

## **Features**

- AA®250 narrow stile has 2-1/2" (63.5) vertical stiles, 2-1/2" (63.5) top rail, and 3-7/8" (98.4) bottom rail
- AA®425 wide stile has 4-1/4" (108) vertical stiles, 4-1/4" (108) top rail, and 6-1/2" (165.1) bottom rail
- Door is 2-1/4" (57.2) deep
- Door has 1/8" (3.2) typical wall thickness
- Dual welded corner construction
- Polyamide thermal break
- Single acting
- 1" (25.4) insulated glass infill
- Offset pivots, butt hinges or continuous geared hinge
- MS locks or exit device hardware
- Surface mounted or concealed closers
- Architects Classic push/pulls
- Meeting stile astragal has dual pile weathering with polymeric fin
- Polymeric bulb weatherstripping and pile weathering with polymeric fin in door frame
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

## **Optional Features**

- Variety of top, bottom, and cross rails
- Two color finish capability

## **Product Applications**

- AA®250 - engineered for thermal efficiency in moderate traffic applications such as offices, stores, and apartment buildings
- AA®425 - engineered for thermal efficiency and added strength for schools, institutions and other increased traffic applications

For specific product applications,  
consult your Kawneer representative.

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

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

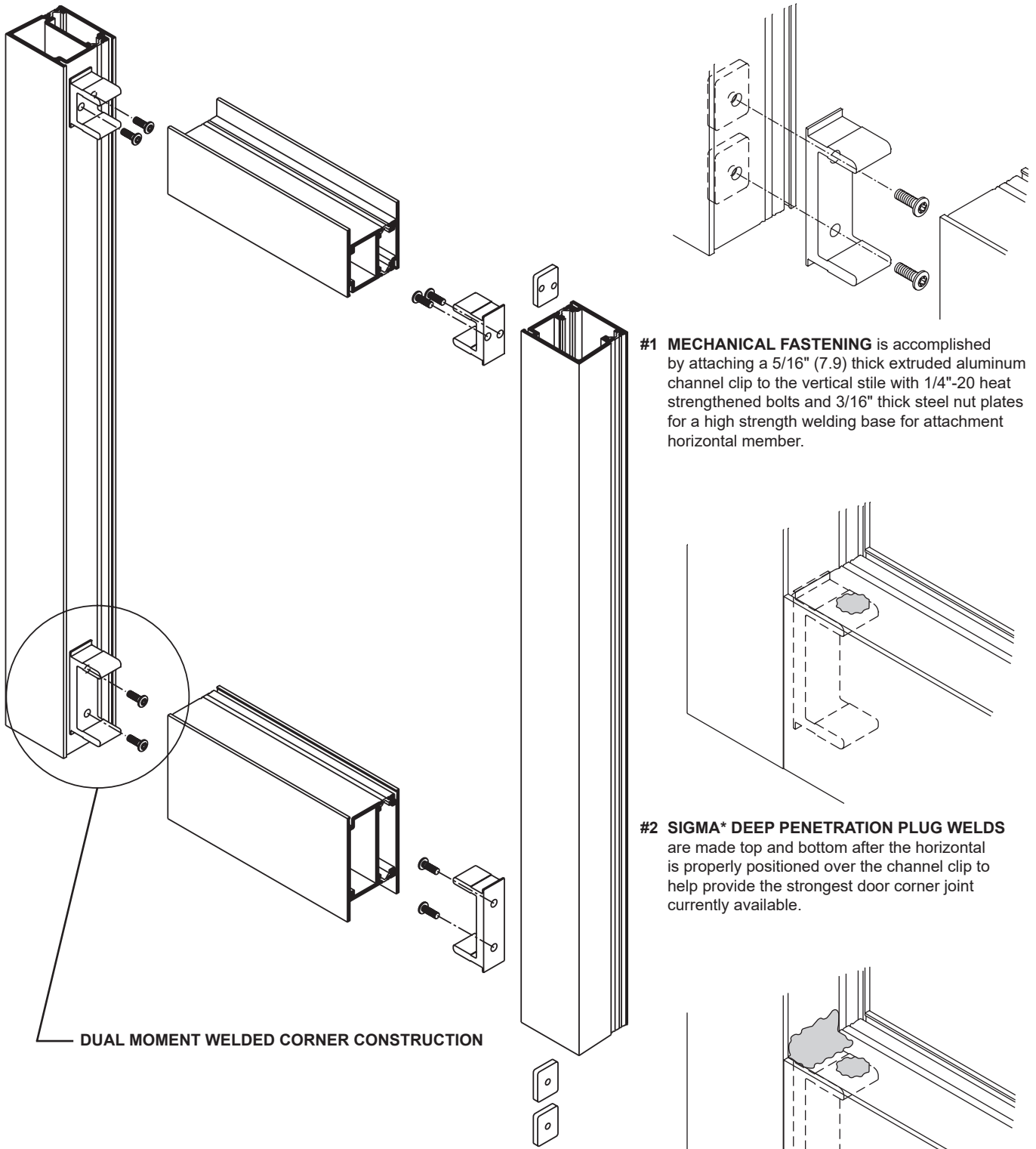
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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DUAL MOMENT WELDED CORNER CONSTRUCTION

**#1 MECHANICAL FASTENING** is accomplished by attaching a 5/16" (7.9) thick extruded aluminum channel clip to the vertical stile with 1/4"-20 heat strengthened bolts and 3/16" thick steel nut plates for a high strength welding base for attachment horizontal member.

**#2 SIGMA\* DEEP PENETRATION PLUG WELDS** are made top and bottom after the horizontal is properly positioned over the channel clip to help provide the strongest door corner joint currently available.

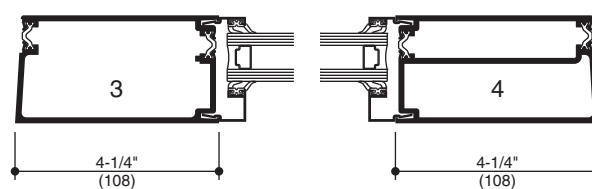
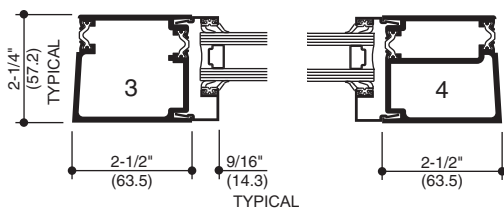
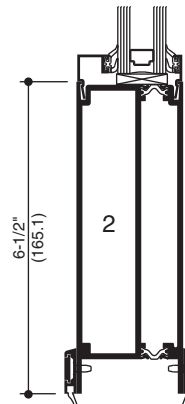
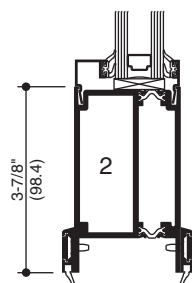
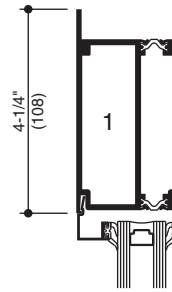
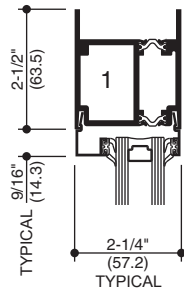
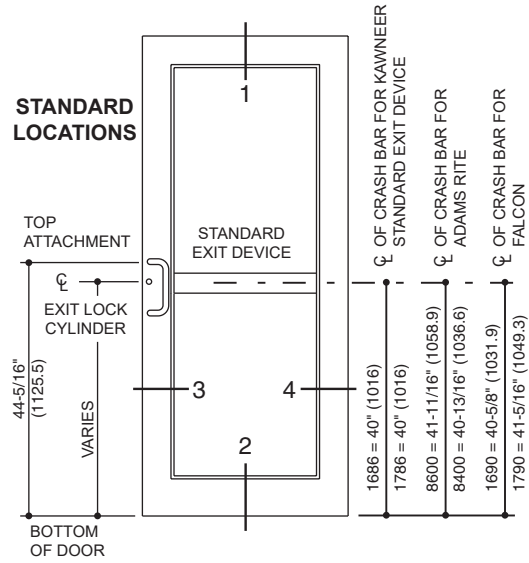
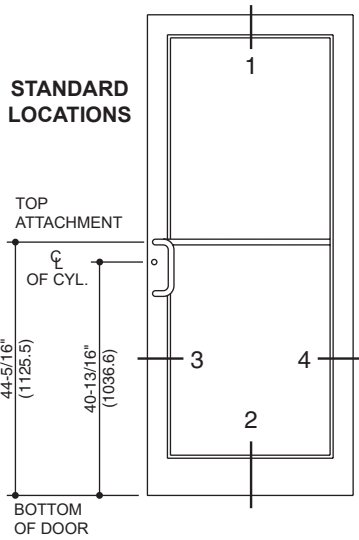
**#3 SIGMA\* FILLET WELDS** along both top and bottom webs of the rail extrusion complete the Dual Welded corner construction.

\* An arc welding process known as Shielded Inert Gas Metal Arc (SIGMA) or also known as Metal Inert Gas (MIG).

Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

250 NARROW STILE

425 WIDE STILE



LOCK STILE

PIVOT STILE

LOCK STILE

PIVOT STILE

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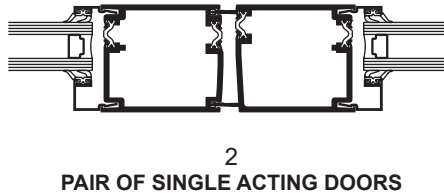
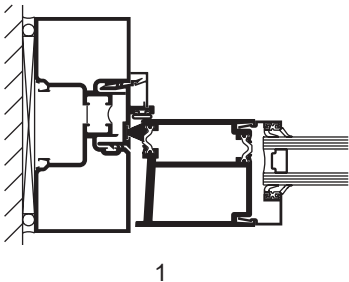
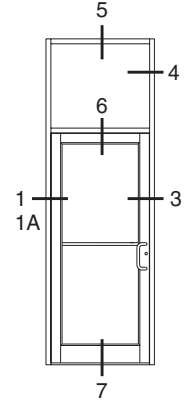
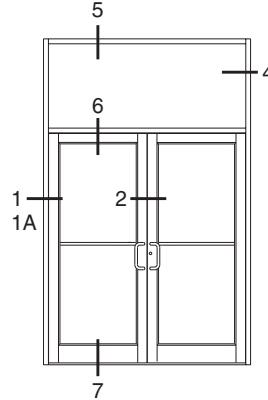
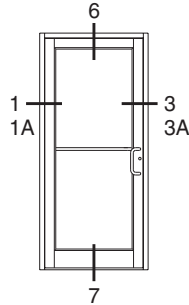
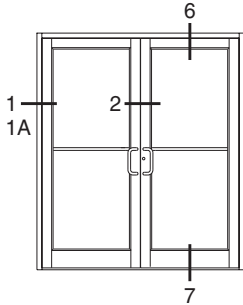
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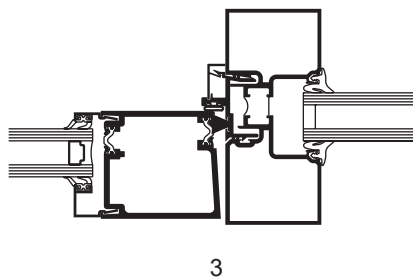
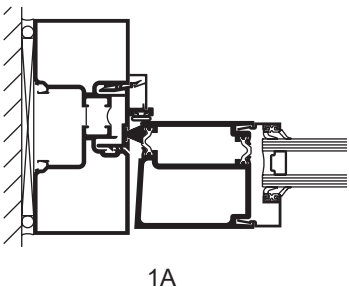
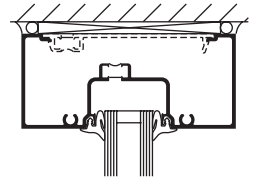
### AA®250 THERMAL ENTRANCE DOORS SINGLE ACTING TRIFAB® VG 451T CENTER DOOR FRAMES SHOWN

**NOTE:**

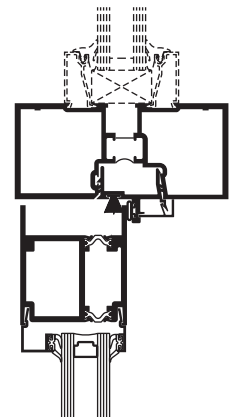
1. NARROW STILE AA®250 THERMAL ENTRANCES ARE DETAILED, WIDE STILE AA®425 THERMAL ENTRANCES ALSO MAY BE USED.
2. TRIFAB® VG 451T CENTER, 2" X 4-1/2" (50.8 X 114.3) FRAMING IS DETAILED WITH THE DOORS FOR REFERENCE. OTHER KAWNEER FRAMING SERIES OR CURTAIN WALL SYSTEMS MAY BE USED. REFER TO THE CATALOG INDEX FOR THE APPROPRIATE DETAIL SECTION.



5  
TRANSOM HEAD

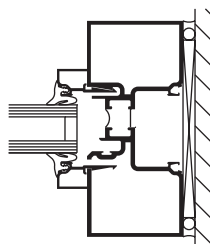


6  
DOOR HEADER/  
TRANSOM BAR



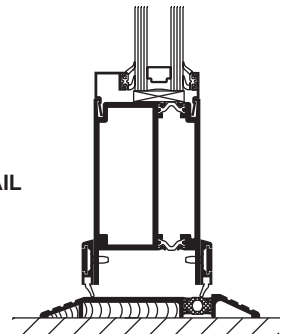
1A

3



4  
TRANSOM  
INSERT

7\*  
BOTTOM RAIL



\*NOTE: Some building codes limit threshold height to 1/2" (12.7) max.

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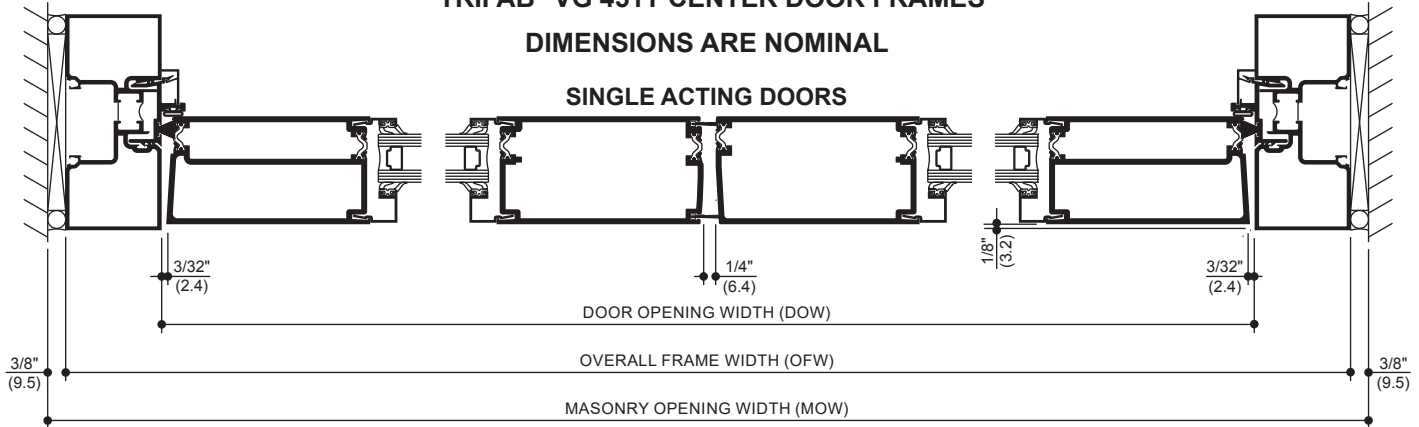
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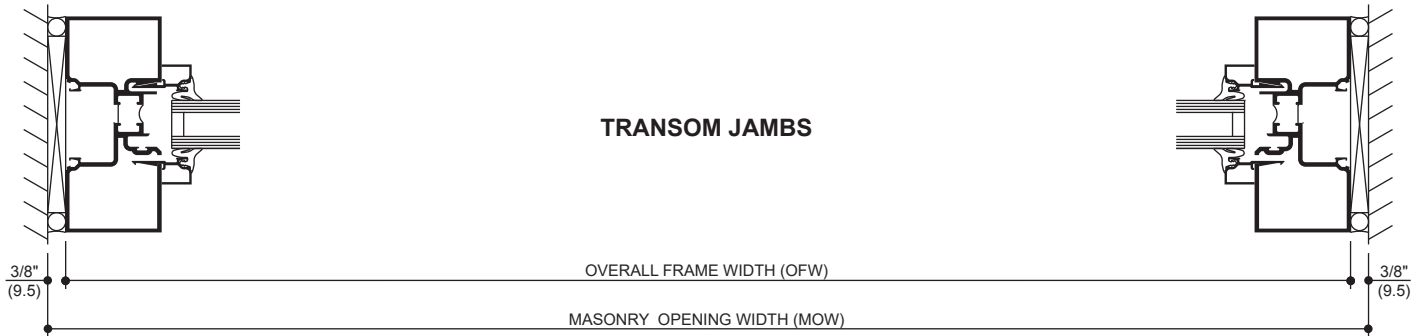
TRIFAB<sup>®</sup> VG 451T CENTER DOOR FRAMES

DIMENSIONS ARE NOMINAL

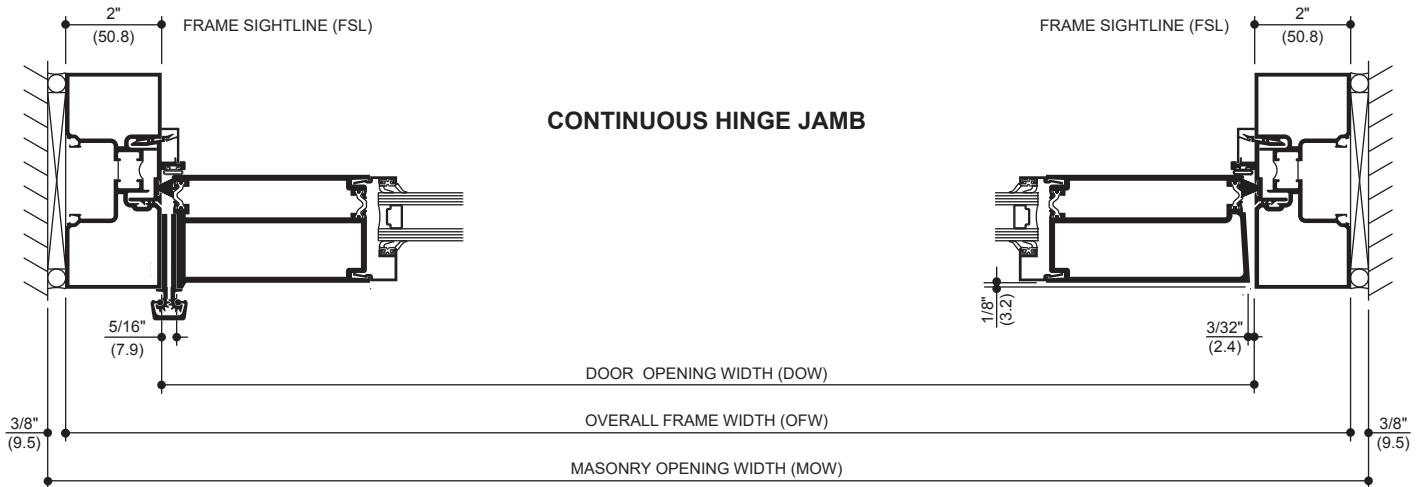
SINGLE ACTING DOORS



TRANSOM JAMBS



CONTINUOUS HINGE JAMB



STANDARD SIZES (TRIFAB<sup>®</sup> VG 451T CENTER FRAMES)

WITH AND WITHOUT TRANSOM

Door Opening Dimension (DOW)	
3' 0"	(914)
3' 6"	(1,067)
6' 0"	(1,829)

Overall Frame Dimension (OFW)	
3' 4"	(1,016)
3' 10"	(1,168)
6' 4"	(1,930)

