

**Features**

- 260 Insulclad® has 2-11/16" (68.3) vertical stile, 2-13/16" (71.4) top and 4-7/16" (112.7) bottom rail
- 360 Insulclad® has 4-1/16" (103.2) vertical stile, 4-1/16" (103.2) top and 7-1/16" (179.4) bottom rail
- 560 Insulclad® has 5-9/16" (141.3) vertical stile, 5-9/16" (141.3) top and 7-1/16" (179.4) bottom rail
- Door is 2-1/4" (57.2) deep
- Dual moment welded corner construction
- Door incorporates an extruded PVC thermal break
- Single acting
- 1" (25.4) infill
- Offset pivots, butt hinges or continuous geared hinge
- MS locks or Exit Device hardware
- Surface mounted or concealed closers
- Architects Classic push/pulls
- Adjustable astragal utilizing pile weathering with polymeric fin at meeting stiles
- Polymeric bulb weatherstripping in door frames
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

**Optional Features**

- Variety of bottom rail and cross rails
- Two-color finish capability

**Product Applications**

- 260 Insulclad® – engineered for thermal efficiency in moderate traffic applications such as offices, stores and apartment buildings
- 360 Insulclad® – provides thermal efficiency and extra strength for schools, institutions and other high traffic applications.
- 560 Insulclad® – designed for thermal efficiency with a monumental visual statement for banks, libraries or buildings that experience heavy traffic conditions

For specific product applications,  
consult your Kawneer representative.

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**PICTORIAL VIEW .....5**

**DOOR TYPES/SECT. DIMENSIONS .....6**

**CONSTRUCTION DETAILS .....7**

**STANDARD ENTRANCE PACKAGES .....8, 9**

**HARDWARE STANDARDS .....10, 11**

**PUSH PULL HARDWARE .....12**

**EXIT DEVICE .....13**

**OPTIONAL DOOR DETAILS .....14**

**WINDLOAD/DEADLOAD CHARTS .....15**

**THERMAL CHARTS ..... 16-25**

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

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

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

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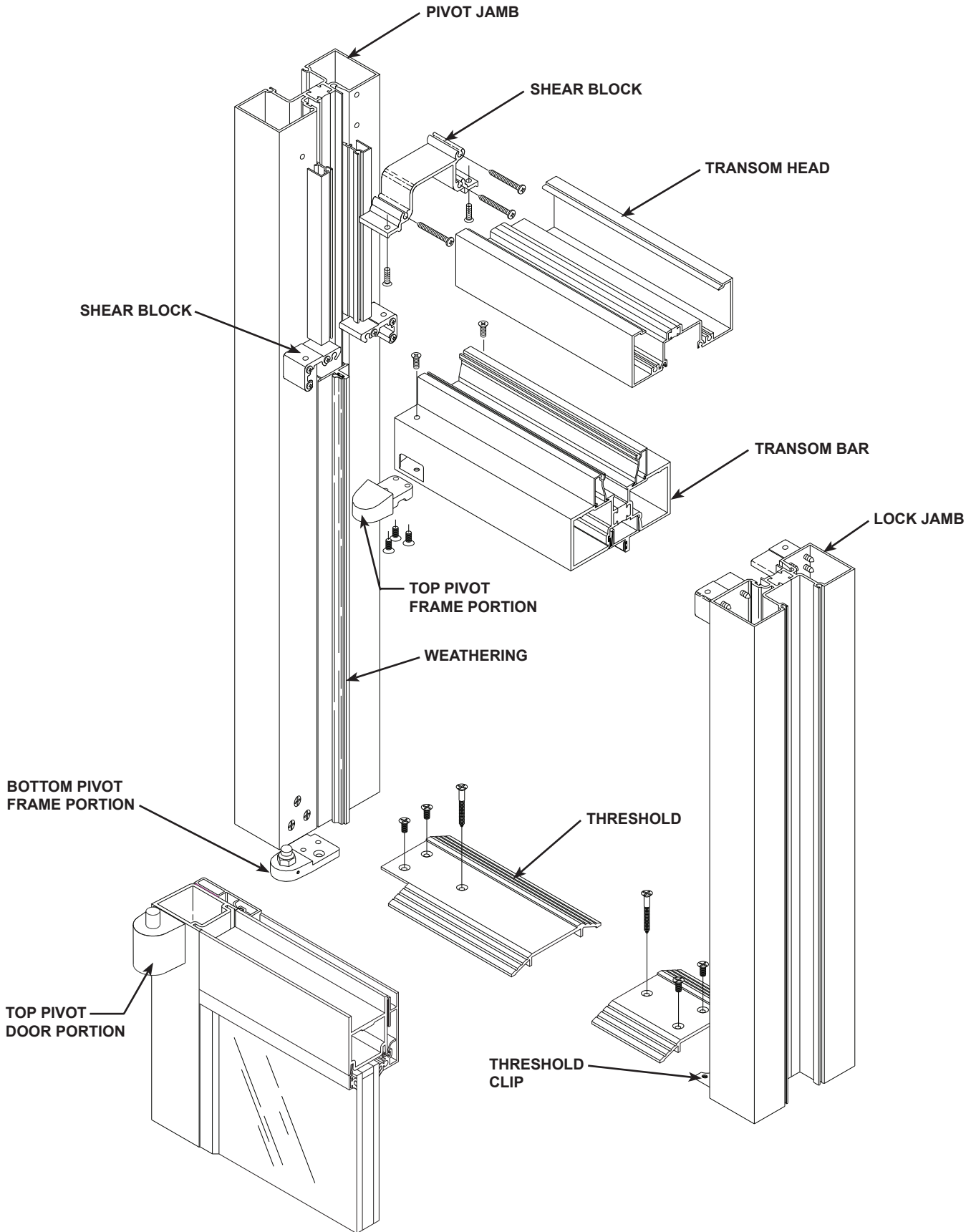
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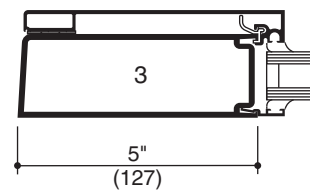
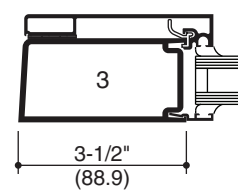
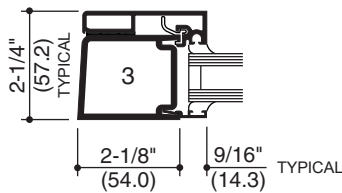
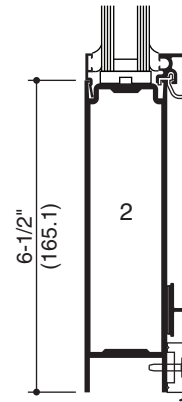
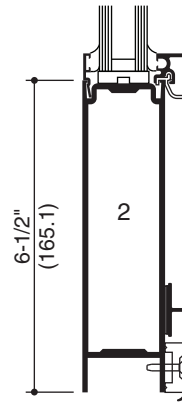
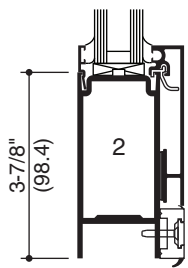
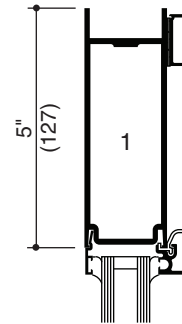
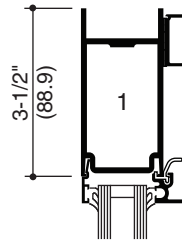
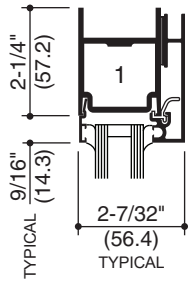
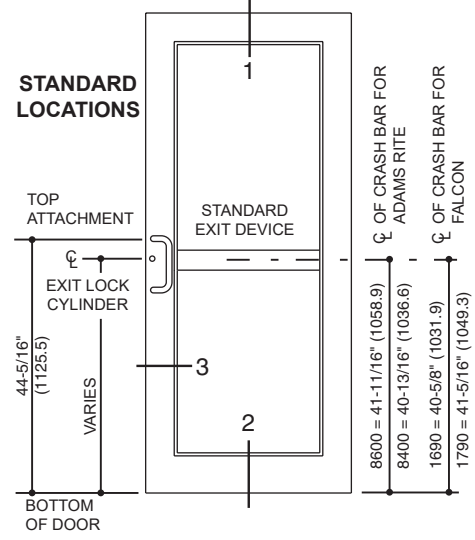
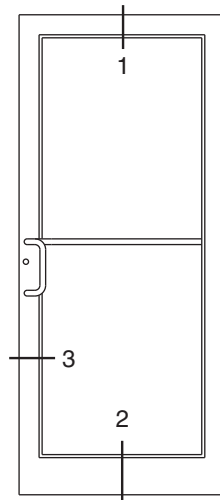
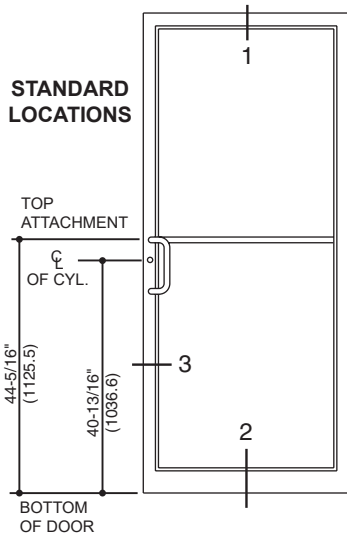
**INSULCLAD® 260 DOOR**

