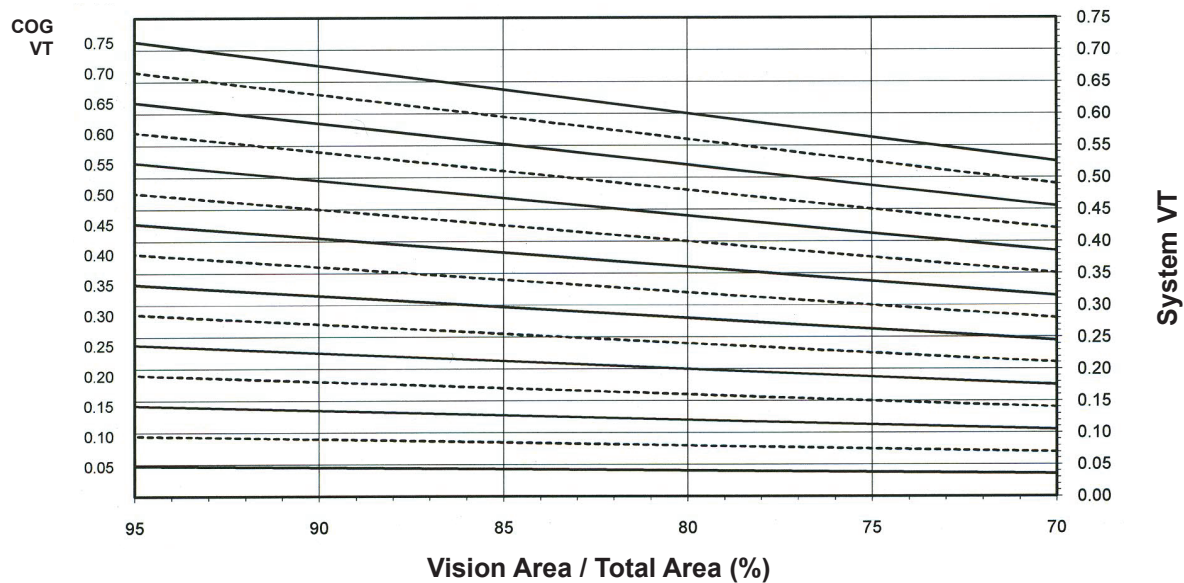
Aluminum Pressure Plate 1" Double Glazed - Aluminum Glazing Spacer

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.47	0.54
0.46	0.53
0.44	0.52
0.42	0.50
0.40	0.48
0.38	0.47
0.36	0.45
0.34	0.43
0.32	0.42
0.30	0.40
0.28	0.38
0.26	0.37
0.24	0.35
0.22	0.33
0.20	0.32
0.18	0.30
0.16	0.28
0.14	0.26
0.12	0.25
0.10	0.23

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 Matrices 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

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

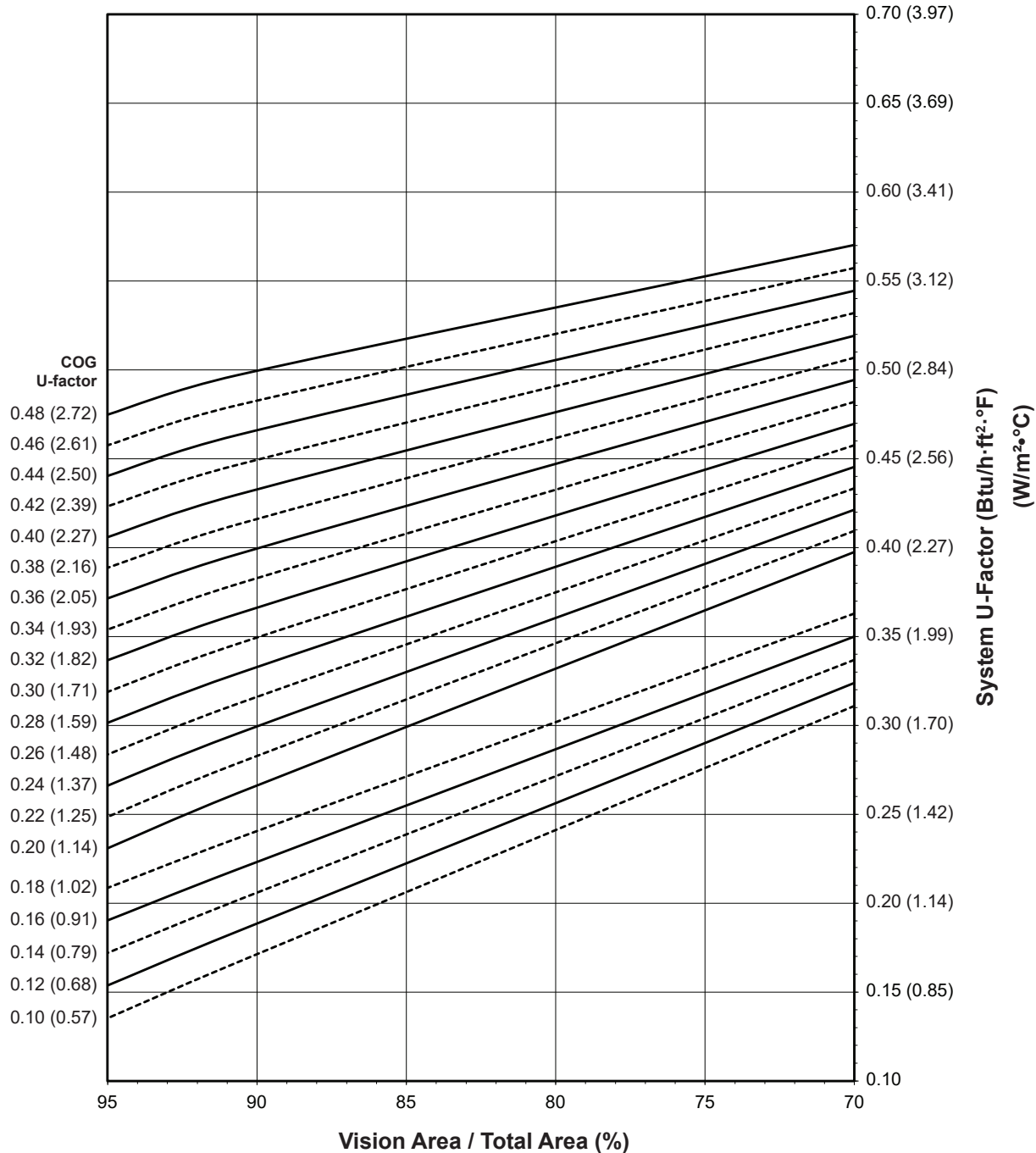
Note:

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:**

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.

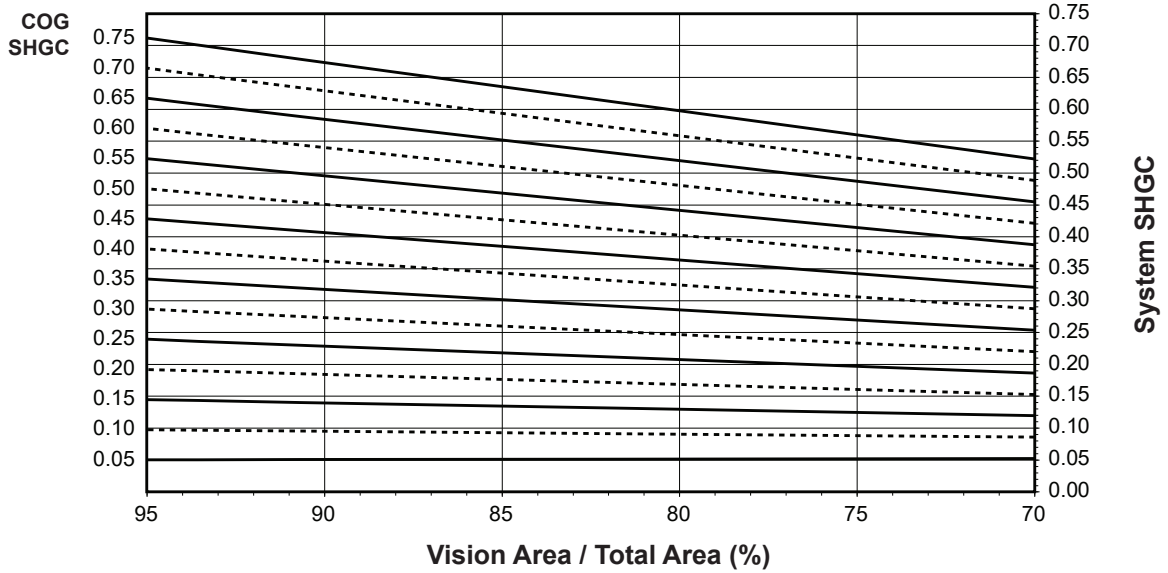
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