Masonry Opening Dimension (MOW)	
3' 4-3/4"	(1,035)
3' 10-3/4"	(1,187)
6' 4-3/4"	(1,949)

WITH AND WITHOUT TRANSOM

OFW = DOW + 2 FSL

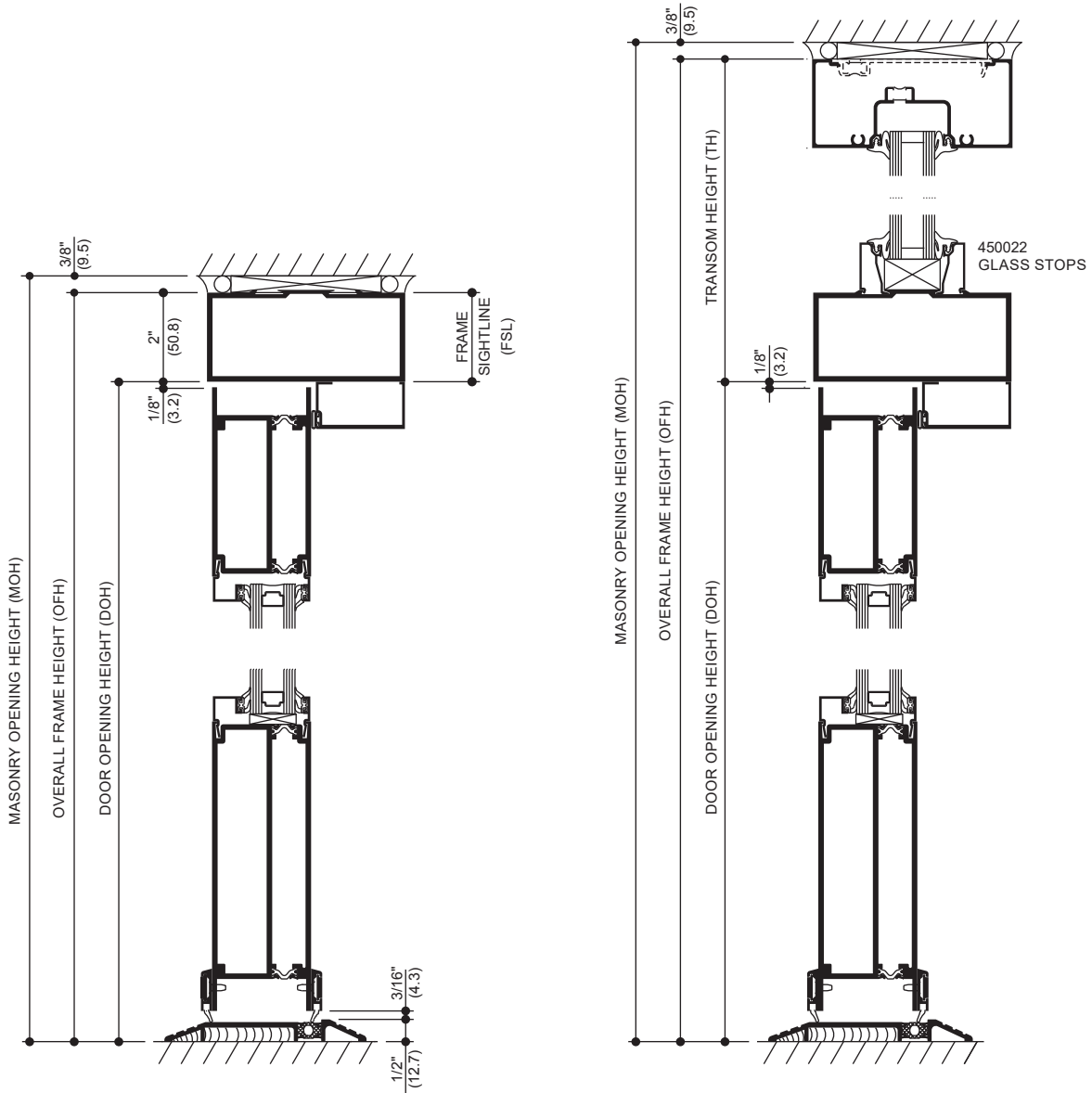
MOW = OFW + 3/4"

**Note:** Dimensions shown above reflect A1 Price Book standard stock door frame height with transom at 10' 3-1/2" (3,137).

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**STANDARD SIZES (TRIFAB® VG 451T CENTER FRAMES)**

**WITHOUT TRANSOM**

Door Opening Dimension (DOH)	
7' 0"	(2,134)
7' 0"	(2,134)
7' 0"	(2,134)

Overall Frame Dimension (OFH)	
7' 2"	(2,184)
7' 2"	(2,184)
7' 2"	(2,184)

Masonry Opening Dimension (MOH)	
7' 2-3/8"	(2,194)
7' 2-3/8"	(2,194)
7' 2-3/8"	(2,194)

**WITHOUT TRANSOM**

OFH = DOH + FSL  
 MOH = OFH + 3/8"

**WITH TRANSOM**

OFH = DOH + TH  
 MOH = OFH + 3/8"

**Note:** Dimensions shown above reflect A1 Price Book standard stock door frame height with transom at 10' 3-1/2" (3,137).

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	STANDARD	OPTIONAL
<b>Doors</b>	Narrow stile 250 doors prepared for attachment hardware.	Wide stile 425.
<b>Door Sizes Std.</b>	Standard sizes shown on pages 8 and 9.	Any size up to 3' 6" x 8' 0" (1,067 x 2,438).
<b>Glass Stops</b>	Square glass stops for 1" (25.4) infill.	
<b>Door Frames</b>	Trifab <sup>®</sup> VG 451T Center - 2" x 4-1/2" (50.8 x 114.3) for double glazing.	Other Kawneer framing system suitable for door frames may be selected, but manufactured per order.
<b>Push-Pulls</b>	<p><b>Single Acting:</b> Architects Classic Hardware CO-9 Pull and CP-II Push Bar.</p> <p>Architects Classic Hardware CO-9 Pull and CP Push Bar.</p>	<p><b>Single Acting:</b> Architects Classic Hardware CO-12 and CP-II push bar.</p> <p>Architects Classic Hardware CO-12 and CP push bar.</p> <p>Architects Classic Hardware CO-9/CO-9 Pulls.</p> <p>Architects Classic Hardware CO-12/CO-12 Pulls.</p>
<b>Door Closers</b>	<p><b>Single Acting:</b> Norton 1601 adjustable or 1601 BF adjustable surface closer with back-check and with or without adjustable hold-open.</p>	<p><b>Single Acting:</b> LCN 1260 adjustable surface closer.</p> <p>LCN 4040 surface closer with or without adjustable hold-open.</p> <p>Standard COC with single scing offset arm.</p> <p>Norton 8100 surface closer with a 50% spring power adjustment (for opening forces of less than 8 pounds). Closer is available with standard back-checks and with or without the hold-open feature.</p> <p>Falcon SC 60 Surface closer.</p>
<b>Hinging</b>	<p><b>Single Acting:</b> Kawneer top and bottom offset pivots (or) Kawneer top and bottom 4-1/2" x 4" (114.3 x 101.6) ball bearing butt hinge with non-removable pin (NRP) (or) Kawneer continuous gear hinge.</p>	
<b>Intermediate Pivots/Butts</b>	<p><b>Single Acting:</b> Kawneer intermediate offset pivot (or) Kawneer 4-1/2" x 4" (114.3 x 101.6) ball bearing butt hinge with non-removable pin (NRP).</p>	<p><b>Single Acting:</b> Rixson M-19 or IVES #7215-INT intermediate offset pivot.</p>
<b>Locks - Active Leaf</b>	Adams-Rite MS 1850A deadlock with two 1-5/32" (29.4) diameter 5 pin cylinders.	<p>Adams-Rite #4510 Latch Lock.</p> <p>Adams-Rite #1850A-505 Hookbolt Lock.</p> <p>Adams-Rite #4015 Two-point Lock.</p> <p>Adams-Rite #4015 &amp; 4016 three-point lock.</p> <p>Adams-Rite #7130 Electric Strike.</p> <p>Kawneer Cylinder Guard.</p> <p>Kawneer Thumbturn (in lieu of cylinder).</p>

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	STANDARD	OPTIONAL
<b>Locks - Inactive Leaf</b>	One pair of Kawneer flush bolts in the inactive leaf of a pair of doors.	
<b>Thresholds</b>	A 1/2" x 4-1/2" (12.7 x 114.3) aluminum mill finish threshold.	
<b>Weathering</b>	<b>Single Acting:</b> Weathering system in the door and frame consisting of a dense, bulb polymeric material, which remains resilient and retains its weathering ability under temperature extremes. Complete with an optional EPDM blade gasket sweep strip applied to both the interior and exterior of the bottom rail with concealed fasteners.	
<b>Exit Device</b>	<p><b>Kawneer 1686 Concealed Rod Exit Device</b> with or without a mortised type cylinder.</p> <p><b>Kawneer 1786 Rim Exit Device</b> is a rim type exit device with or without a rim type cylinder.</p>	<p><b>Kawneer 1686 CD</b> concealed rod exit device available with cylinder dogging.</p> <p><b>Kawneer 1786 CD</b> rim exit device available with cylinder dogging.</p> <p><b>Adams-Rite 8600</b> concealed rod exit device.</p> <p><b>Adams-Rite 8400</b> rim exit device.</p> <p><b>Falcon 1690 Concealed Rod Exit Device</b> with or without rim type cylinder.</p> <p><b>Falcon 1790 Rim Exit Device</b> rim type exit device with or without a rim type cylinder.</p> <p><b>Falcon EL 1690</b> concealed rod exit device with or without a rim type cylinder. The device is designed for electrified access control and is compatible with most key pad and card reader systems.</p> <p><b>Falcon EL 1790</b> rim type exit device with or without a rim type cylinder. The device is designed for electrified access control and is compatible with most key pad and card reader systems.</p> <p><b>Falcon 1990</b> is a concealed rod exit device with or without a rim type cylinder.</p> <p><b>Falcon 2090</b> is a rim type exit device with or without a rim type cylinder.</p> <p><b>Von Duprin 33</b> concealed rod exit device with or without night latch assembly.</p> <p><b>Von Duprin 99</b> concealed rod exit device with or without night latch assembly.</p>
	<b>Exit Device Pulls:</b> Architects Classic CO-9 Pull.	<b>Optional Exit Device Pulls:</b> Architects Classic CO-12 Pull.