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

260 NARROW STILE

360 MEDIUM STILE

560 WIDE STILE



SINGLE ACTING

SINGLE ACTING

SINGLE ACTING

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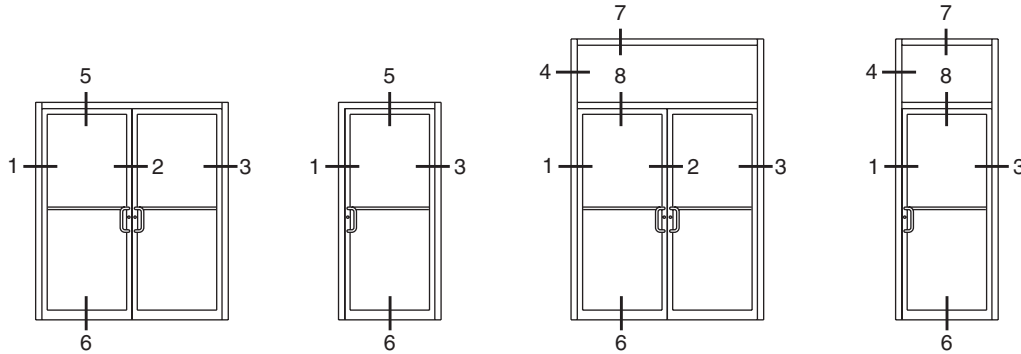
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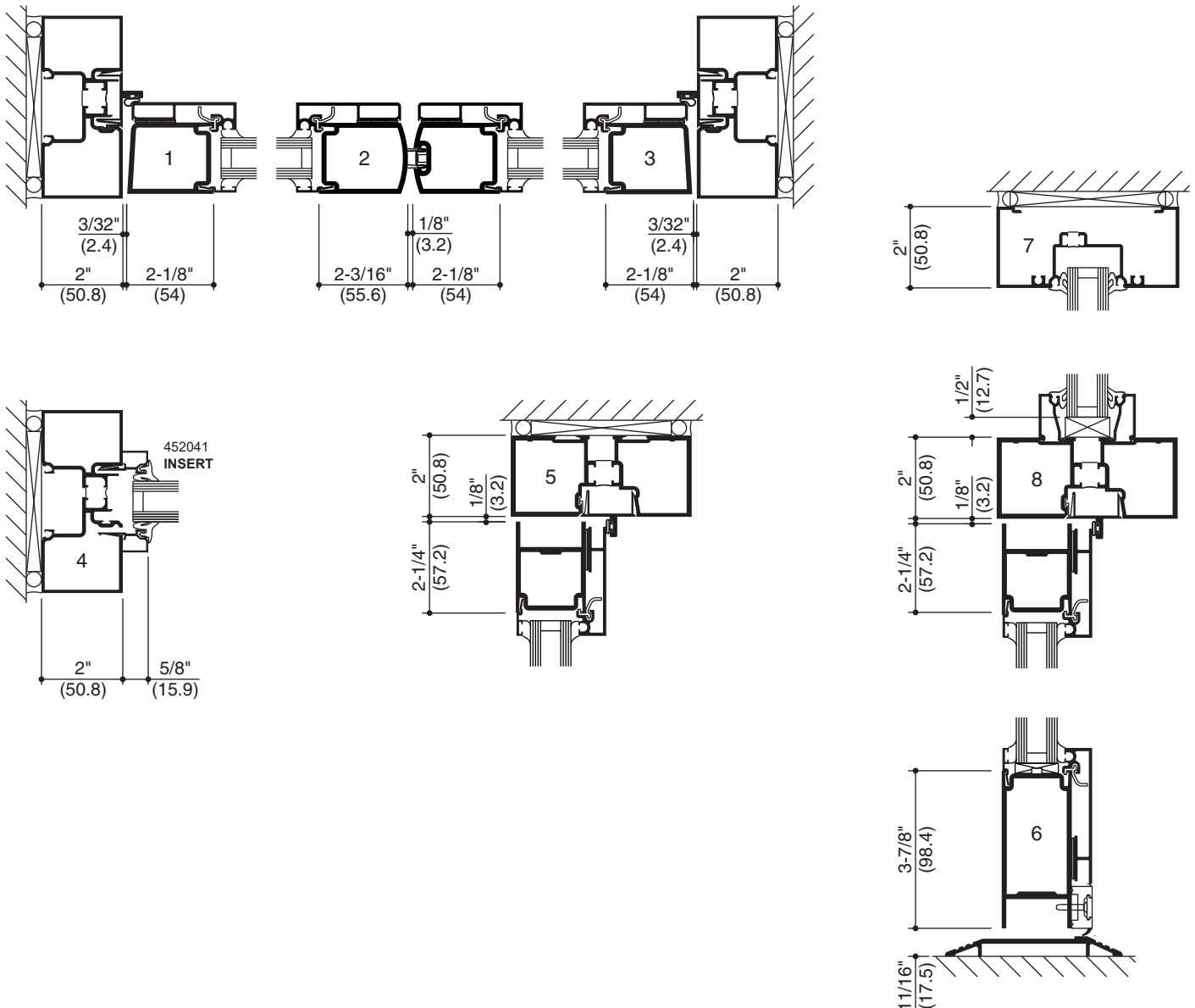
TRIFAB® VERSAGLAZE® 451T CENTER FRAMING SHOWN. 260 INSULCLAD SHOWN, 360 AND 560 INSULCLAD SIMILAR. OTHER FRAMING OPTIONS AVAILABLE. CONSULT YOUR KAWNEER REPRESENTATIVE.

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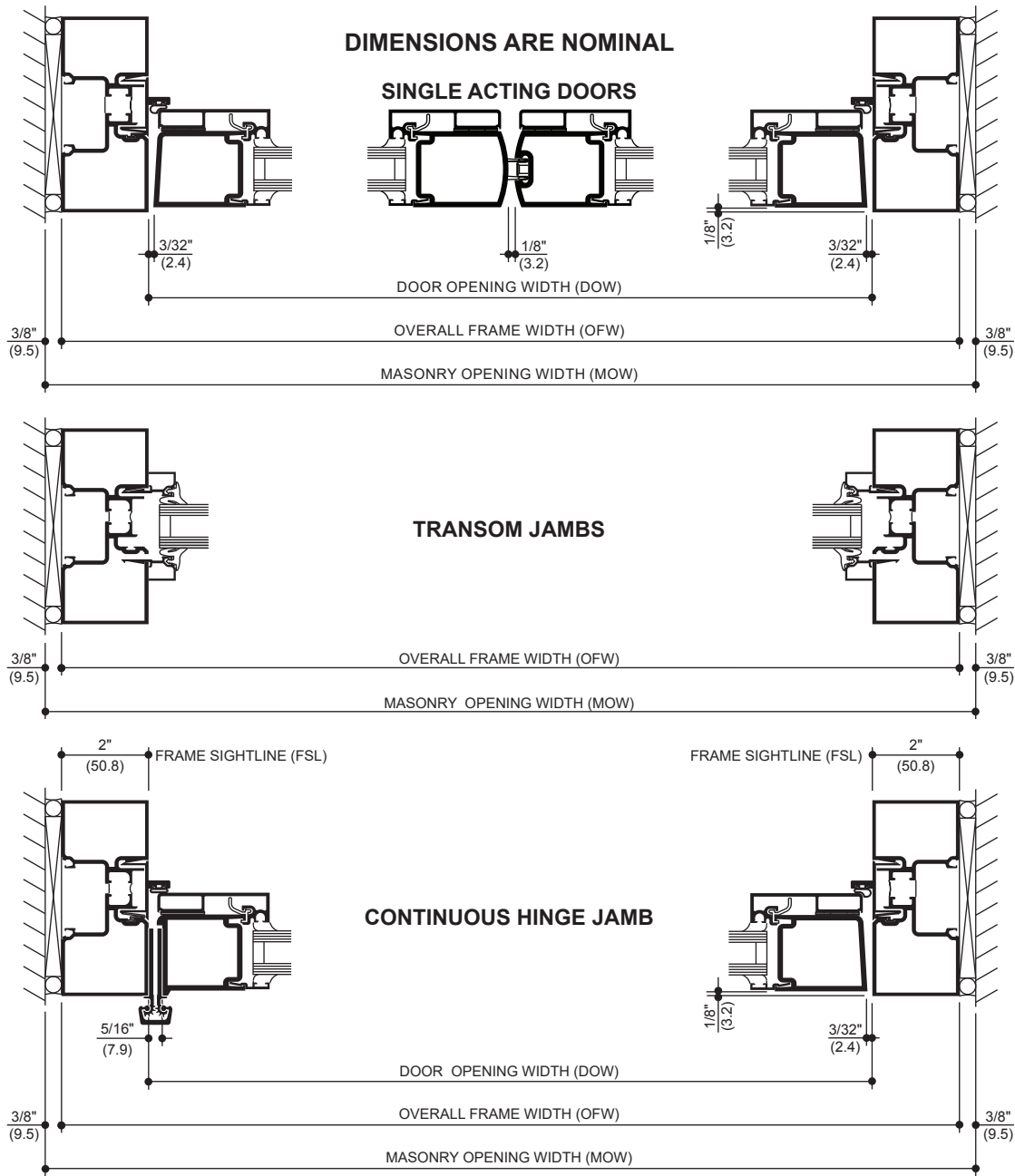
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ELEVATION IS NUMBER KEYED TO DETAILS.