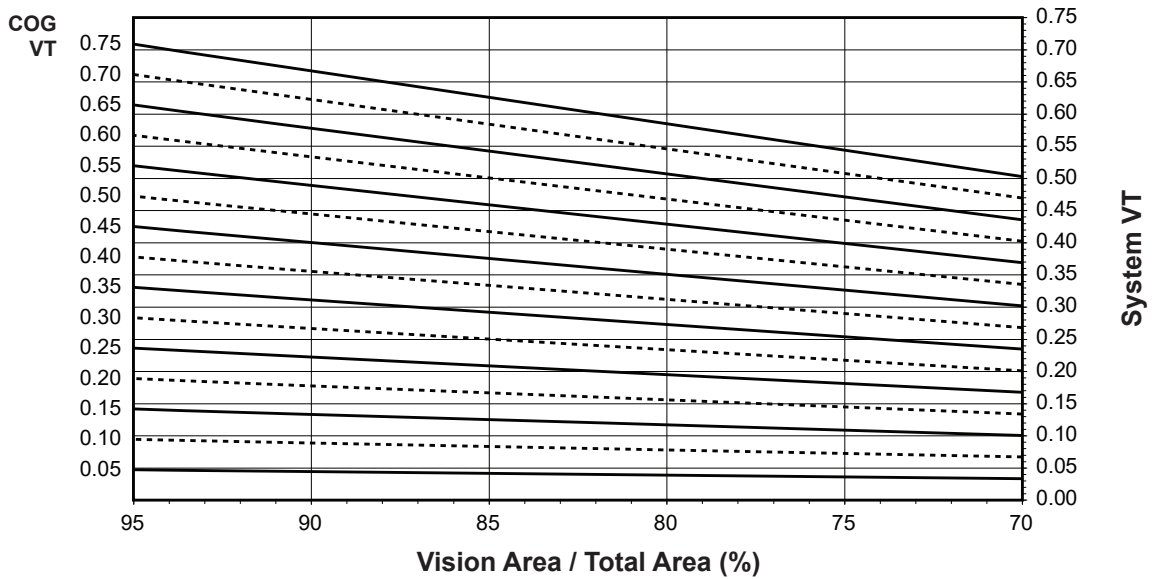
**Fiberglass Pressure Plate
1" Double Glazed - Warm-Edge Glazing Spacer**

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.50
0.46	0.48
0.44	0.46
0.42	0.45
0.40	0.43
0.38	0.41
0.36	0.40
0.34	0.38
0.32	0.36
0.30	0.35
0.28	0.33
0.26	0.31
0.24	0.30
0.22	0.28
0.20	0.26
0.18	0.24
0.16	0.22
0.14	0.20
0.12	0.18
0.10	0.17

**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 Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.68
0.70	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance²

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

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

Fiberglass Pressure Plate 1" Double Glazed - Aluminum Glazing Spacer

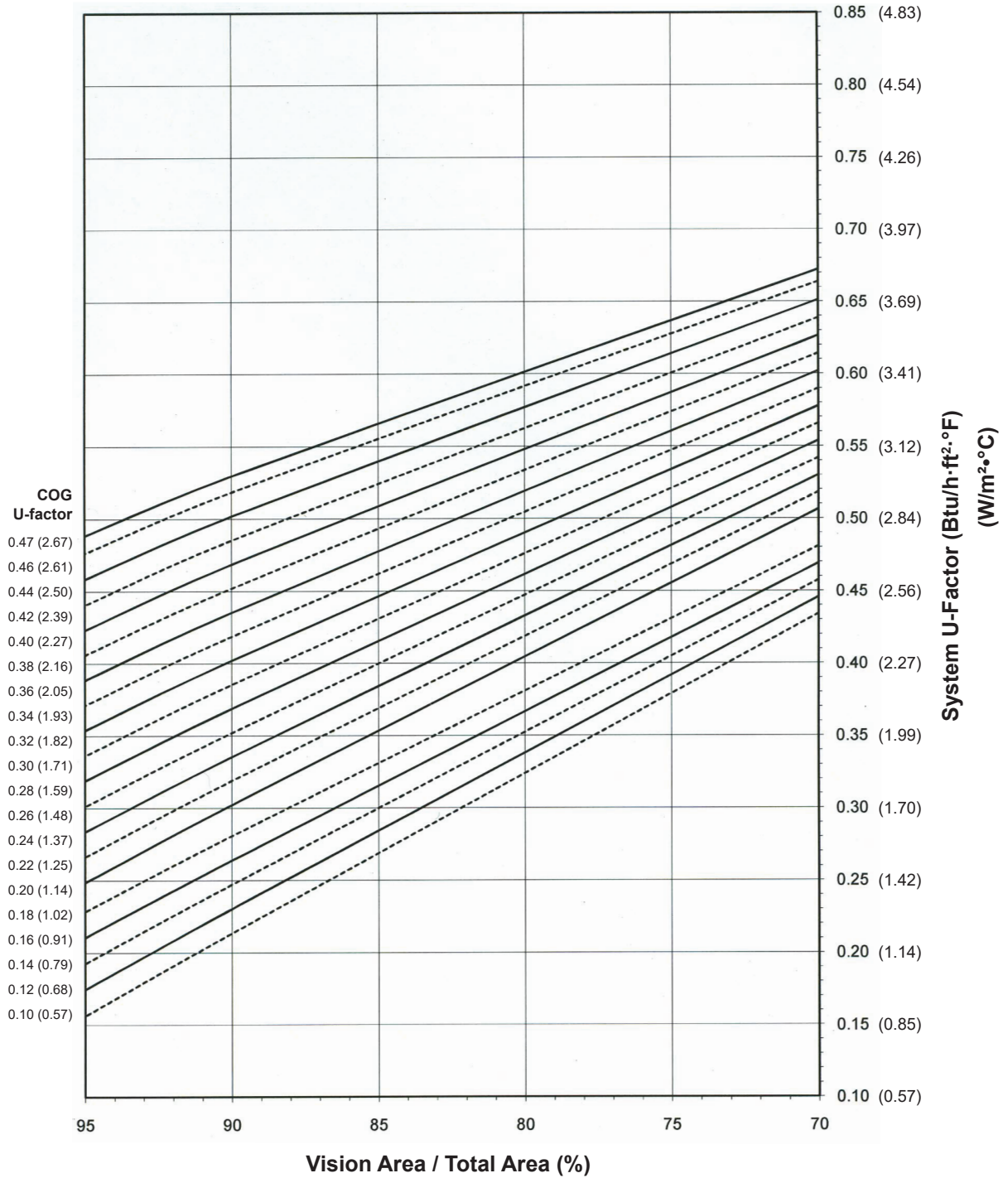
Note:

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:

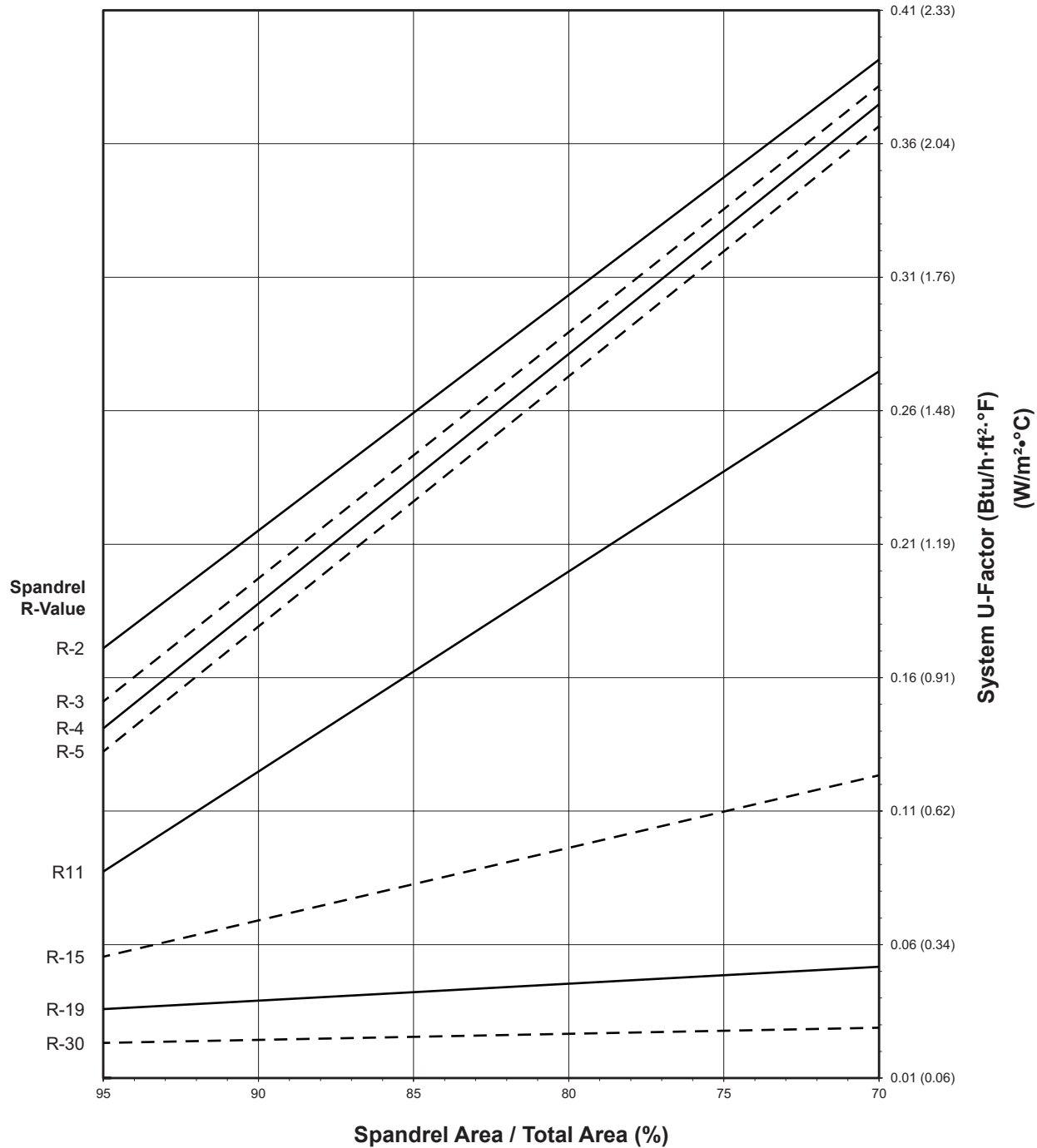
For glass values that are not listed, linear interpolation is permitted.