**Reference Hardware section for additional information**

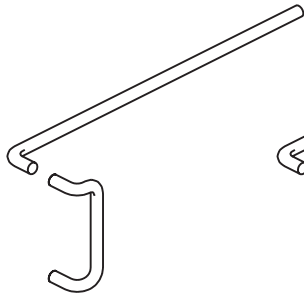
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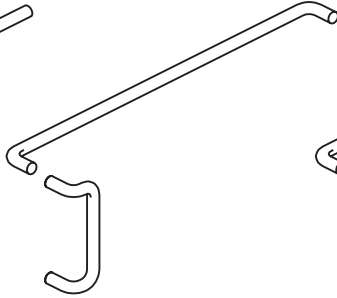
**ARCHITECTS CLASSIC (PUSH PULL SETS)**

SINGLE ACTING DOORS USE A PULL HANDLE AND PUSH BAR.

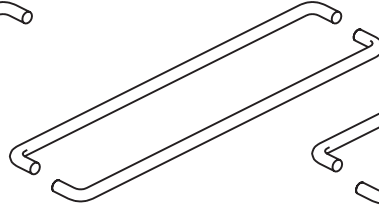
Refer to **HARDWARE SECTION** for complete hardware information.



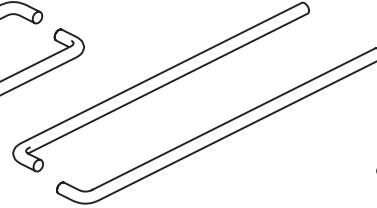
CO-9 / CP  
CO-12 / CP



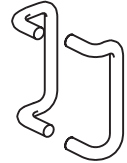
CO-9 / CP-II  
CO-12 / CP-II



CP-II / CP-II

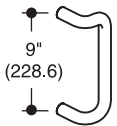


CP / CP

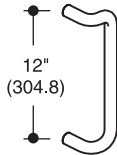


CO-9 / CO-9  
CO-12 / CO-12

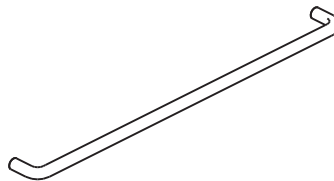
**ARCHITECTS CLASSIC (COMPONENTS)**



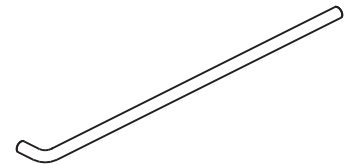
CO-9 PULL



CO-12 PULL



CP-II PUSH BAR

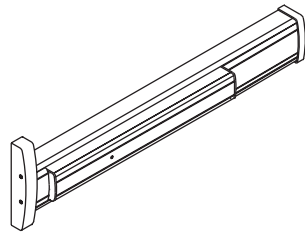


CP PUSH BAR

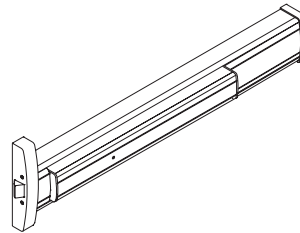
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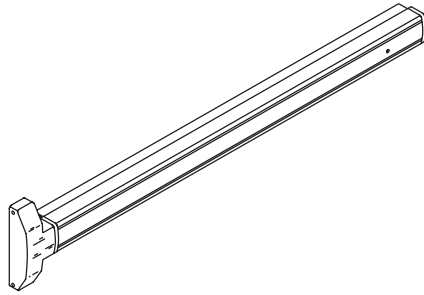
EXIT DEVICES and EXIT DEVICE PULLS



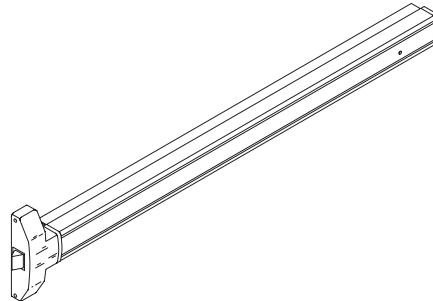
CONCEALED ROD EXIT DEVICE  
Kawneer 1686  
Kawneer 1686 CD



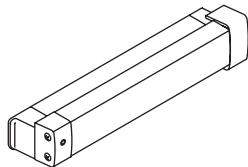
RIM LATCH EXIT DEVICE  
Kawneer 1786  
Kawneer 1786 CD



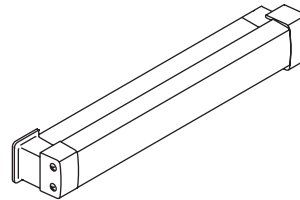
CONCEALED ROD EXIT DEVICE  
Falcon 1690  
Falcon EL 1690



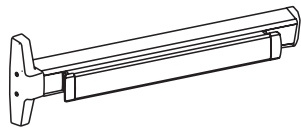
RIM LATCH EXIT DEVICE  
Falcon 1790  
Falcon EL 1790



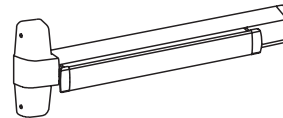
MORTISE EXIT DEVICE  
Adams-Rite 8400



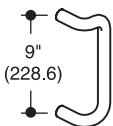
CONCEALED EXIT DEVICE  
Adams-Rite 8600



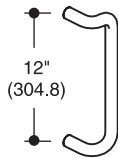
CONCEALED EXIT DEVICE  
Von Duprin 3347A



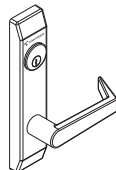
CONCEALED EXIT DEVICE  
Von Duprin 9947



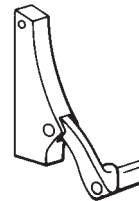
CO-9 PULL



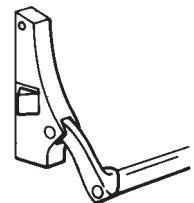
CO-12 PULL



LEVER HANDLE  
Kawneer 1686  
Kawneer 1786



CONCEALED ROD EXIT DEVICE  
Falcon 1990



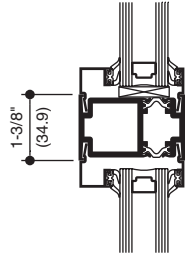
RIM LATCH EXIT DEVICE  
Falcon 2090

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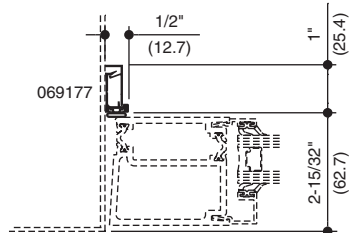
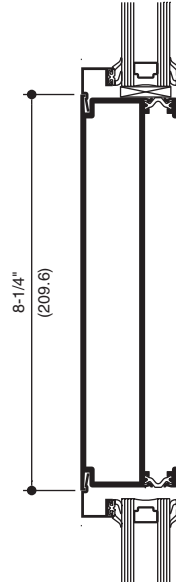
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Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

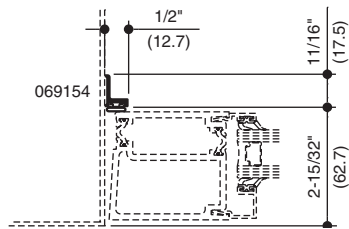
1-3/8" CROSSRAIL



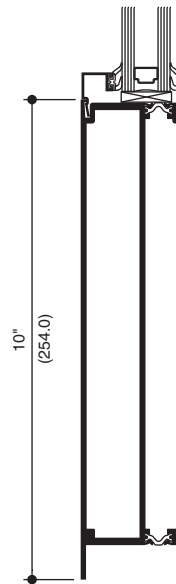
8-1/4" CROSSRAIL



APPLIED DOOR STOP



APPLIED DOOR STOP

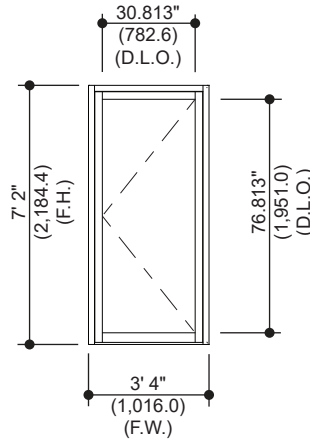


10" BOTTOM RAIL

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



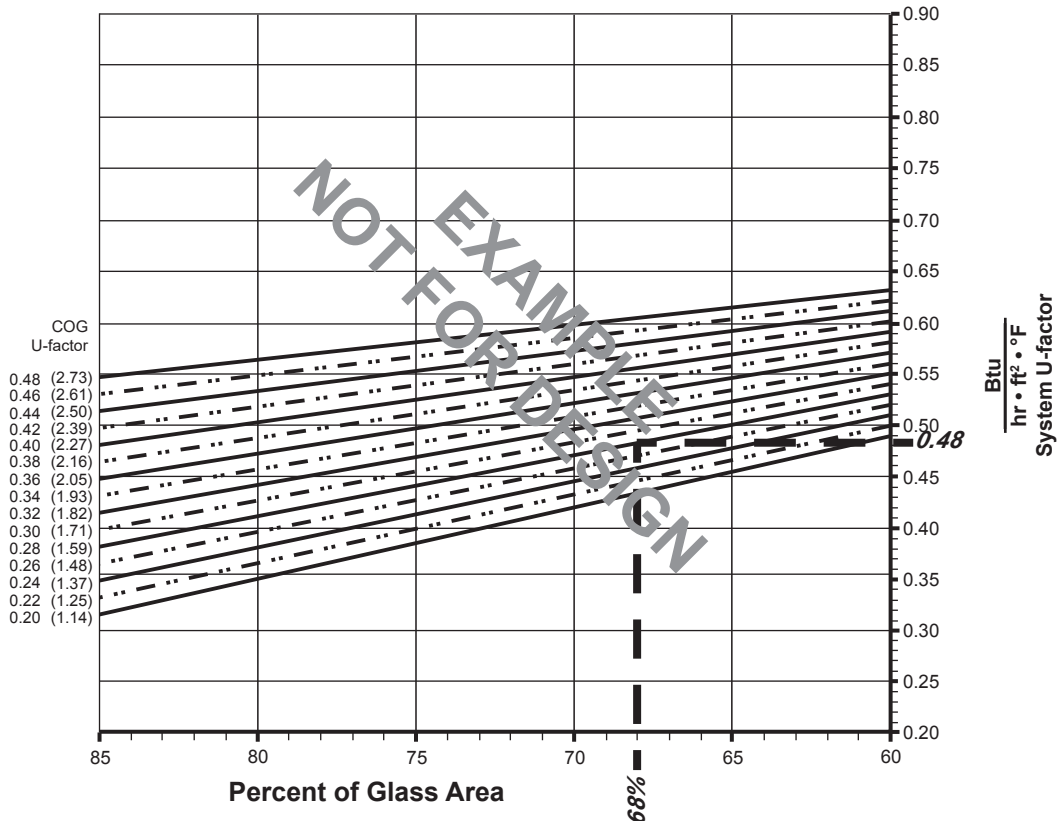
Example Glass U-Factor = 0.28 Btu/hr • ft<sup>2</sup> • °F