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

**WITH AND WITHOUT TRANSOM**

Door Opening Dimension (DOW)	Overall Frame Dimension (OFW)	Masonry Opening Dimension (MOW)
3' 0" (914)	3' 4" (1,016)	3' 4-3/4" (1,035)
3' 6" (1,067)	3' 10" (1,168)	3' 10-3/4" (1,187)
6' 0" (1,829)	6' 4" (1,930)	6' 4-3/4" (1,949)

**WITH AND WITHOUT TRANSOM**

OFW = DOW + 2 FSL

MOW = OFW + 3/4"

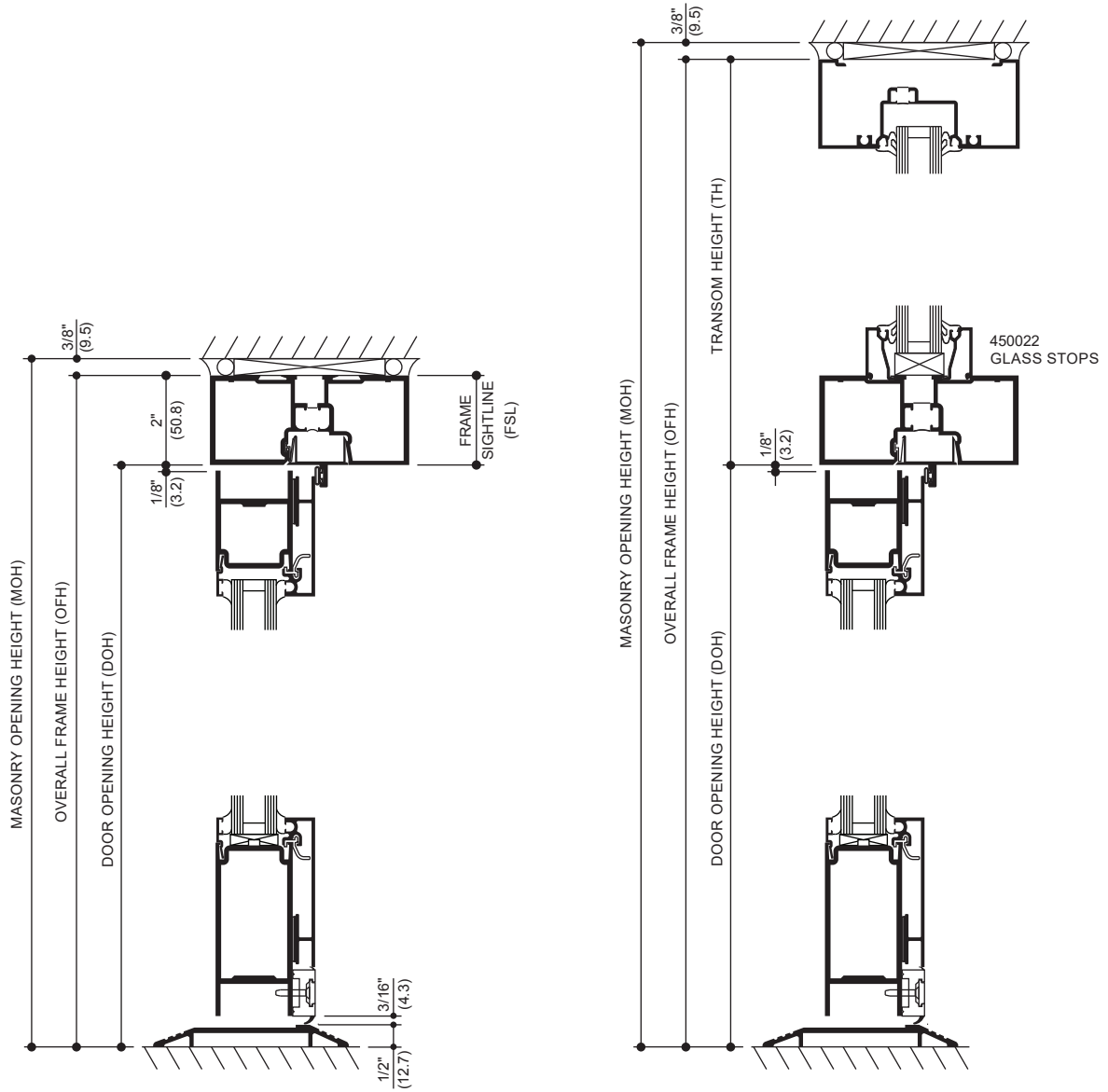
**Note:** Dimensions shown above reflect A1 Price Book standard stock door frame height with transom at 10' 3-1/2" (3,137).

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**STANDARD SIZES (TRIFAB® VERSAGLAZE® 451 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 260 doors prepared for attachment hardware.	Medium stile 360 or wide stile 560.
<b>Door Sizes Std.</b>	Standard sizes shown on pages 8 and 9.	Any size up to 3' 6" x 8' (1,067 x 2,438)
<b>Glass Stops</b>	Square glass stops for 1" (25.4) infill.	
<b>Door Frames</b>	Trifab® VG 451T Center - 2" x 4-1/2" (50.8 x 114.3) for double glazing.	Other Kawneer framing systems suitable for door frames may be used.
<b>Push-Pulls</b>	<b>Single Acting:</b> Architects Classic Hardware CO-9 Pull and CP-II Push Bar.  Architects Classic Hardware CO-9 Pull and CP Push Bar.	<b>Single Acting:</b> Architects Classic Hardware CO-12 and CP-II push bar.  Architects Classic Hardware CO-12 and CP push bar.  Architects Classic Hardware CO-9/CO-9 Pulls.  Architects Classic Hardware CO-12/CO-12 Pulls.
<b>Door Closers</b>	<b>Single Acting:</b> Norton 1601 adjustable or 1601 BF adjustable surface closer with back-check and with or without adjustable hold-open.	<b>Single Acting:</b> LCN 1260 adjustable  LCN 4040 surface closer with or without adjustable hold-open.  Standard COC with single acting offset arm.  Norton 8100 surface closer with 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.  Falcon SC 60 surface closer.
<b>Hinging</b>	<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) Continuous Hinge.	
<b>Intermediate Pivots/Butts</b>	<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).	<b>Single Acting:</b> Rixson M-19 or IVES #7215-INT intermediate offset pivot.
<b>Power Transfers</b>	<b>Single Acting:</b> Kawneer EL intermediate offset pivot (or) Kawneer EL 4-1/2" x 4" (114.3 x 101.6) ball bearing butt hinge with wire transfer (or) EPT (Electric Power Transfer).	
<b>Power Supply</b>	<b>SP-1000X Power Supply:</b> For use with EL exit devices.	
<b>Locks - Active Leaf</b>	Adams-Rite MS 1850A deadlock with two 1-5/32" (29.4) diameter 5 pin cylinders.	Adams-Rite #4510 latch lock. Adams-Rite #1850A-500 short throw deadlock. Adams-Rite #1850A-505 hookbolt lock. Adams-Rite #4015 two-point Lock. Adams-Rite #4085 three-point Lock. Kawneer cylinder guard. Kawneer thumbturn (in lieu of cylinder).