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

Fiberglass Pressure Plate 1/4" Single Glazed

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.

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

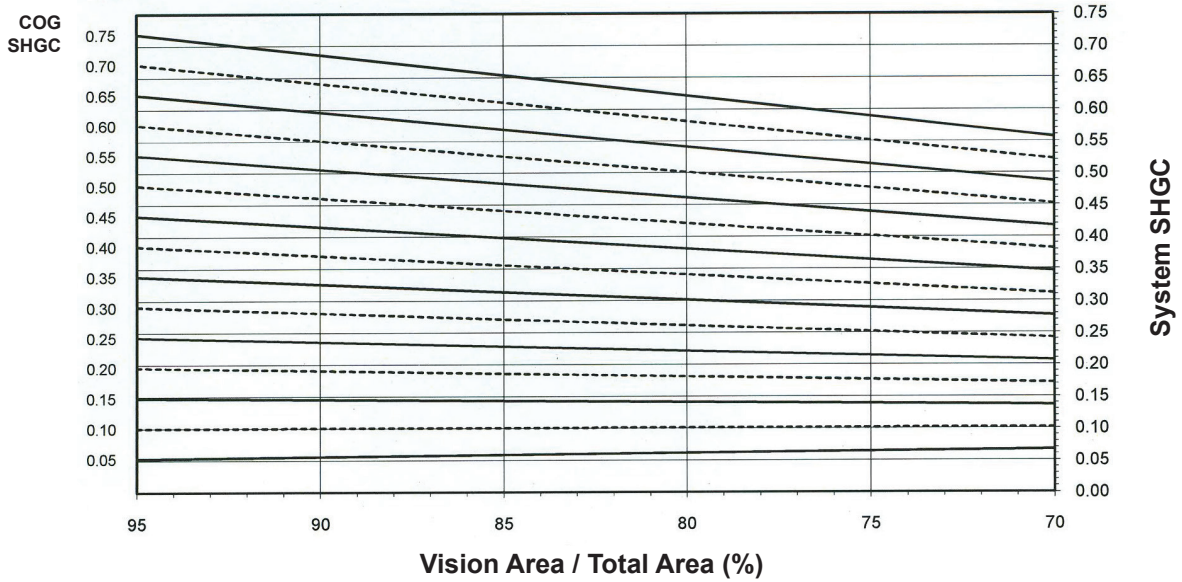
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

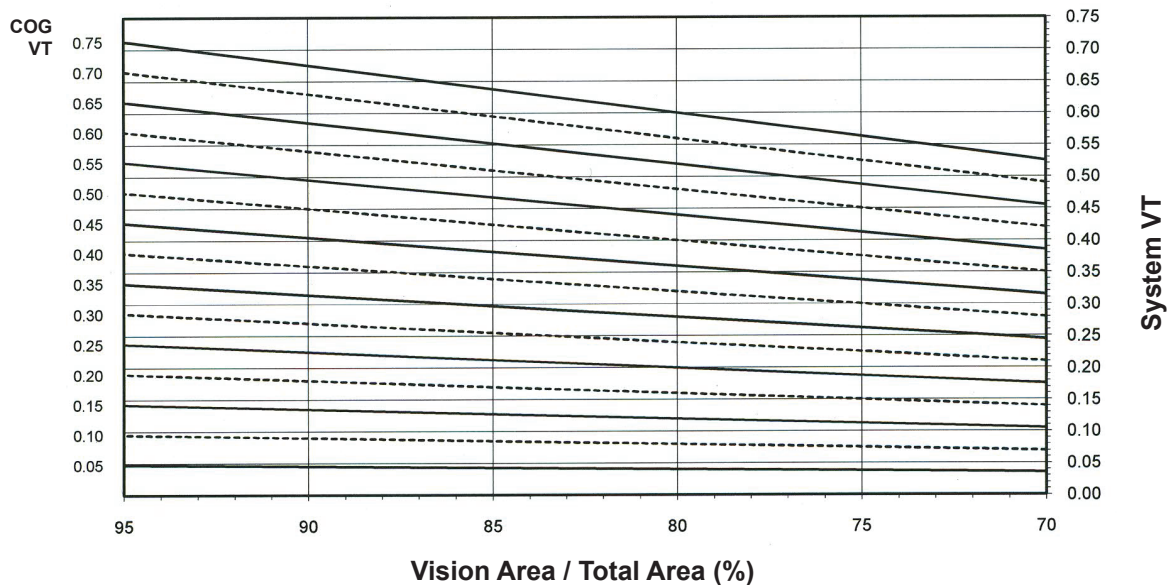
**Fiberglass Pressure Plate
1" Double Glazed - Aluminum Glazing Spacer**

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

Thermal Transmittance ¹ (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	0.34
0.22	0.32
0.20	0.31
0.18	0.28
0.16	0.27
0.14	0.25
0.12	0.23
0.10	0.22

**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	0.68
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

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

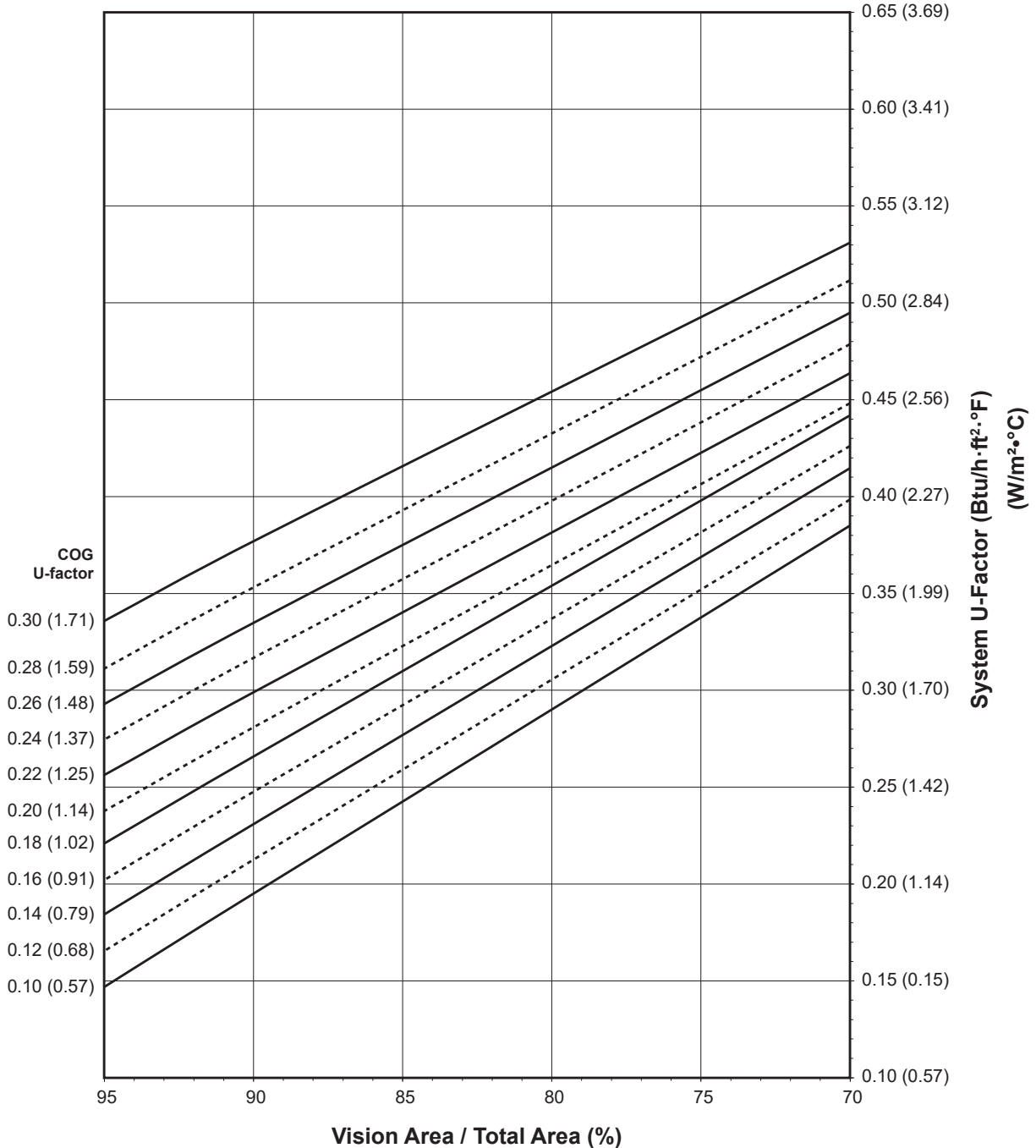
Note:

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.