Total Daylight Opening = 30.813" x 76.813" = 16.44 ft<sup>2</sup>

Total Projected Area = 3' 4" x 7' 2" = 23.9 ft<sup>2</sup>

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)100  
 = (16.44 ÷ 23.9)100 = 68%

**System U-factor vs Percent of Glass Area**



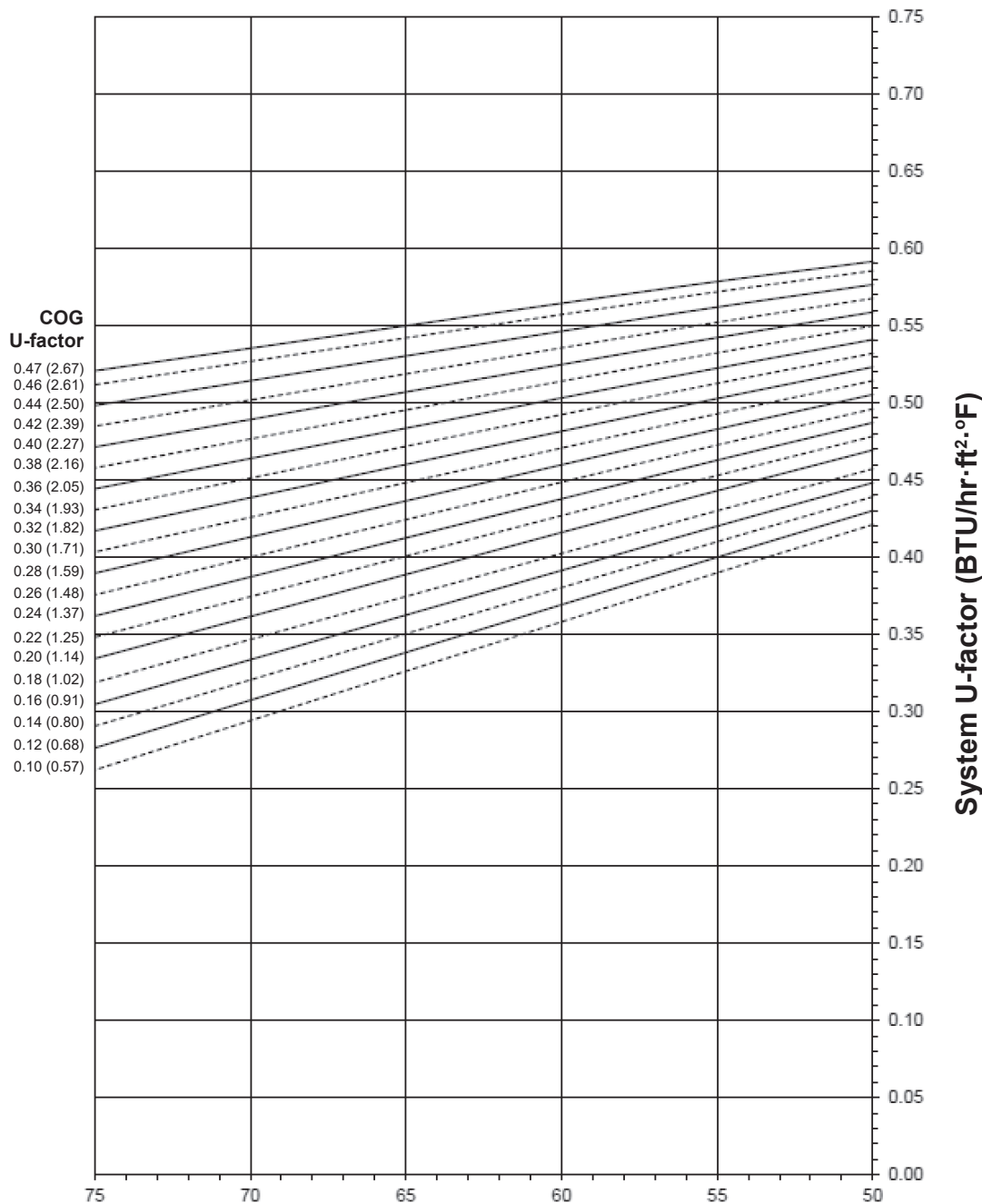
Based on 68% glass and center of glass (COG) U-factor of 0.28  
 System U-factor is equal to 0.48 Btu/hr • ft<sup>2</sup> • °F

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

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AA®250 (SINGLE DOOR)

**System U-factor vs Percent of Glass Area**



**Percent of Glass = Vision Area/Total Area  
(Total Daylight Opening / Projected Area)**

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

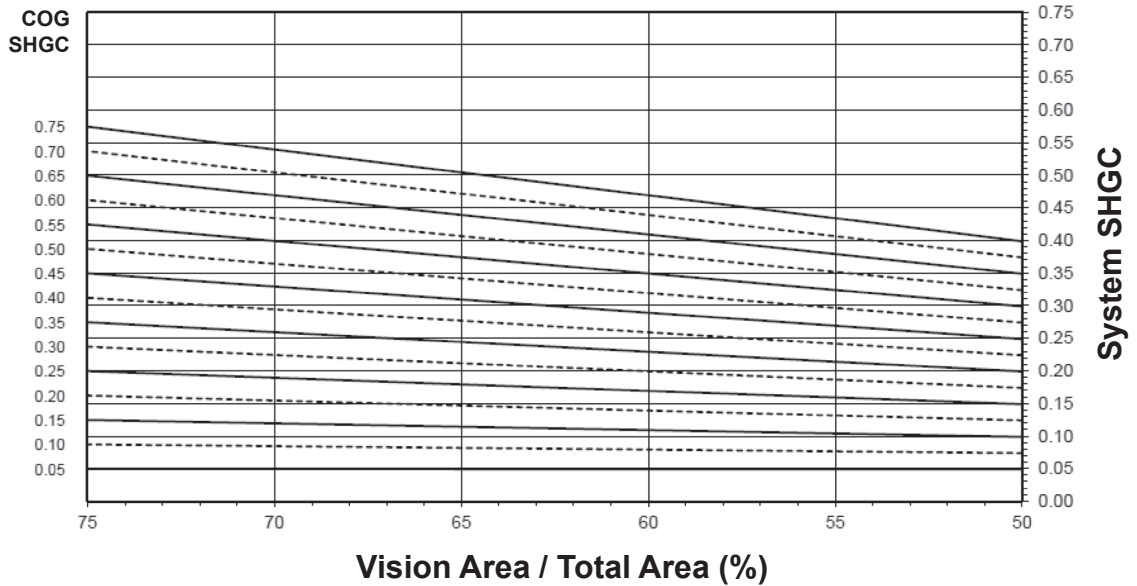
For glass values that are not listed, linear interpolation is permitted.  
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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

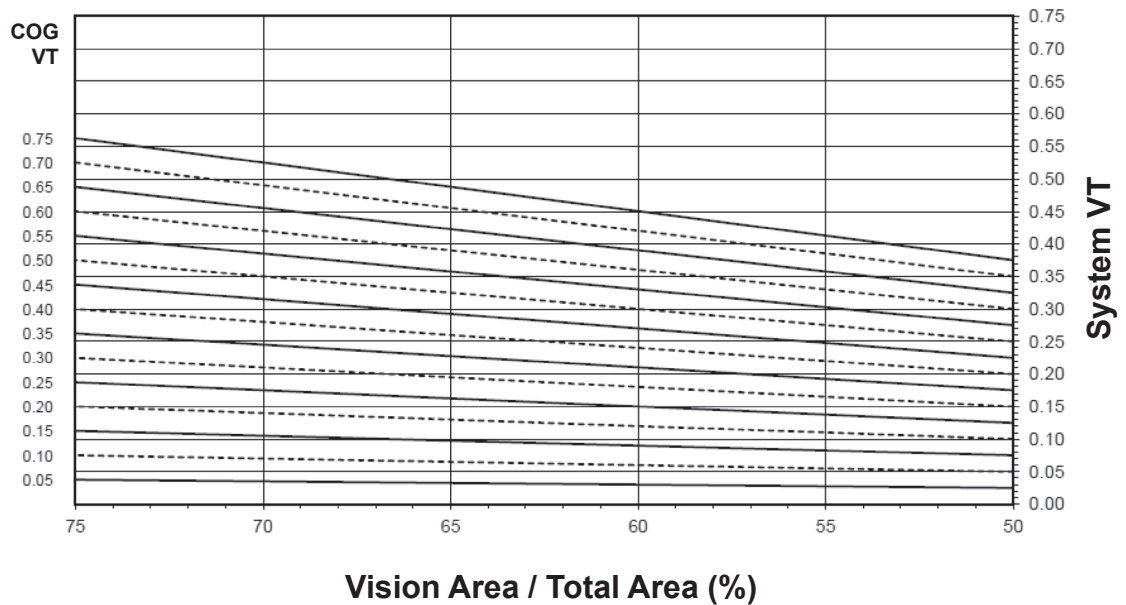
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AA® 250 (SINGLE DOOR)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.57
0.46	0.57
0.44	0.55
0.42	0.54
0.40	0.53
0.38	0.52
0.36	0.51
0.34	0.50
0.32	0.49
0.30	0.48
0.28	0.47
0.26	0.46
0.24	0.46
0.22	0.44
0.20	0.43
0.18	0.42
0.16	0.41
0.14	0.40
0.12	0.39
0.10	0.38