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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>Controller®</b> is a 3-point locking system consisting of a two point locking device in the inactive leaf in lieu of flush bolts, working in conjunction with the MS 1850A deadlock in the active leaf. This combination provides for greater security than possible with flush bolts and complies with the life safety considerations of building codes which prohibit the use of flush bolts.
<b>Thresholds</b>	A 1/2" x 4" (12.7 x 101.6) 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 EPDM blade gasket sweep strip applied to the bottom door rail with concealed fasteners).	
<b>Exit Device</b>	<b>Falcon 1690 Concealed Rod Exit Device</b> with or without a rim type cylinder.  <b>Falcon 1790 Rim Exit Device</b> is a rim type exit device with or without a rim type cylinder.	<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.  <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.  <b>Falcon 1990</b> is a concealed rod exit device with or without a rim type cylinder.  <b>Falcon 2090</b> is a rim type exit device with or without a rim type cylinder.  <b>Adams Rite 8600</b> is a concealed rod exit device with or without a rim type cylinder.  <b>Adams Rite 8400</b> is a rim type exit device with or without a rim type cylinder.
	<b>Exit Device Pulls:</b>  Architects Classic CO-9 Pull.	<b>Optional Exit Device Pulls:</b>  Architects Classic CO-12 Pull.

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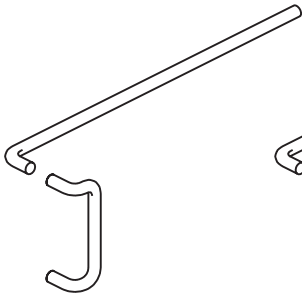
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Reference Hardware section for additional information

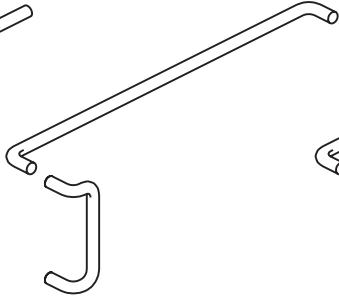
**ARCHITECTS CLASSIC (PUSH PULL SETS)**

SINGLE ACTING DOORS USE A PULL HANDLE AND PUSH BAR.

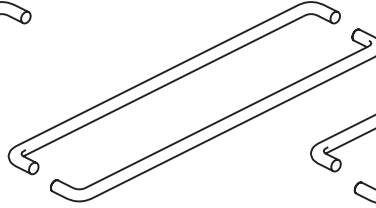
Refer to **HARDWARE SECTION** for complete hardware information.



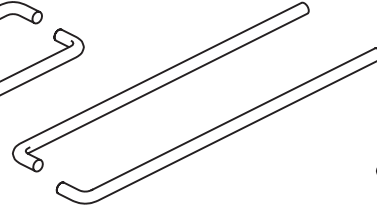
CO-9 / CP  
CO-12 / CP



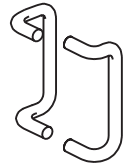
CO-9 / CP-II  
CO-12 / CP-II



CP-II / CP-II

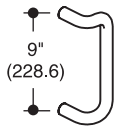


CP / CP

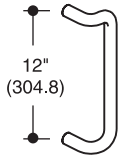


CO-9 / CO-9  
CO-12 / CO-12

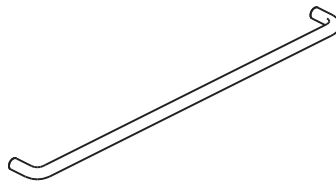
**ARCHITECTS CLASSIC (COMPONENTS)**



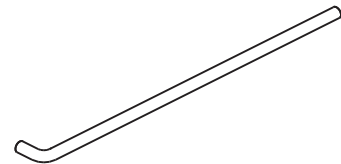
CO-9 PULL



CO-12 PULL



CP-II PUSH BAR

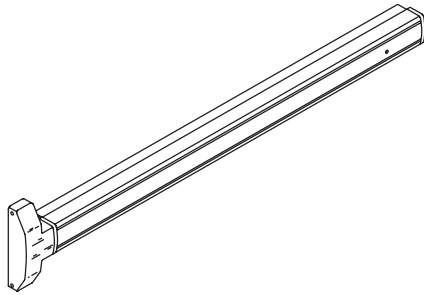


CP PUSH BAR

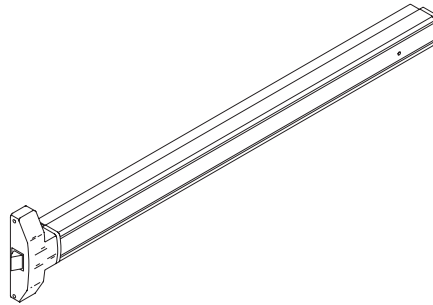
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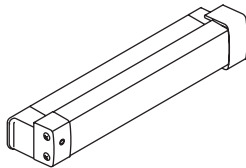
EXIT DEVICES and EXIT DEVICE PULLS



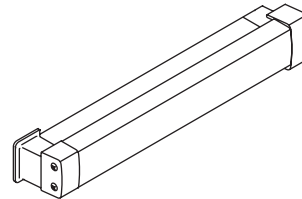
**CONCEALED ROD EXIT DEVICE**  
Falcon 1690  
Falcon EL 1690



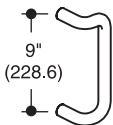
**RIM LATCH EXIT DEVICE**  
Falcon 1790  
Falcon EL 1790



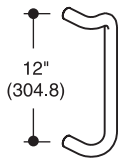
**MORTISE EXIT DEVICE**  
Adams-Rite 8400



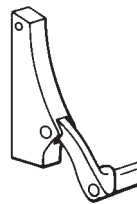
**CONCEALED EXIT DEVICE**  
Adams-Rite 8600