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

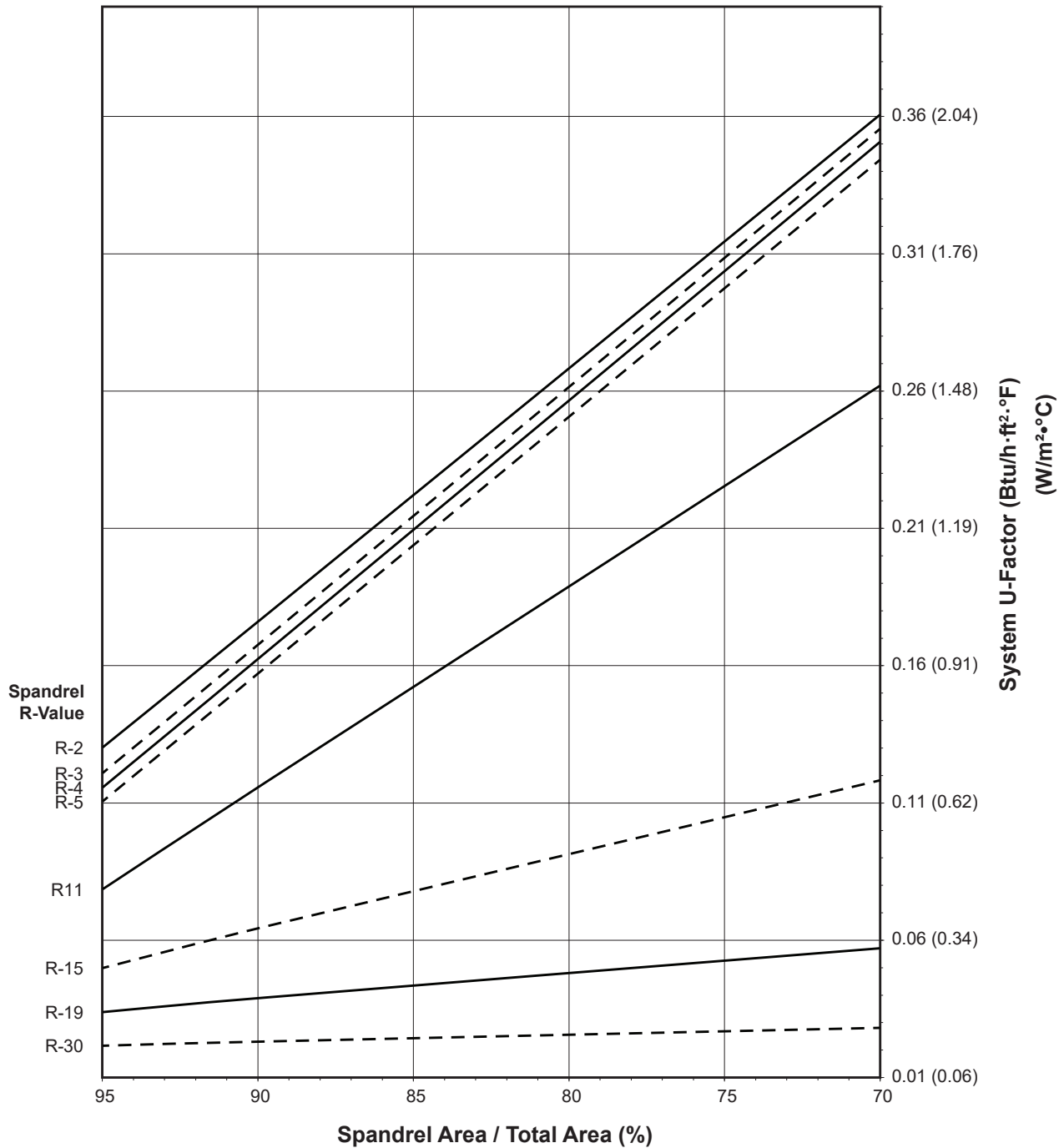
Note:

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:**

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.

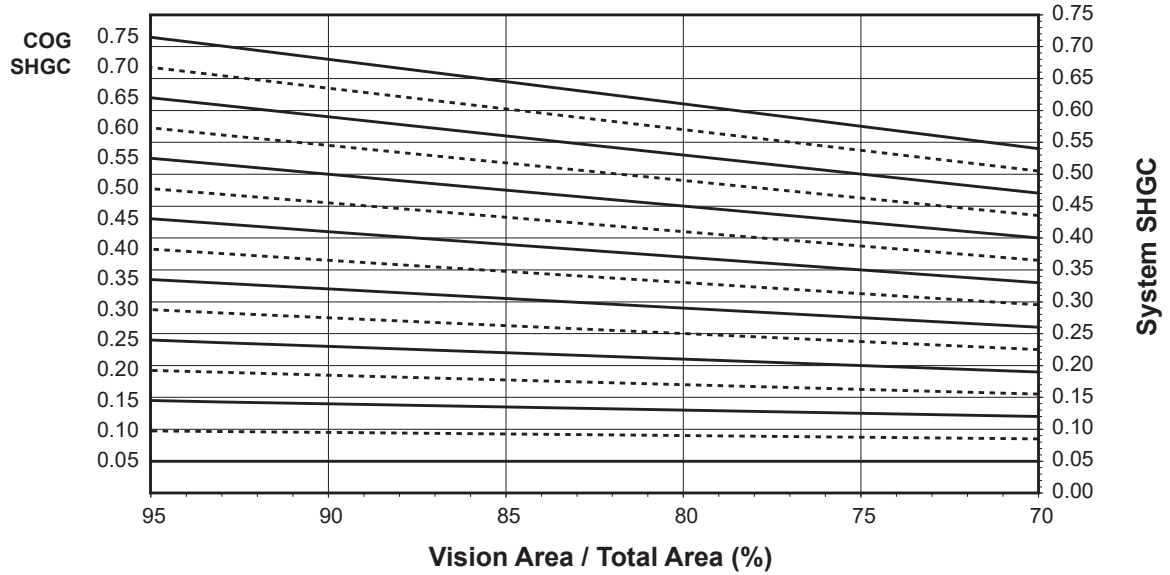
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

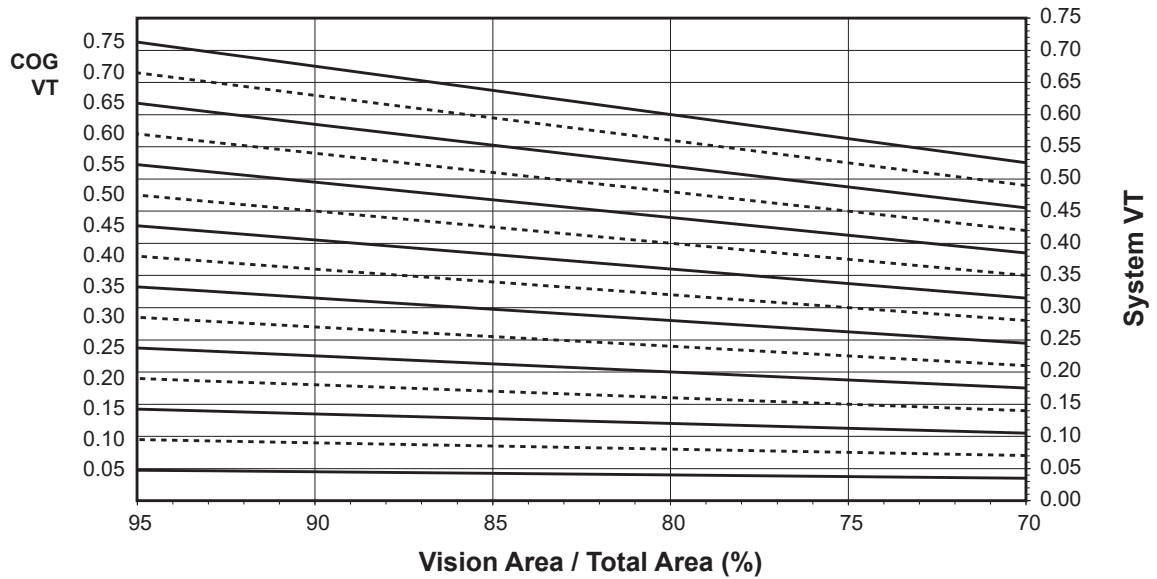
**Aluminum Pressure Plate
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer**

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.30	0.38
0.28	0.36
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	0.22
0.10	0.20

**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 Matrix²

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

Visible Transmittance²

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

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.