## AA®250 (SINGLE DOOR)

**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 960 mm wide by 2,090 mm high (37-3/4" by 82-3/8").

SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.45
0.70	0.42
0.65	0.39
0.60	0.36
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.22
0.30	0.19
0.25	0.16
0.20	0.13
0.15	0.11
0.10	0.08
0.05	0.05

Visible Transmittance <sup>2</sup>

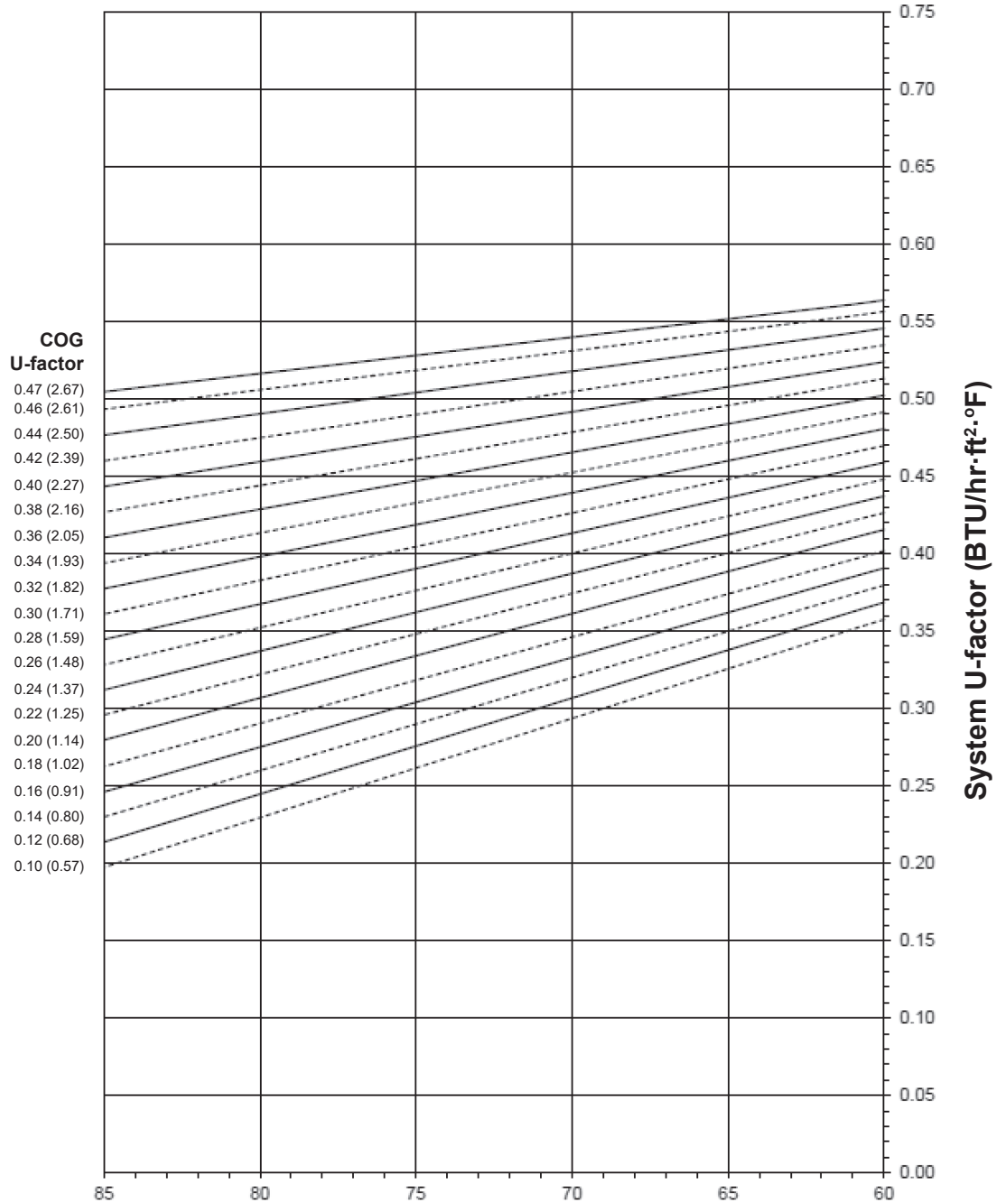
Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.43
0.70	0.40
0.65	0.37
0.60	0.34
0.55	0.31
0.50	0.29
0.45	0.26
0.40	0.23
0.35	0.20
0.30	0.17
0.25	0.14
0.20	0.11
0.15	0.09
0.10	0.06
0.05	0.03

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

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AA® 250 (PAIR OF DOORS)

System U-factor vs Percent of Glass Area



Percent of Glass = Vision Area/Total Area  
(Total Daylight Opening / Projected Area)

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

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

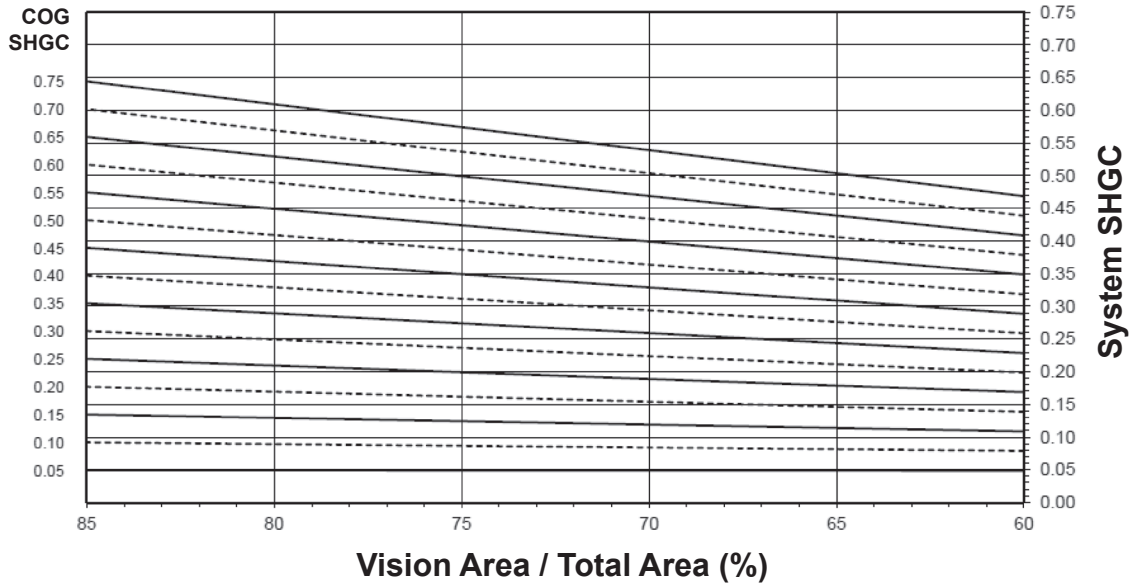
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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

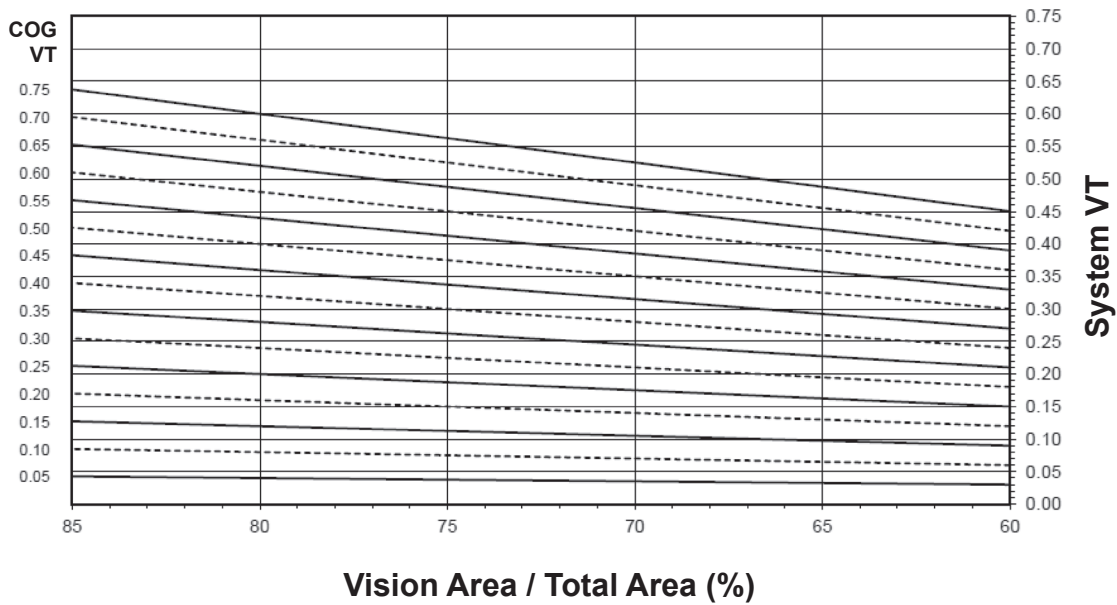
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AA<sup>®</sup>250 (PAIR OF DOORS)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

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**Thermal Transmittance <sup>1</sup> (BTU/hr • ft <sup>2</sup> • °F)**

**AA®250 (PAIR OF DOORS)**

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.56
0.46	0.55
0.44	0.54
0.42	0.53
0.40	0.52
0.38	0.51
0.36	0.50
0.34	0.49
0.32	0.48
0.30	0.46
0.28	0.45
0.26	0.44
0.24	0.43
0.22	0.42
0.20	0.41
0.18	0.39
0.16	0.38
0.14	0.37
0.12	0.36
0.10	0.35