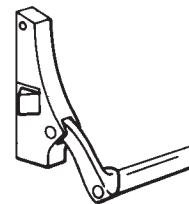
**CO-9 PULL**



**CO-12 PULL**



**CONCEALED ROD EXIT DEVICE**  
Falcon 1990



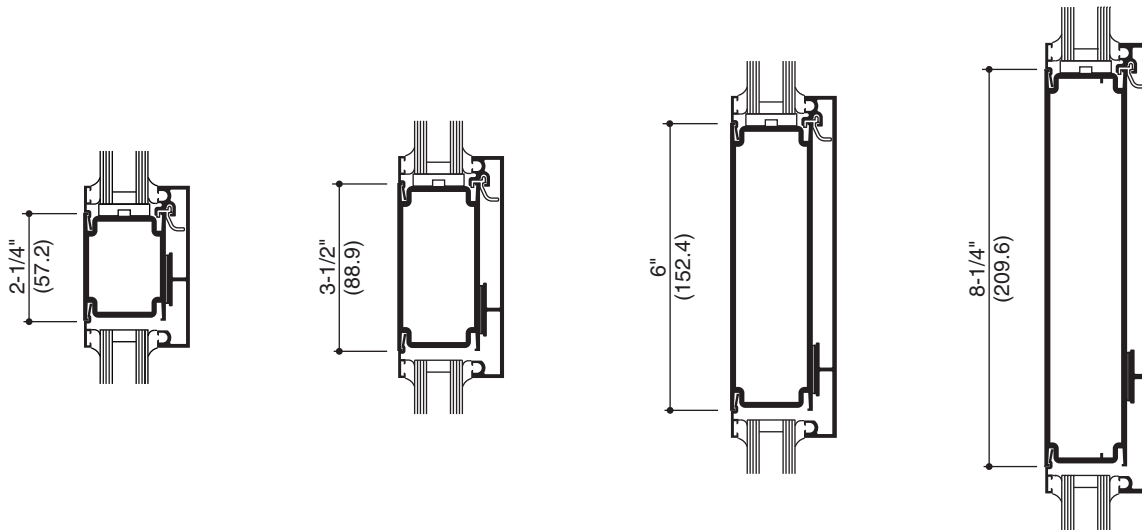
**RIM LATCH EXIT DEVICE**  
Falcon 2090

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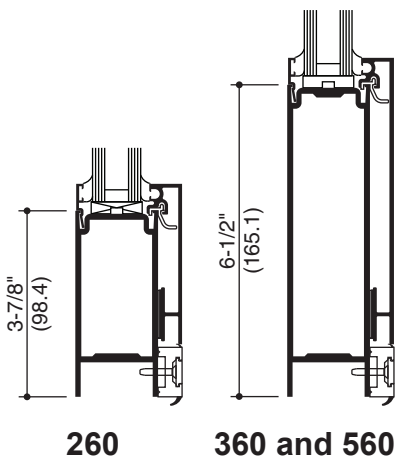
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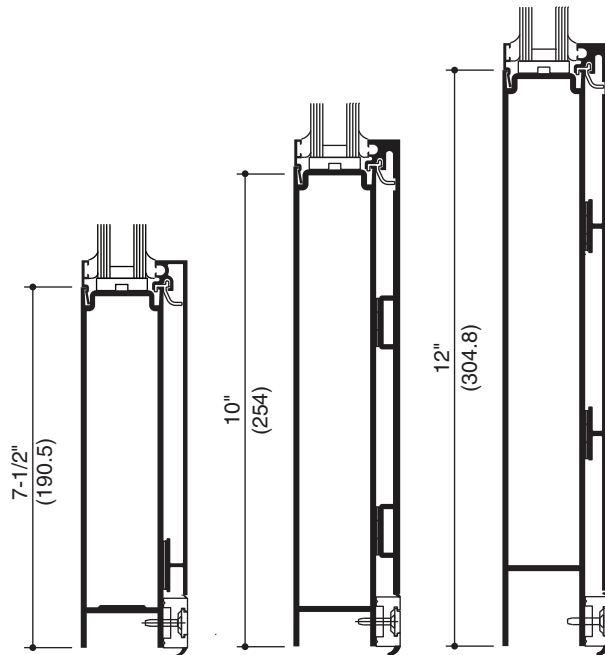
OPTIONAL CROSS RAILS



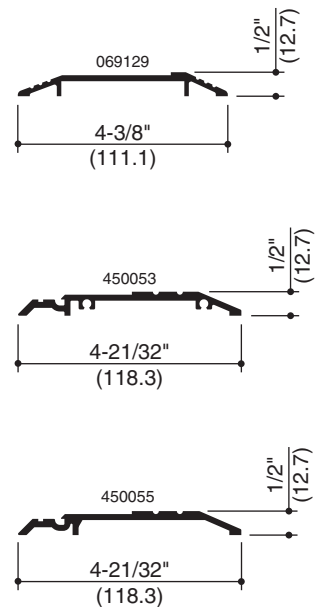
STANDARD BOTTOM RAIL



OPTIONAL BOTTOM RAIL



THRESHOLDS

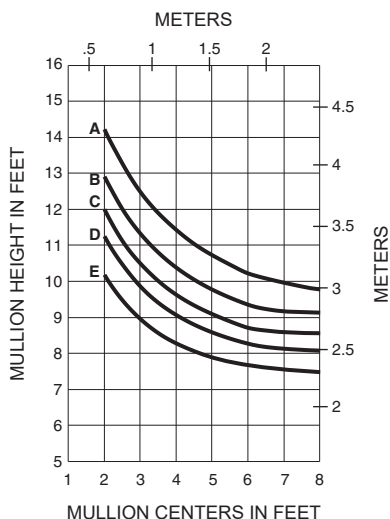


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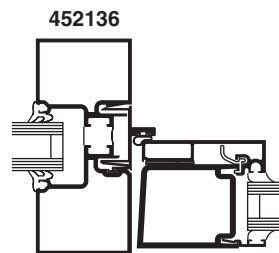
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**WIND LOAD CHARTS**

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13' 6" and L/240 +1/4" above 13' 6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104MPa), STEEL 30,000 psi (207MPa). 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.

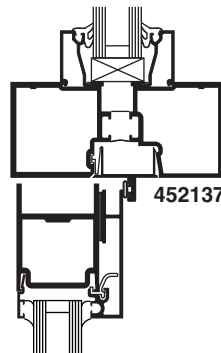
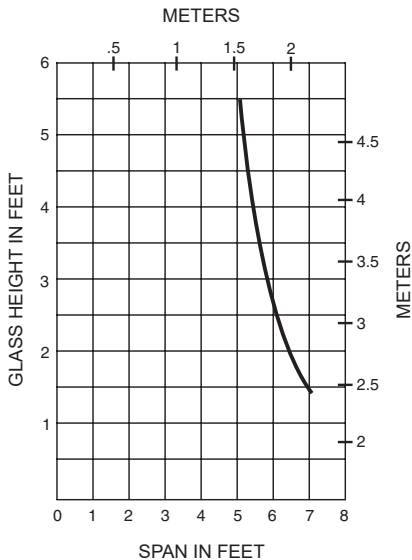


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)



**DEADLOAD ON TRANSOM BAR**

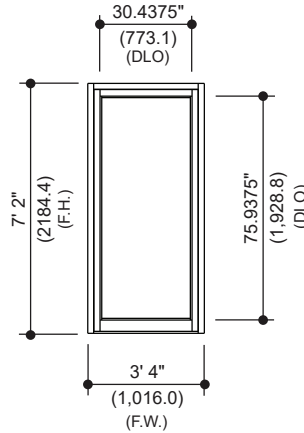
Height limitations for transom glass over a doorway are based on a maximum 1/16" (1.6) mid-point deflection of a transom bar supporting 1" (25.4) thick double 1/4" (6.4) pane insulating glass bearing on two setting blocks placed at the 1/4-points (i.e. one fourth of the span as measured from each end). To determine height limitations for other types of insulating glass multiply the allowable glass height from the chart times 1.33 for units made with two panes of 3/16" (4.8) thick glass or times 2.0 for units made with two 1/8" (3.2) panes.



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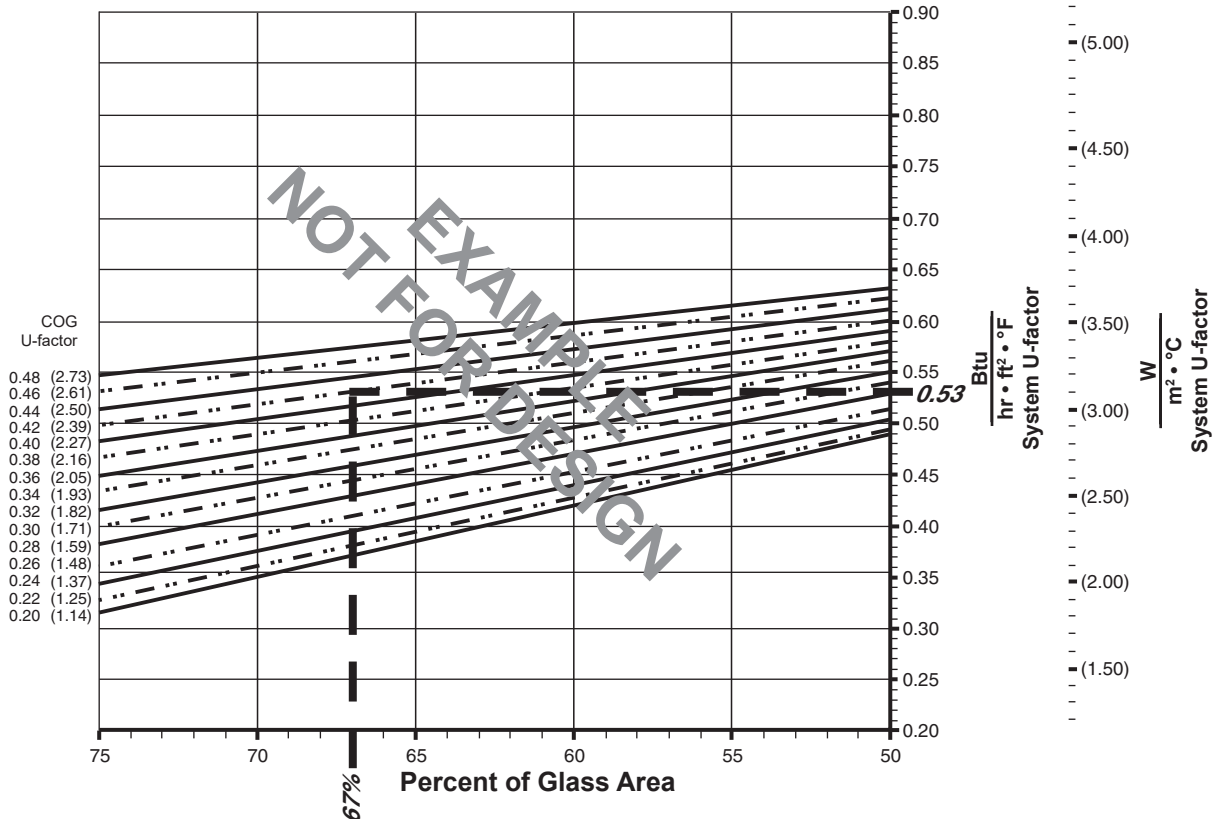
**Generic Project Specific U-factor Example Calculation**  
 (Percent of Glass will vary on specific products depending on sitelines)



Note: 260 Door shown for example

- Example Glass U-Factor = 0.42 Btu/hr • ft<sup>2</sup> • °F
- Total Daylight Opening = 30.4375" x 75.9375" = 16.05 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  
 = (16.05 ÷ 23.9)100 = 67%

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



Based on 67% glass and center of glass (COG) U-factor of 0.42  
 System U-factor is equal to 0.53 Btu/hr • ft<sup>2</sup> • °F

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260 INSULCLAD® DOOR - SINGLE LEAF

**Note:**

Values in parentheses are metric.