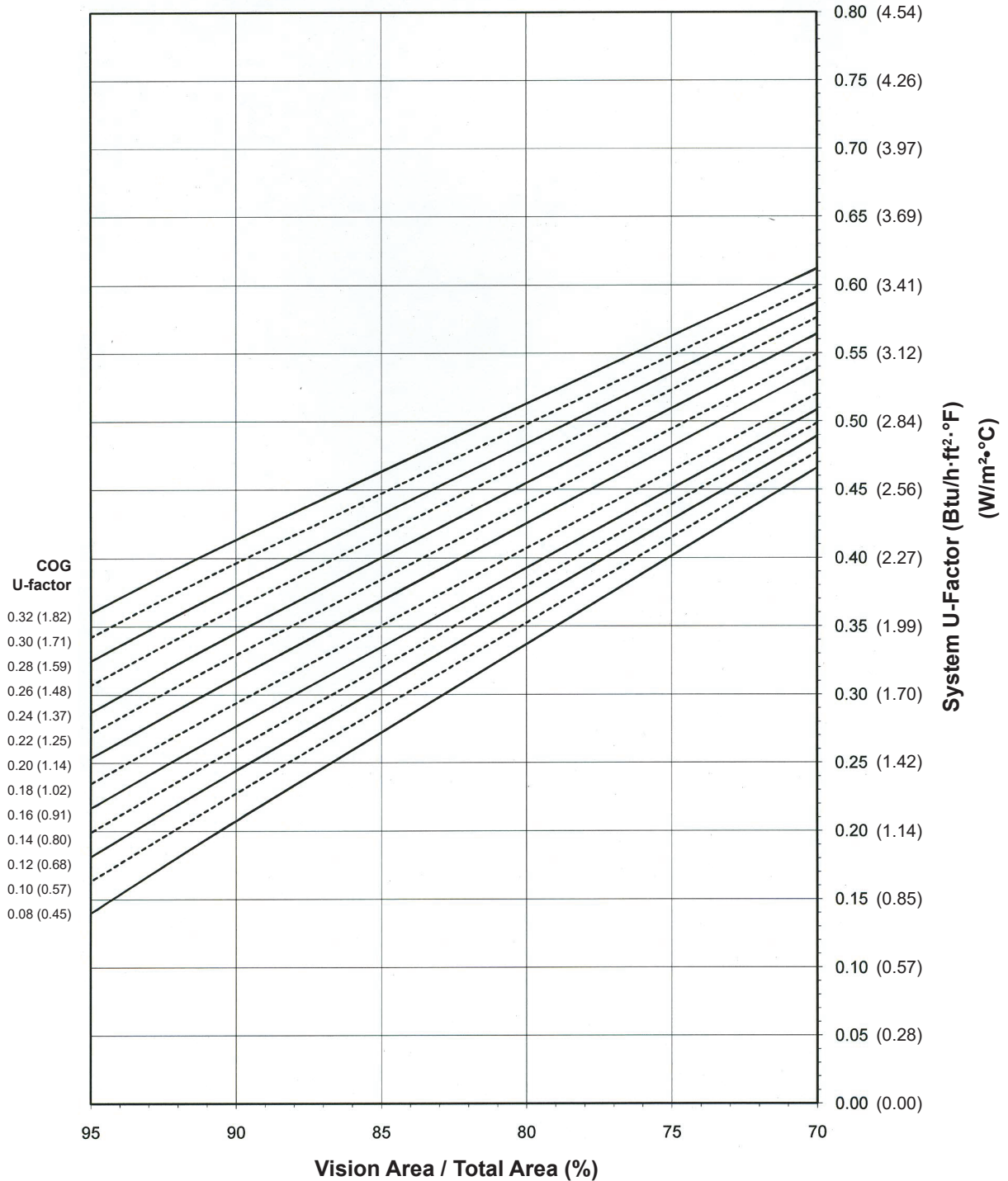
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

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:

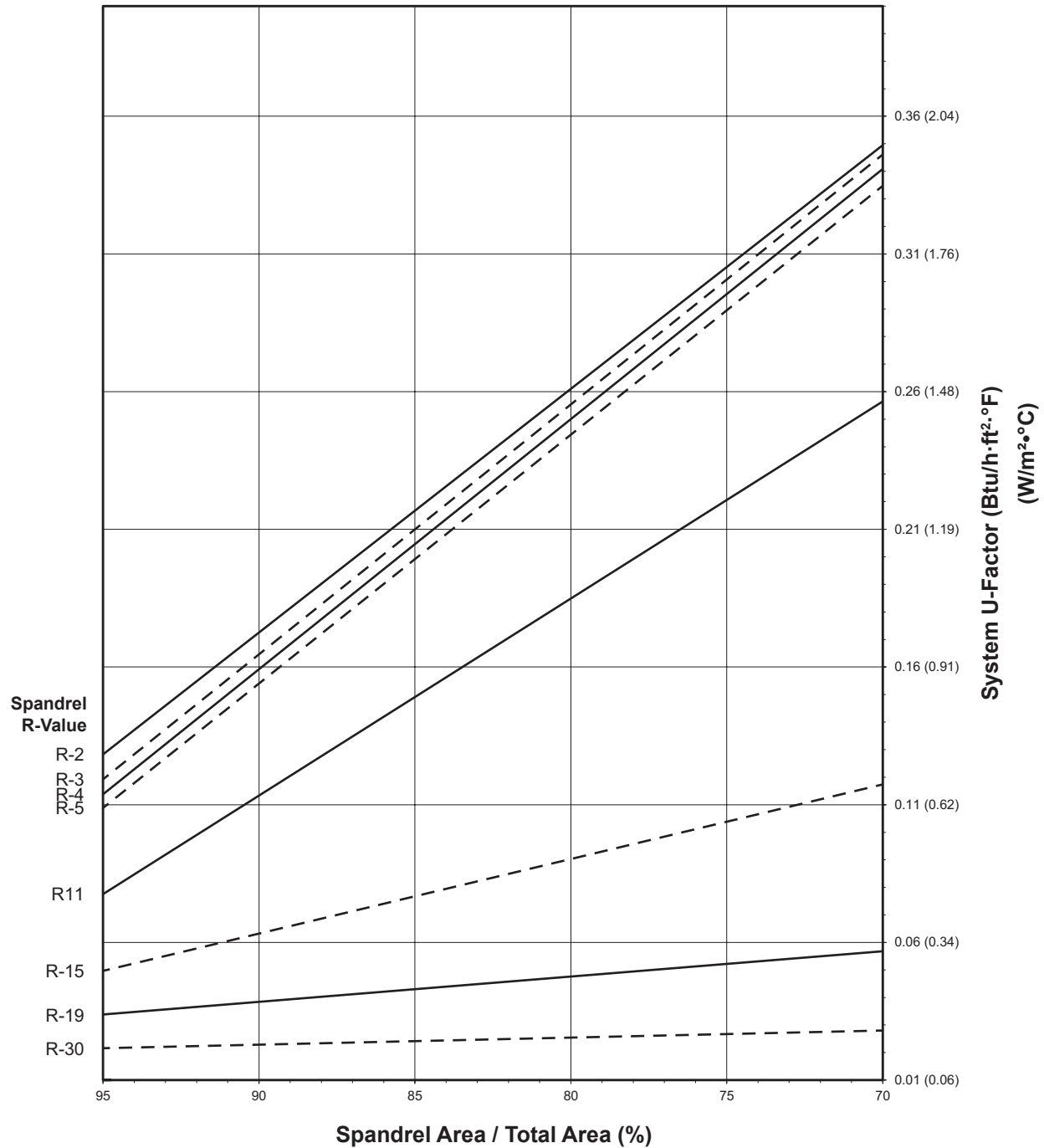
For glass values that are not listed, linear interpolation is permitted.

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

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:

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.