**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 1,920 mm wide by 2,090 mm high (75-1/2" by 82-3/8").

**SHGC Matrix <sup>2</sup>**

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.48
0.70	0.45
0.65	0.42
0.60	0.39
0.55	0.36
0.50	0.32
0.45	0.29
0.40	0.26
0.35	0.23
0.30	0.20
0.25	0.17
0.20	0.14
0.15	0.11
0.10	0.08
0.05	0.05

**Visible Transmittance <sup>2</sup>**

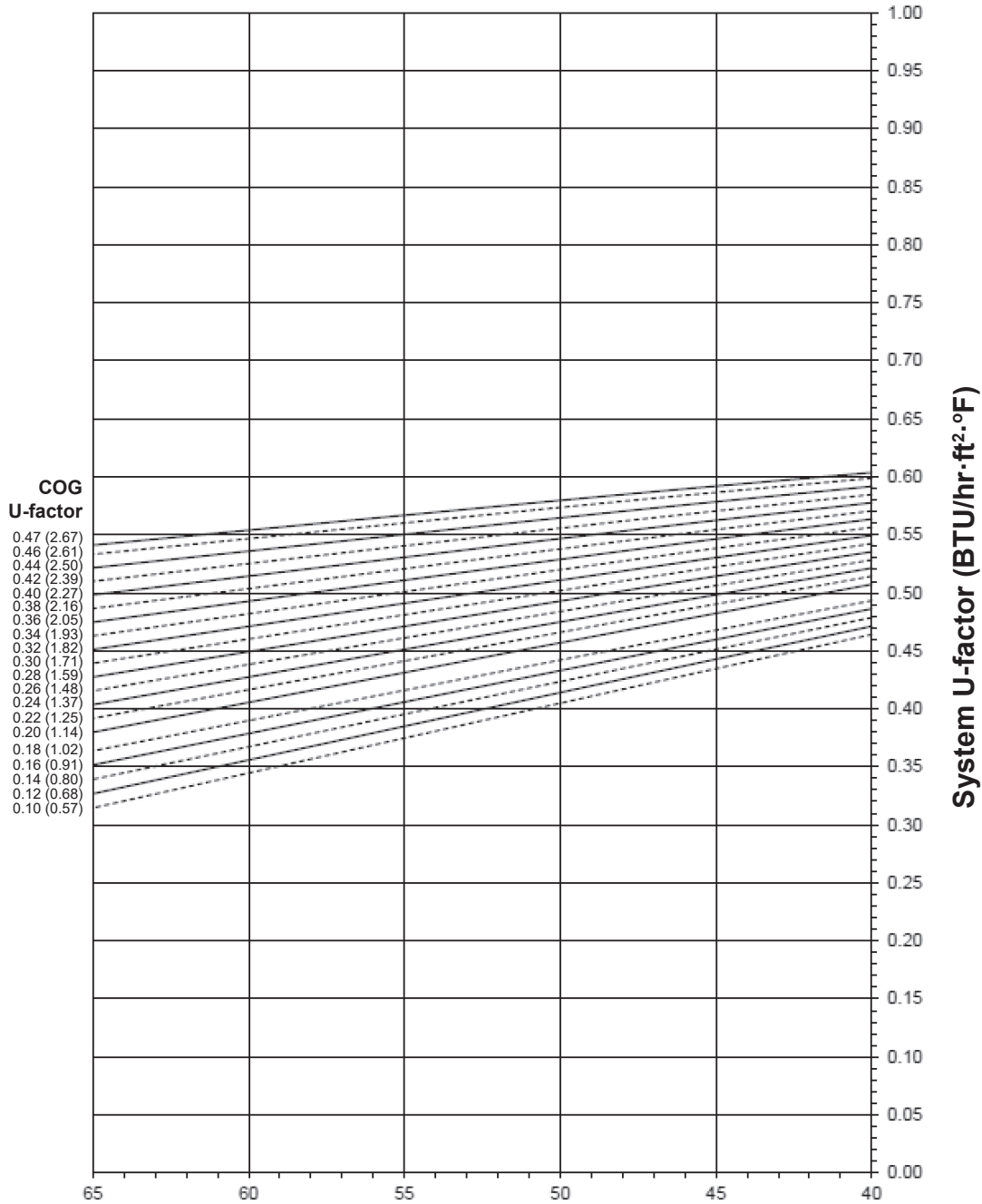
Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.46
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.21
0.30	0.18
0.25	0.15
0.20	0.12
0.15	0.09
0.10	0.06
0.05	0.03

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

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AA<sup>®</sup>425 (SINGLE DOOR)

**System U-factor vs Percent of Glass Area**



**Percent of Glass = Vision Area/Total Area  
(Total Daylight Opening / Projected Area)**

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

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

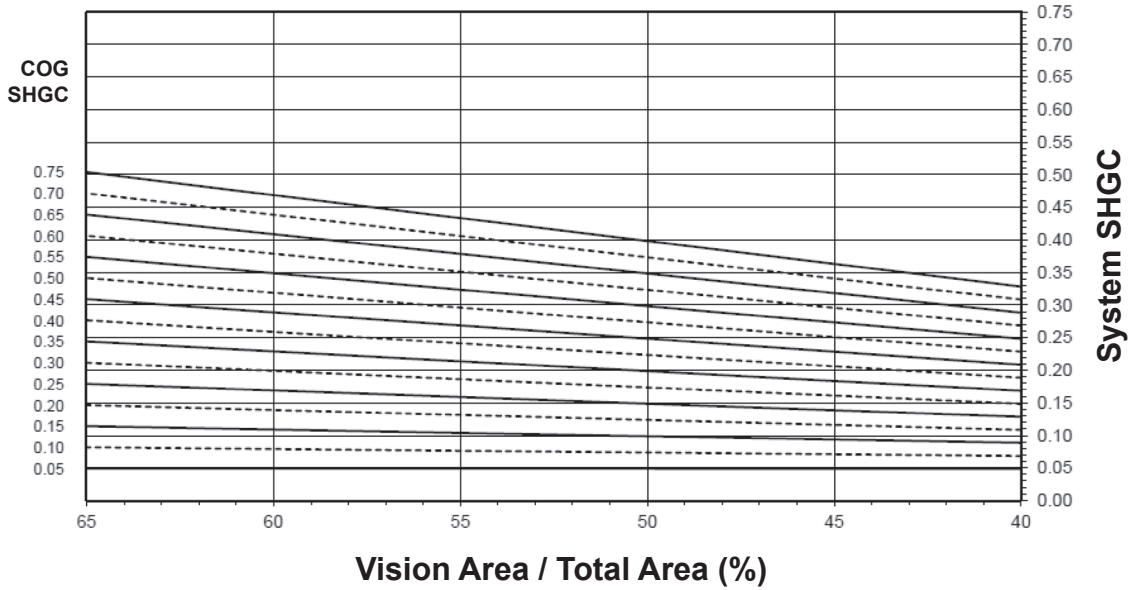
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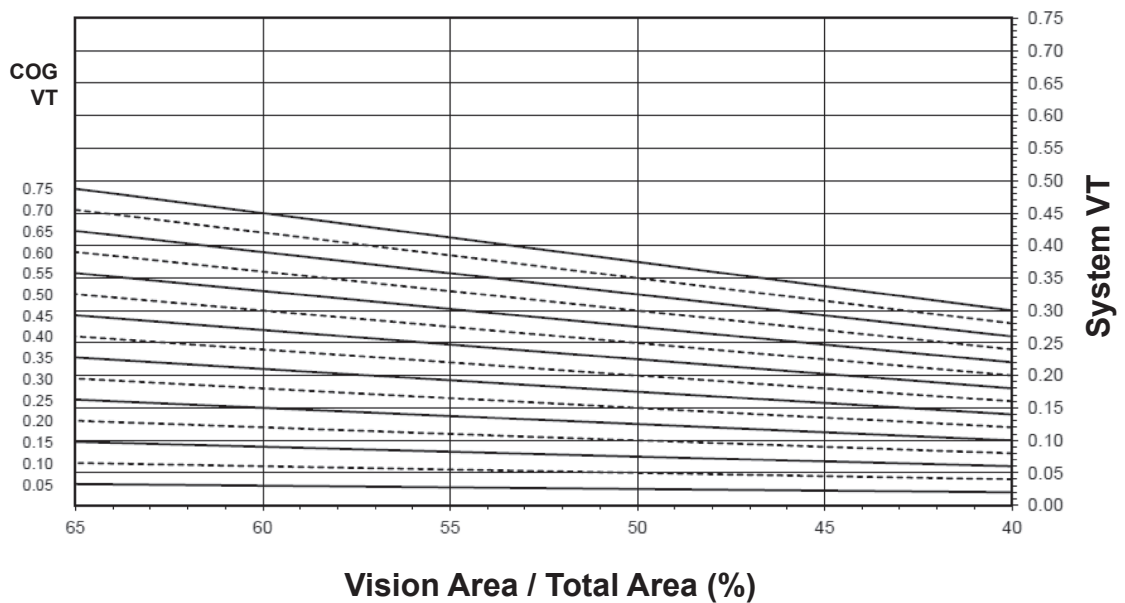
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AA® 425 (SINGLE DOOR)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.58
0.46	0.58
0.44	0.57
0.42	0.56
0.40	0.55
0.38	0.54
0.36	0.53
0.34	0.52
0.32	0.51
0.30	0.51
0.28	0.50
0.26	0.49
0.24	0.48
0.22	0.47
0.20	0.46
0.18	0.44
0.16	0.43
0.14	0.43
0.12	0.42
0.10	0.41

## AA®425 (SINGLE DOOR)

**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 960 mm wide by 2,090 mm high (37-3/4" by 82-3/8").

SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.39
0.70	0.36
0.65	0.34
0.60	0.32
0.55	0.29
0.50	0.27
0.45	0.24
0.40	0.22
0.35	0.19
0.30	0.17
0.25	0.15
0.20	0.12
0.15	0.10
0.10	0.07
0.05	0.05