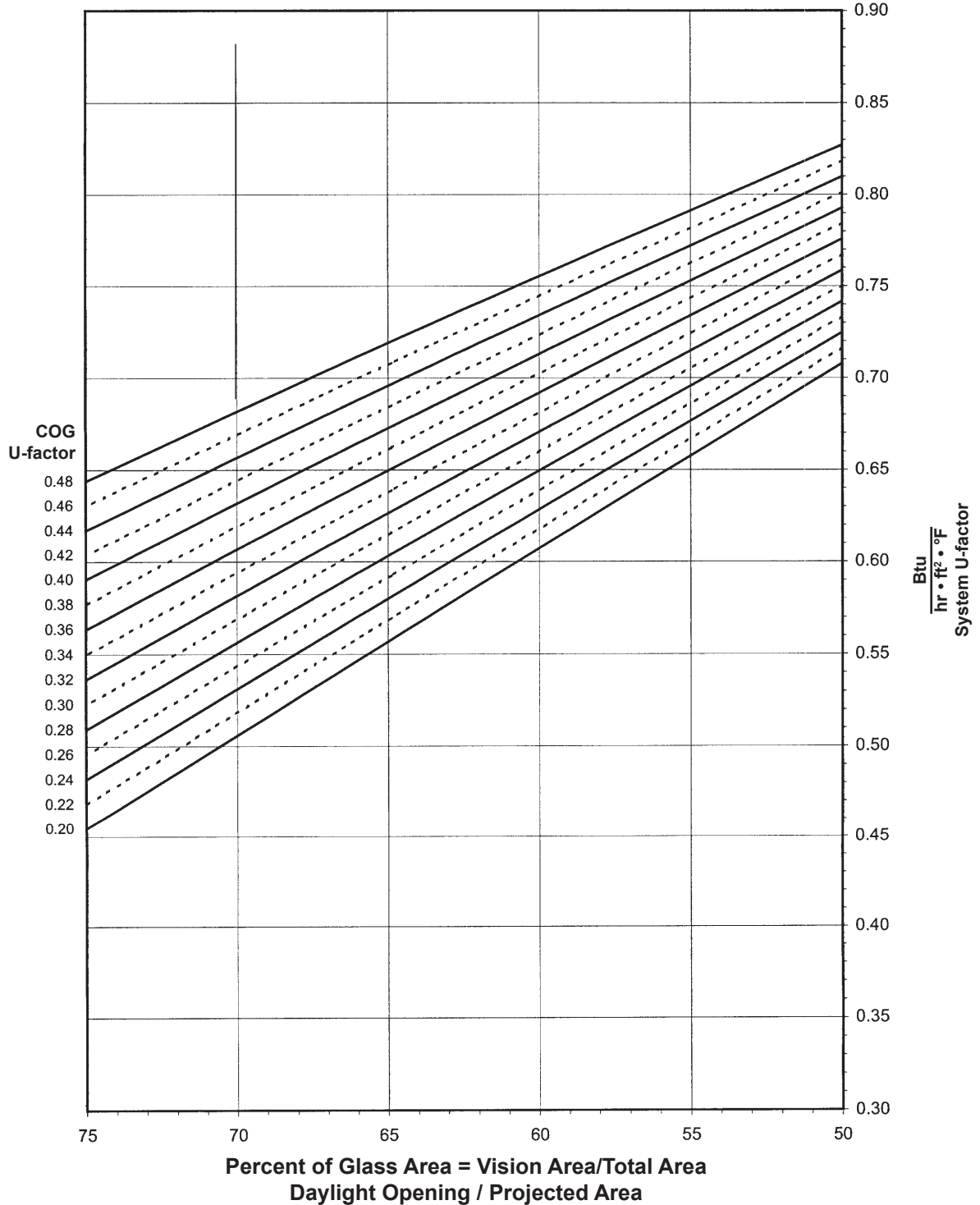
COG = Center of Glass.

Charts are generated per AAMA 507

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



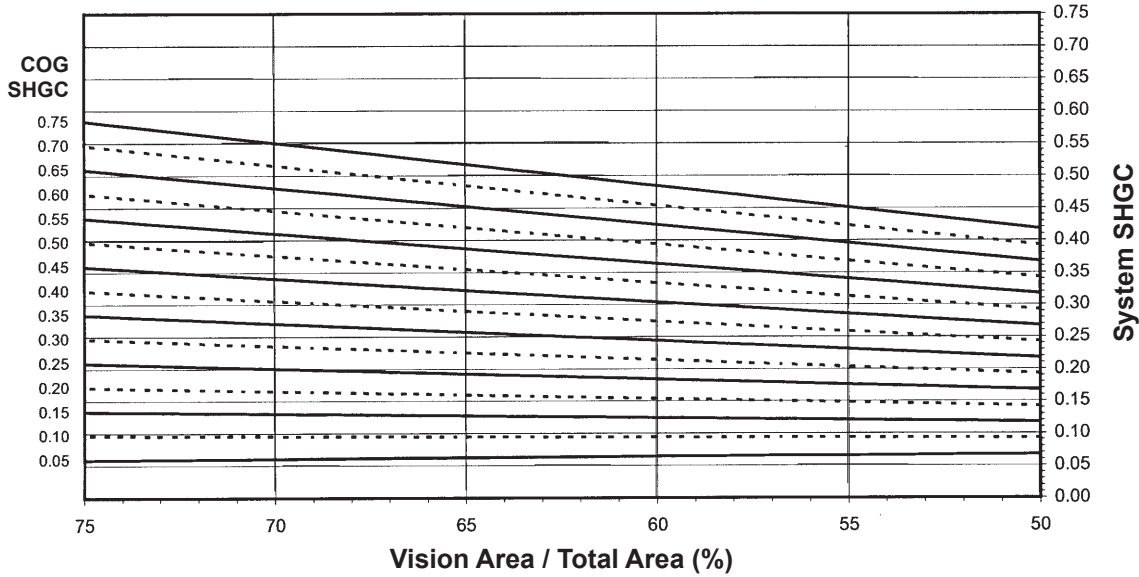
**Notes for System U-factor, SHGC and VT charts:**

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

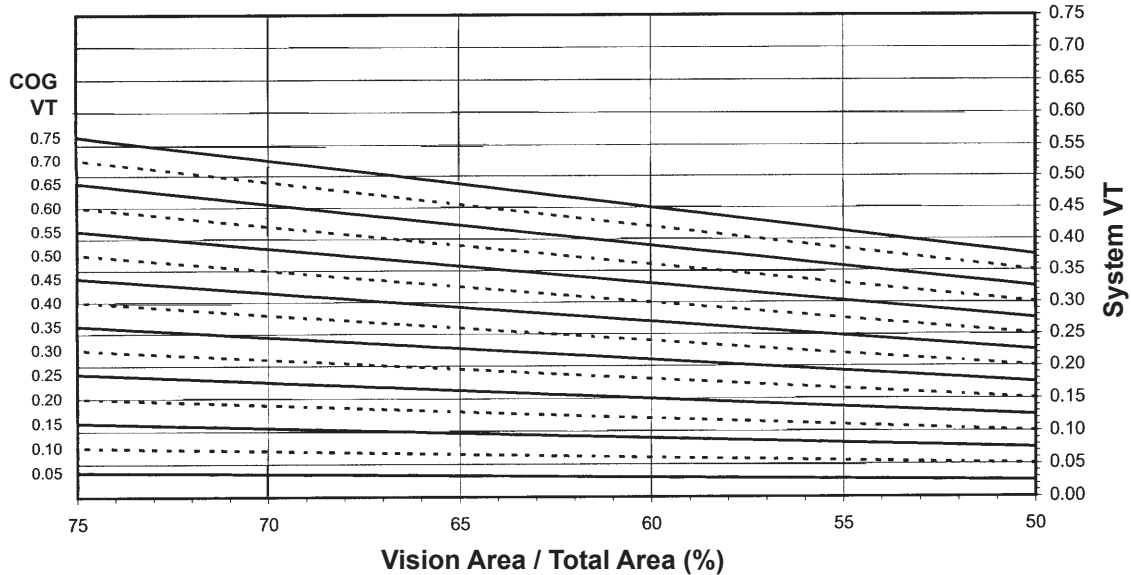
Glass properties are based on center of glass values and are obtained from your glass supplier.