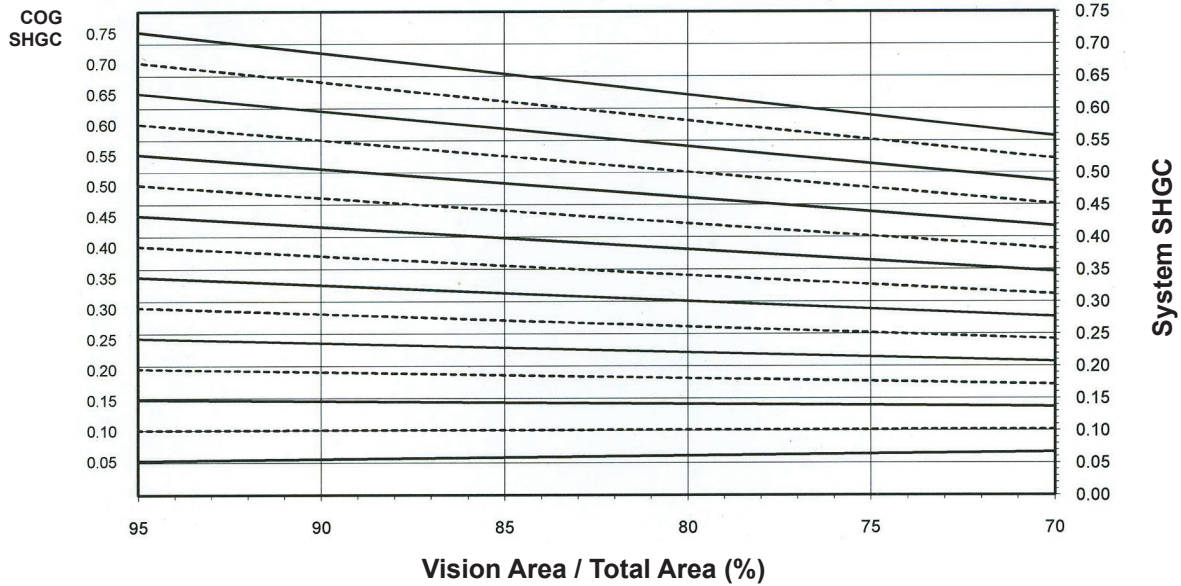
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

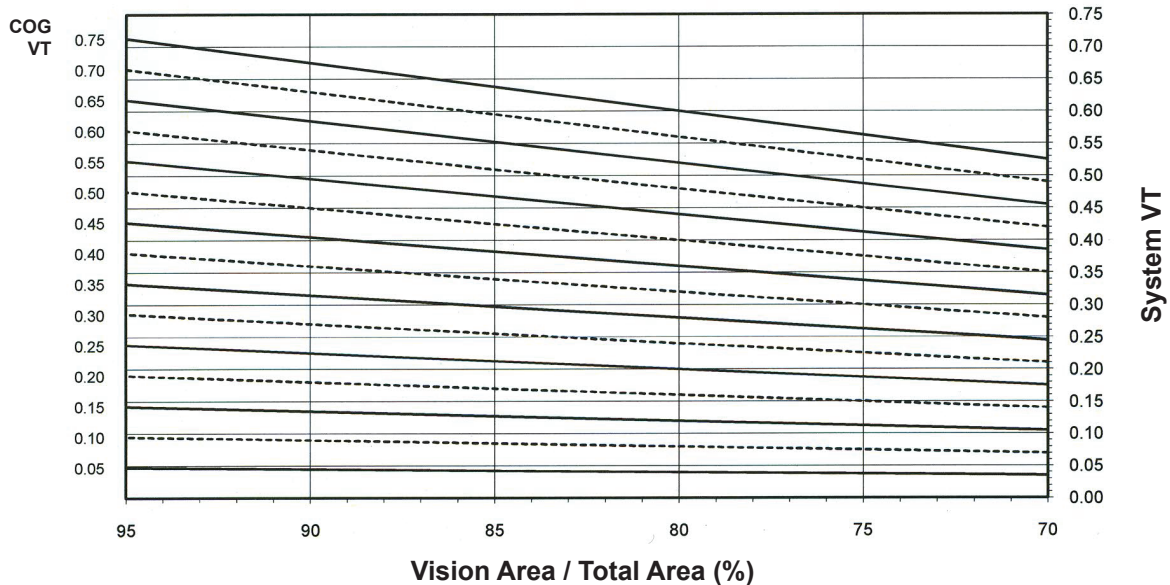
**Aluminum Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer**

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.32	0.42
0.30	0.40
0.28	0.38
0.26	0.37
0.24	0.35
0.22	0.33
0.20	0.32
0.18	0.30
0.16	0.28
0.14	0.26
0.12	0.25
0.10	0.23
0.08	0.21

**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 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	0.24
0.20	0.19
0.15	0.15
0.10	0.10
0.05	0.06

Visible Transmittance²

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

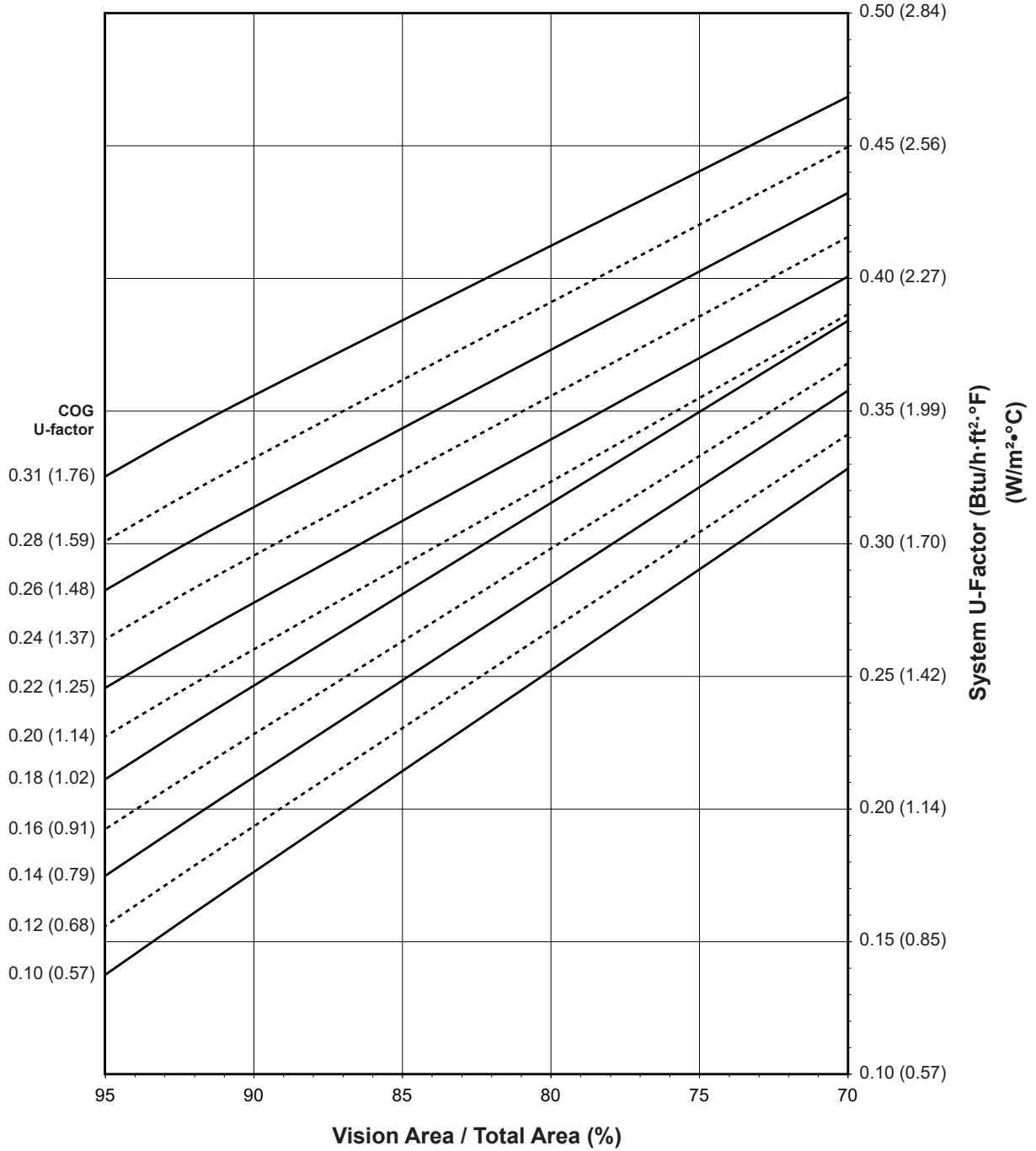
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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