Visible Transmittance <sup>2</sup>

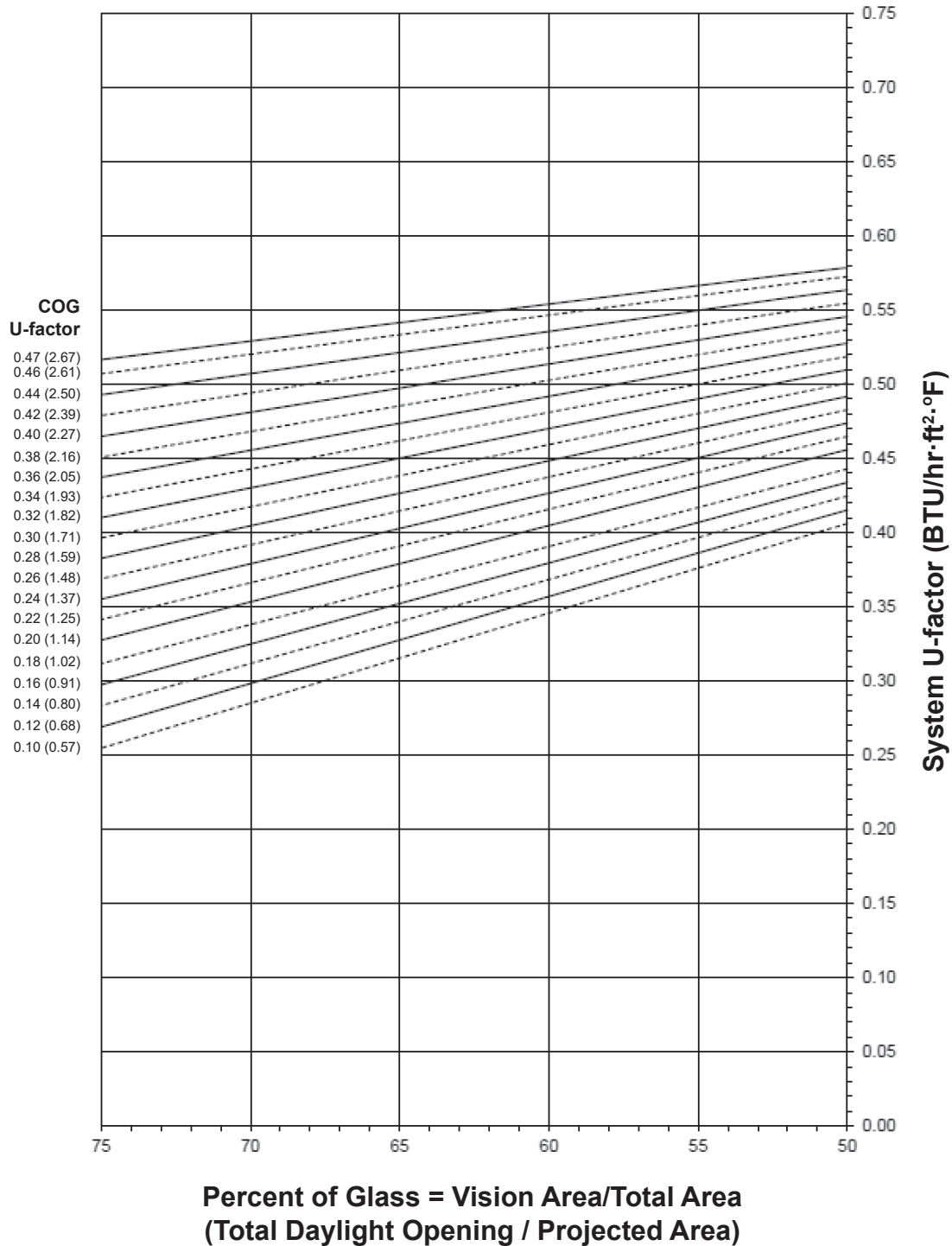
Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.36
0.70	0.34
0.65	0.32
0.60	0.29
0.55	0.27
0.50	0.24
0.45	0.22
0.40	0.19
0.35	0.17
0.30	0.15
0.25	0.12
0.20	0.10
0.15	0.07
0.10	0.05
0.05	0.02

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

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AA®425 (PAIR OF DOORS)

**System U-factor vs Percent of Glass Area**



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

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

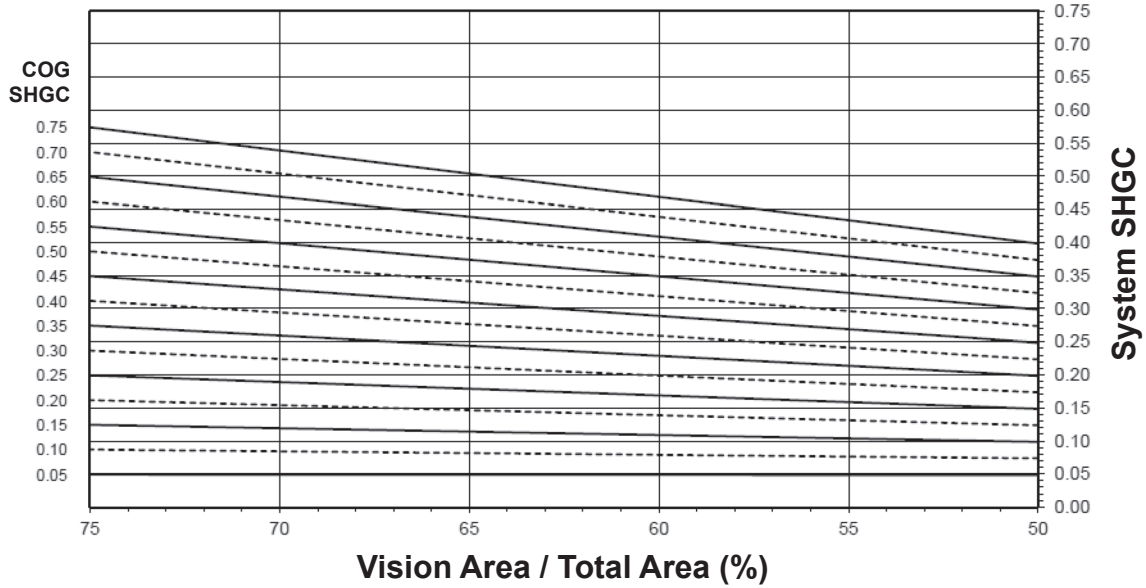
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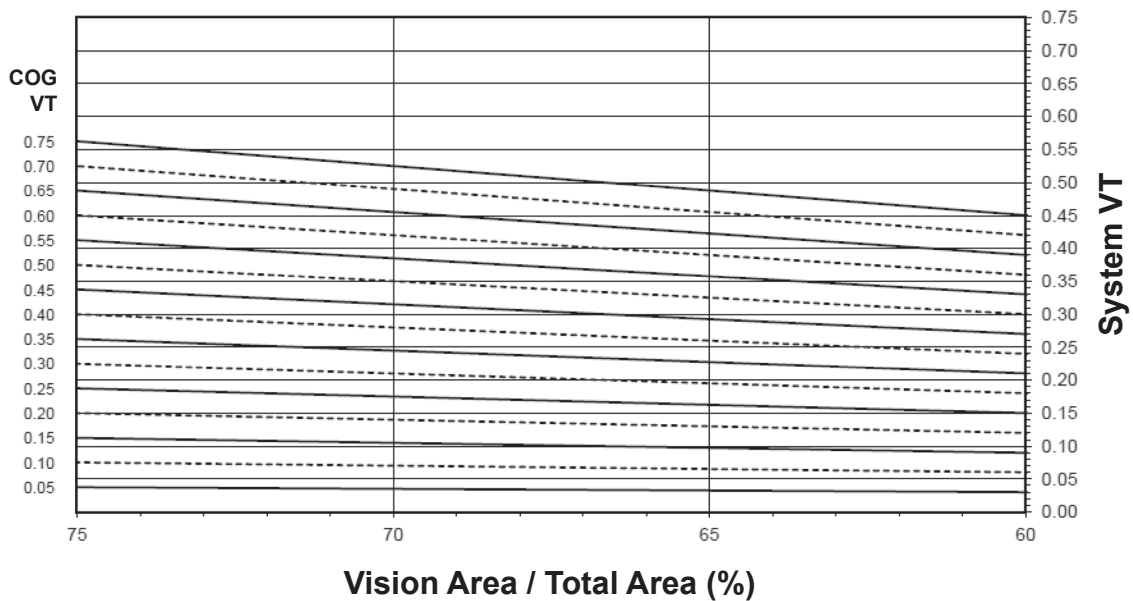
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AA®425 (PAIR OF DOORS)

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



**System Visible Transmittance (VT) vs Percent of Vision Area**



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**Thermal Transmittance <sup>1</sup> (BTU/hr • ft <sup>2</sup> • °F)**

**AA® 425 (PAIR OF DOORS)**

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.57
0.46	0.57
0.44	0.56
0.42	0.55
0.40	0.54
0.38	0.53
0.36	0.52
0.34	0.51
0.32	0.50
0.30	0.49
0.28	0.48
0.26	0.47
0.24	0.46
0.22	0.45
0.20	0.44
0.18	0.43
0.16	0.42
0.14	0.41
0.12	0.40
0.10	0.39

**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 1,920 mm wide by 2,090 mm high (75-1/2" by 82-3/8").

**SHGC Matrix <sup>2</sup>**

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.42
0.70	0.39
0.65	0.36
0.60	0.34
0.55	0.31
0.50	0.28
0.45	0.26
0.40	0.23
0.35	0.21
0.30	0.18
0.25	0.15
0.20	0.13
0.15	0.10
0.10	0.07
0.05	0.05

**Visible Transmittance <sup>2</sup>**

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.39
0.70	0.37
0.65	0.34
0.60	0.32
0.55	0.29
0.50	0.26
0.45	0.24
0.40	0.21
0.35	0.18
0.30	0.16
0.25	0.13
0.20	0.11
0.15	0.08
0.10	0.05
0.05	0.03

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