260 INSULCLAD® DOOR - SINGLE LEAF

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	0.72
0.46	0.71
0.44	0.70
0.42	0.69
0.40	0.67
0.38	0.66
0.36	0.65
0.34	0.64
0.32	0.63
0.30	0.62
0.28	0.60
0.26	0.59
0.24	0.58
0.22	0.57
0.20	0.56

**260 INSULCLAD® DOOR  
SINGLE LEAF**

**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 1,000 mm wide by 2,000 mm high (39-3/8" by 78-3/4").

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

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.52
0.70	0.48
0.65	0.45
0.60	0.42
0.55	0.39
0.50	0.35
0.45	0.32
0.40	0.29
0.35	0.26
0.30	0.22
0.25	0.19
0.20	0.16
0.15	0.13
0.10	0.09
0.05	0.06

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

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.49
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	0.19
0.25	0.16
0.20	0.13
0.15	0.10
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.

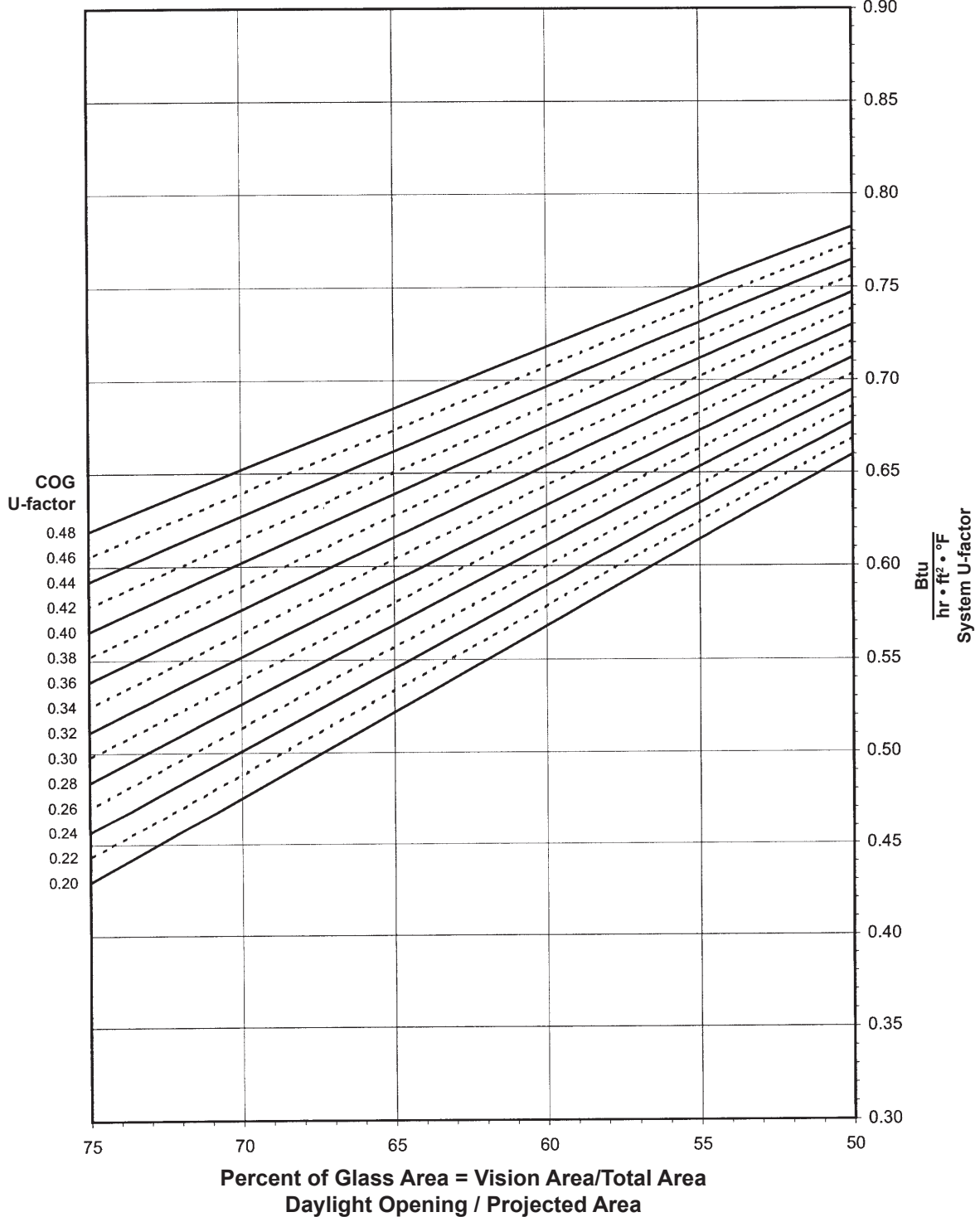
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360 INSULCLAD® DOOR - SINGLE LEAF

**Note:**

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

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



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

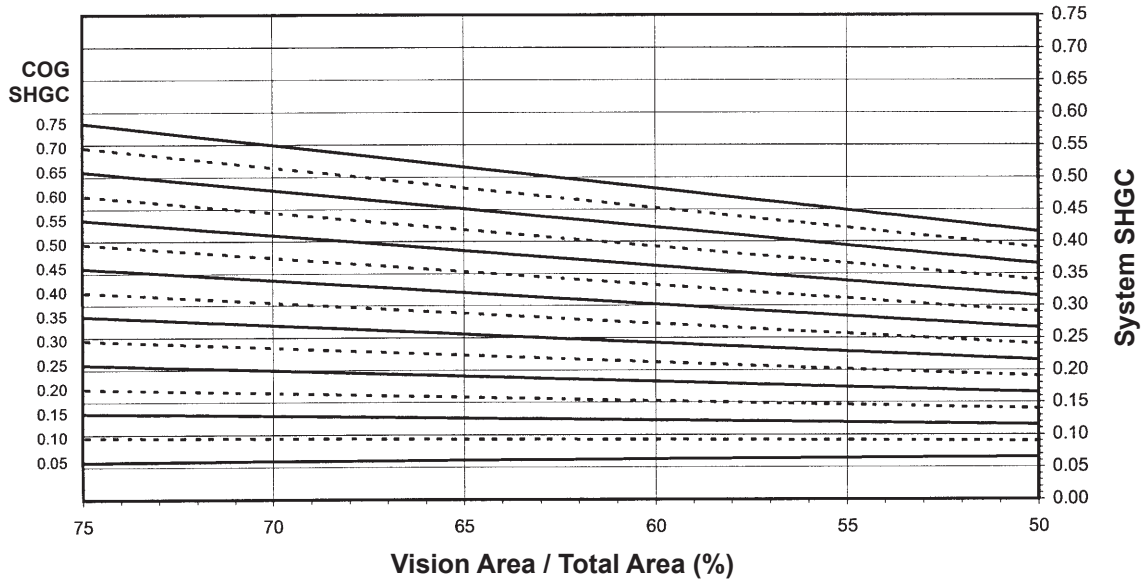
For glass values that are not listed, linear interpolation is permitted.  
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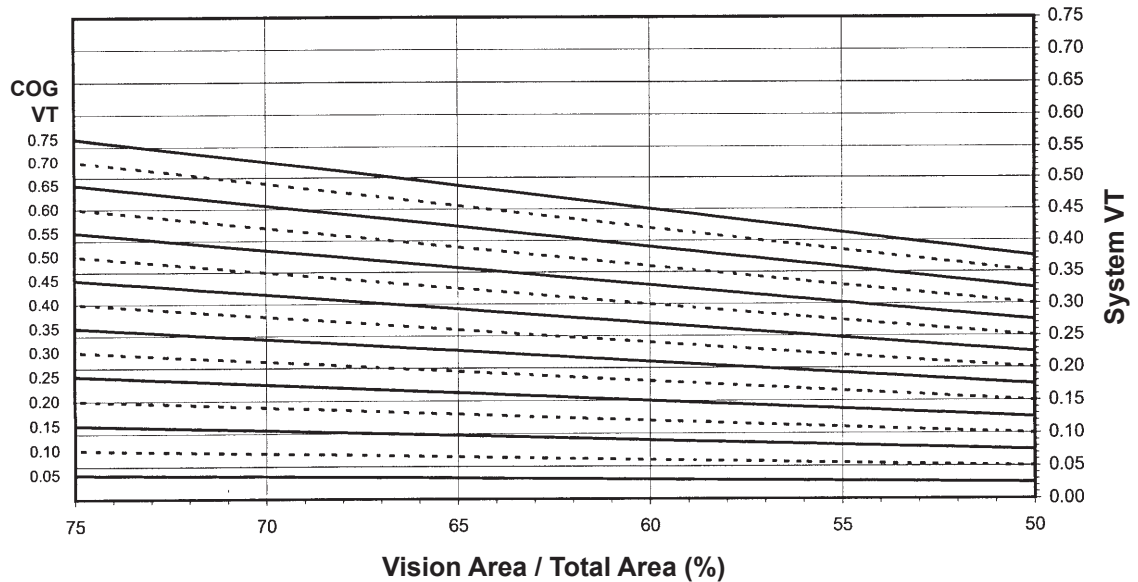
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360 INSULCLAD® DOOR - SINGLE LEAF