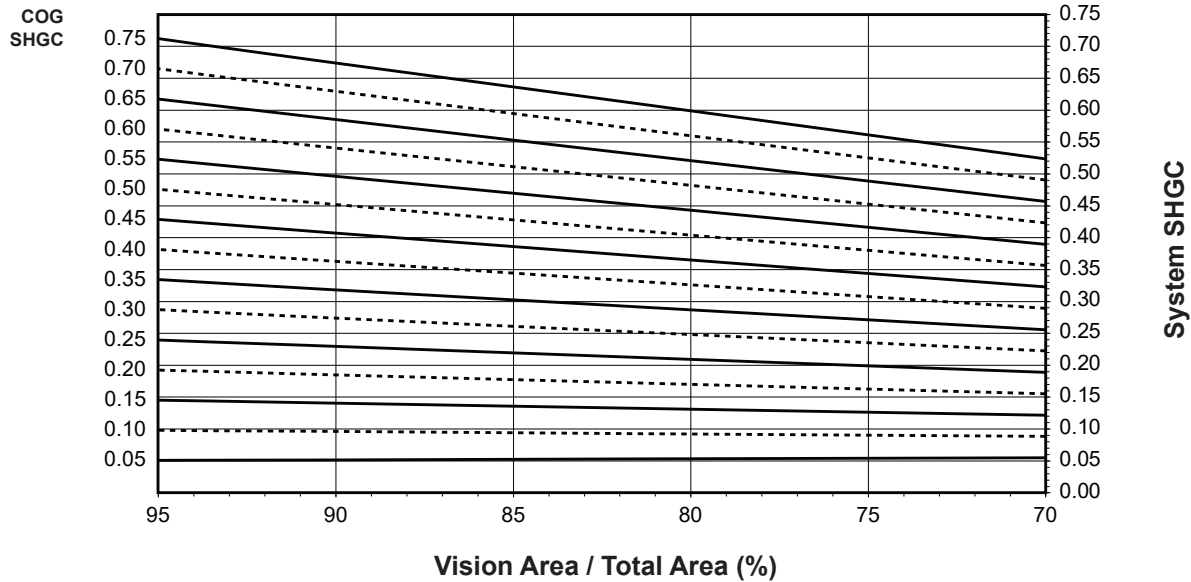
Notes for System U-Factor, SHGC and VT charts:

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.

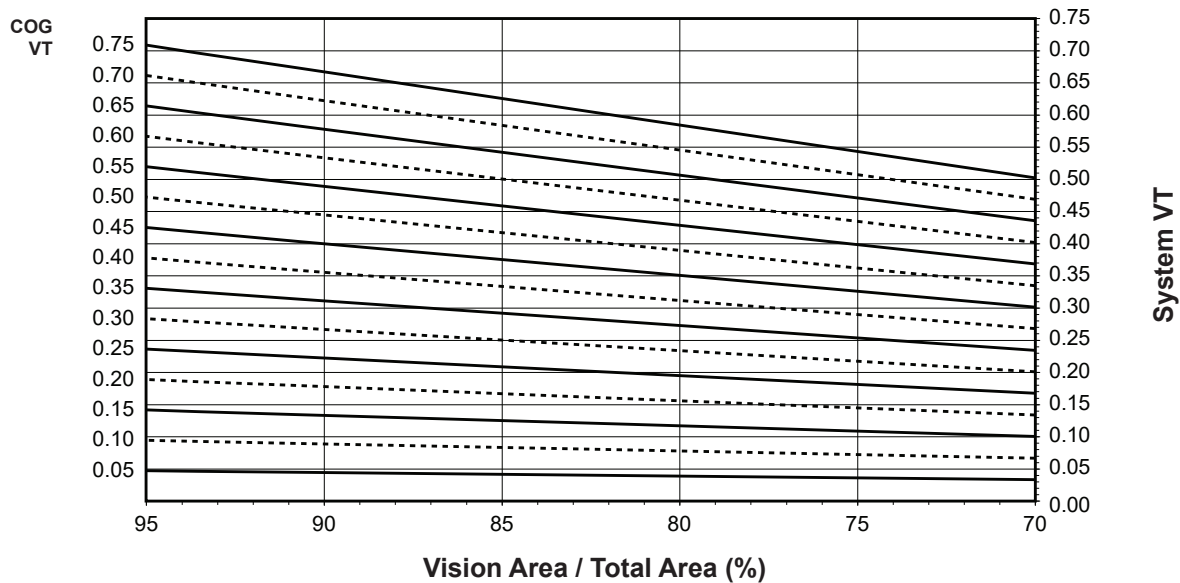
**Fiberglass Pressure Plate
1-3/4" Triple Glazed - Warm-Edge Glazing Spacer**

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.31	0.35
0.28	0.33
0.26	0.31
0.24	0.29
0.22	0.27
0.20	0.26
0.18	0.24
0.16	0.22
0.14	0.21
0.12	0.19
0.10	0.17

**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.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices 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	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.46
0.45	0.41
0.40	0.37
0.35	0.32
0.30	0.28
0.25	0.23
0.20	0.19
0.15	0.14
0.10	0.10
0.05	0.05

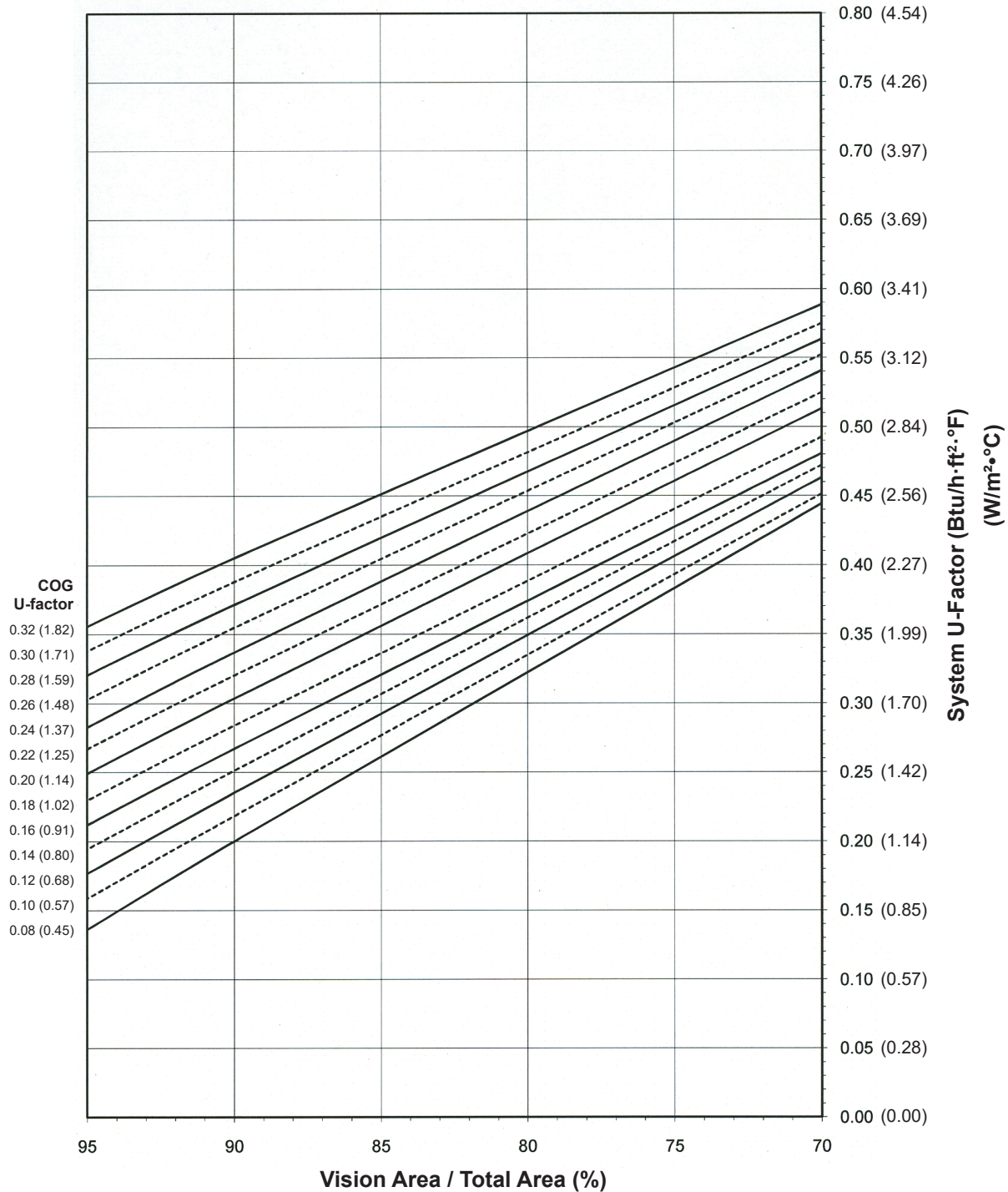
Visible Transmittance²

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

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:

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.

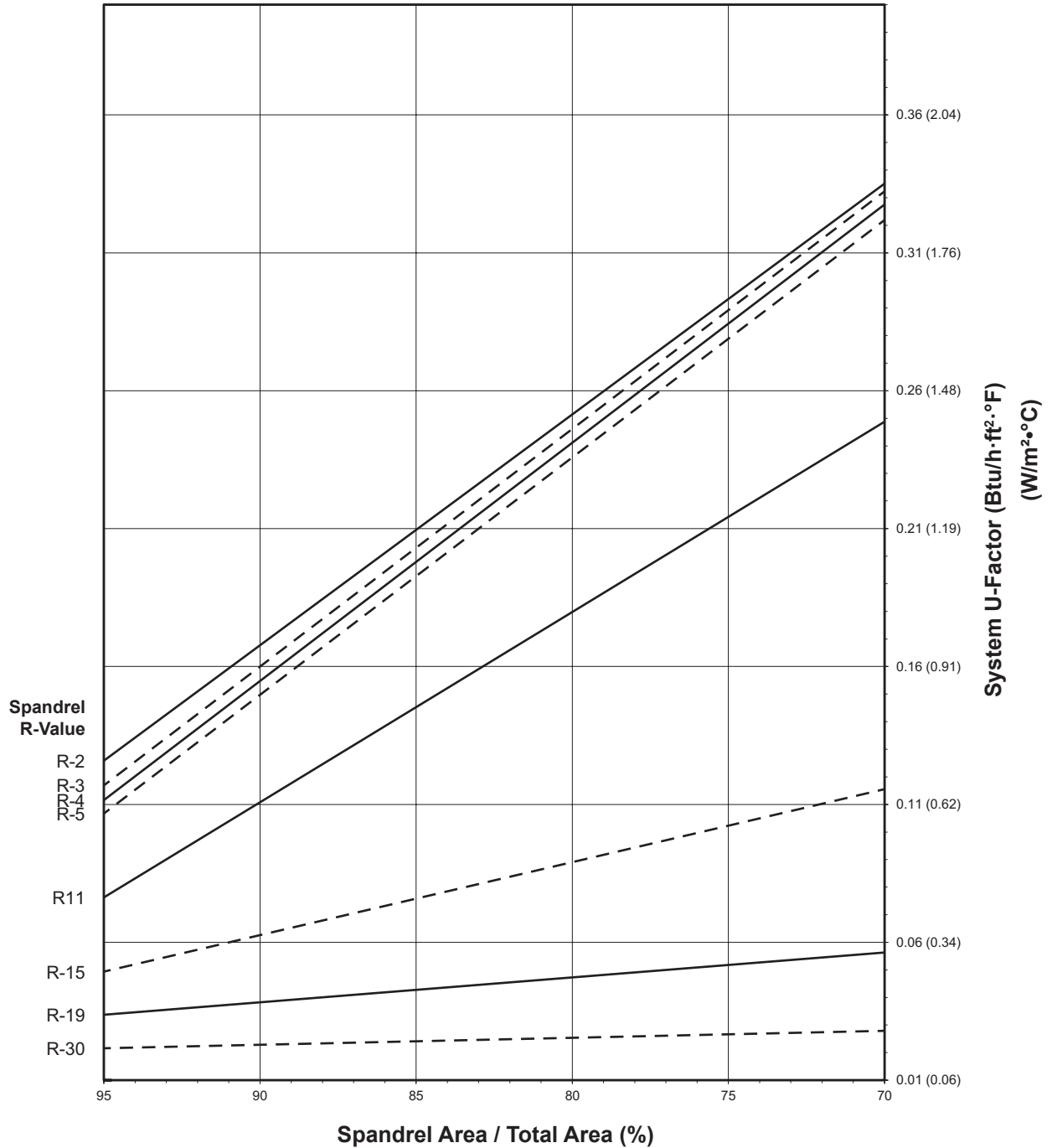
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2013, Kawneer Company, Inc.

**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 Spandrel Glass



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

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

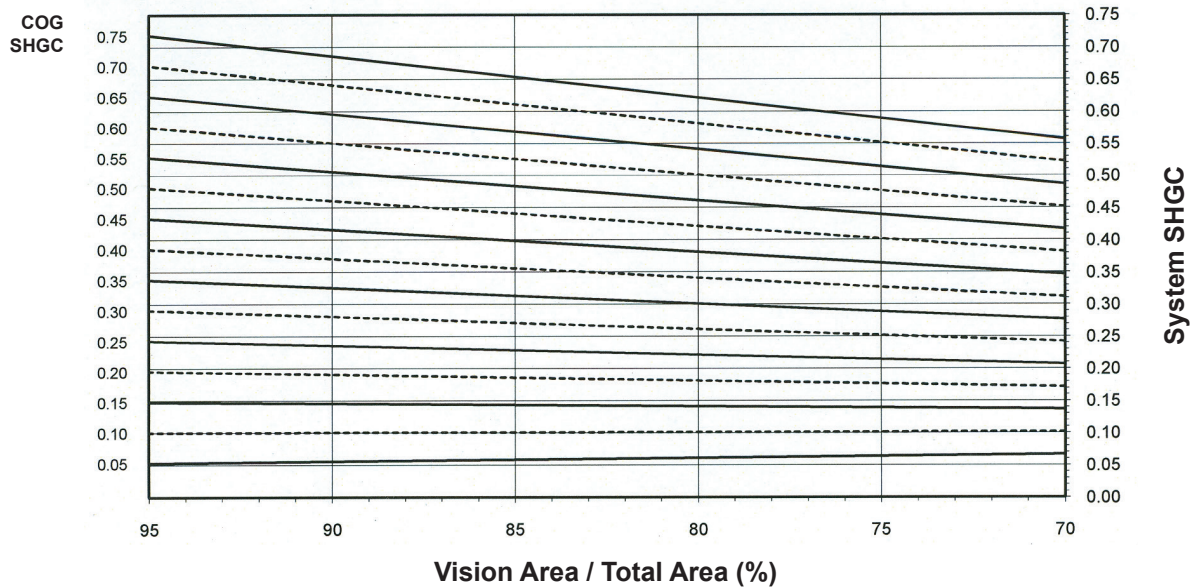
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

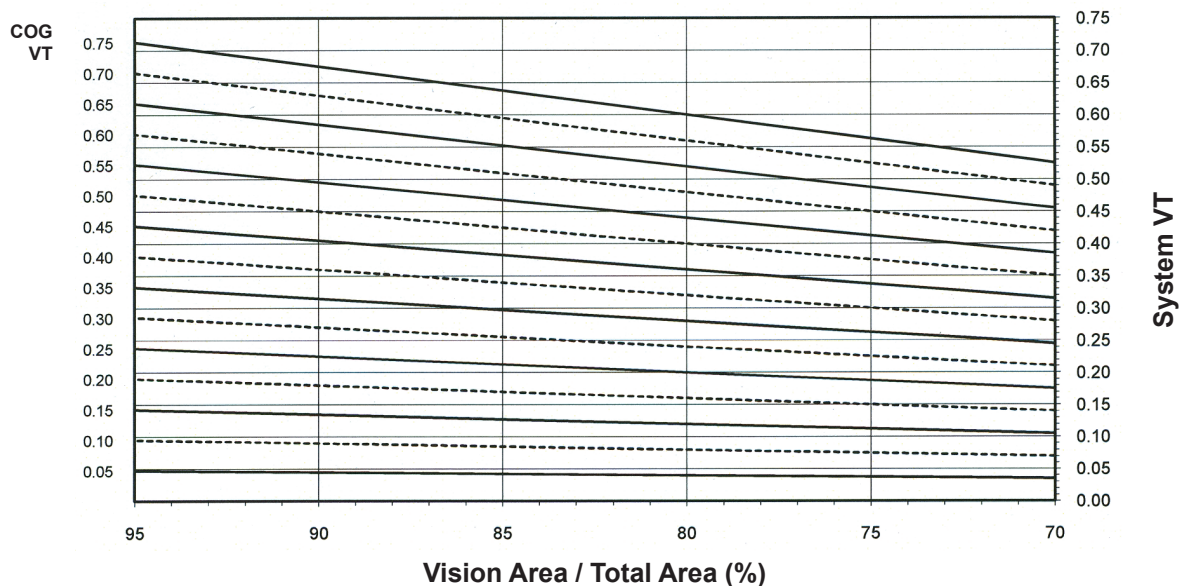
**Fiberglass Pressure Plate
1-3/4" Triple Glazed - Aluminum Glazing Spacer**

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.

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.

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

Glass U-Factor ³	Overall U-Factor ⁴
0.32	0.41
0.30	0.39
0.28	0.37
0.26	0.36
0.24	0.34
0.22	0.32
0.20	0.31
0.18	0.29
0.16	0.27
0.14	0.25
0.12	0.24
0.10	0.22
0.08	0.20

**Fiberglass 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 Matrices 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

CONDENSATION RESISTANCE

Glazing Infill	Pressure Plate Type	Condensation Resistance Factor (CRF) AAMA 1503		Temperature Index (TI) CSA A440-0	
		Frame	Glass	Frame	Glass
1" Double	Aluminum	79	76	71	67
	Fiberglass	---	---	76	68
1-3/4" Triple	Aluminum	82	81	74	77
	Fiberglass	---	---	76	78

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© 2013, Kawneer Company, Inc.