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



System Visible Transmittance (VT) vs Percent of Vision Area



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### 0 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	0.75
0.46	0.74
0.44	0.73
0.42	0.72
0.40	0.71
0.38	0.70
0.36	0.69
0.34	0.68
0.32	0.67
0.30	0.66
0.28	0.65
0.26	0.64
0.24	0.63
0.22	0.62
0.20	0.61

### 360 INSULCLAD® DOOR SINGLE LEAF

**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 1,000 mm wide by 2,000 mm high (39-3/8" by 78-3/4").

### 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	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.29
0.40	0.26
0.35	0.23
0.30	0.20
0.25	0.17
0.20	0.15
0.15	0.12
0.10	0.09
0.05	0.06

### Visible Transmittance <sup>2</sup>

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.42
0.70	0.39
0.65	0.36
0.60	0.33
0.55	0.31
0.50	0.28
0.45	0.25
0.40	0.22
0.35	0.19
0.30	0.17
0.25	0.14
0.20	0.11
0.15	0.08
0.10	0.06
0.05	0.03

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560 INSULCLAD® DOOR - SINGLE LEAF

**Note:**

Values in parentheses are metric.

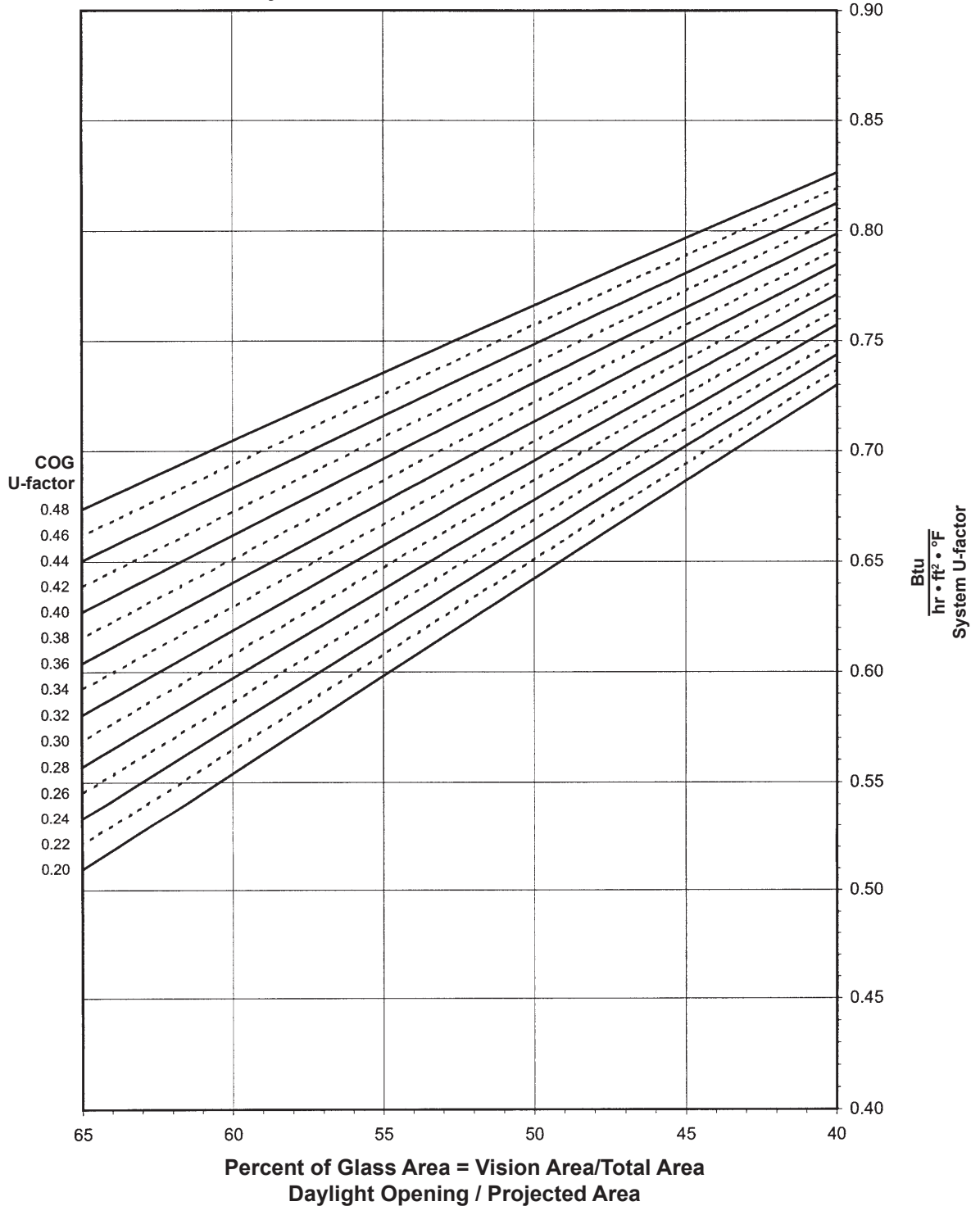
COG = Center of Glass.

Charts are generated per AAMA 507

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

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



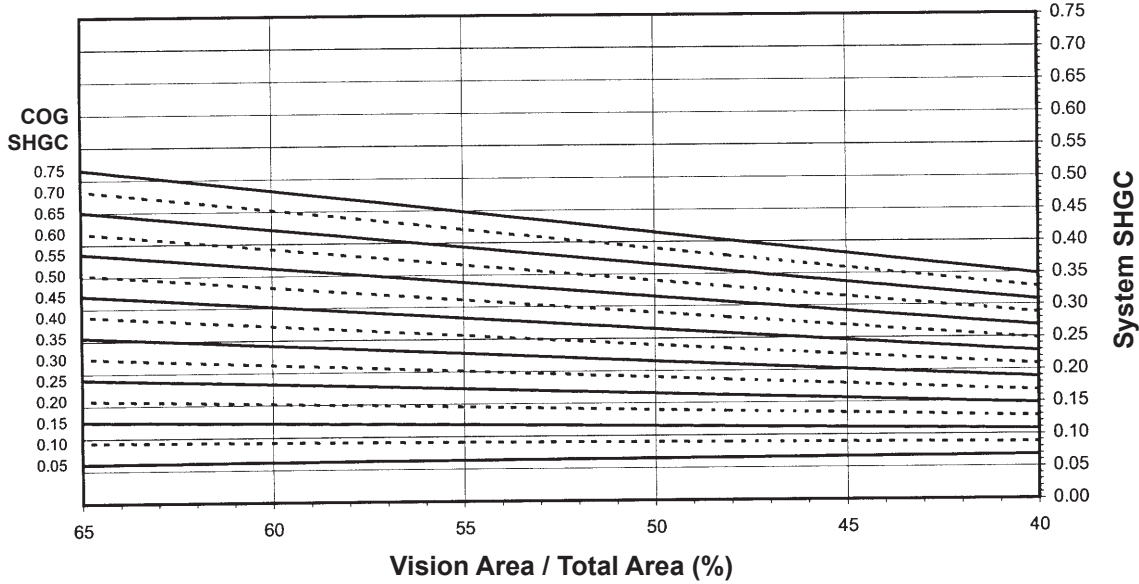
**Notes for System U-factor, SHGC and VT charts:**

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

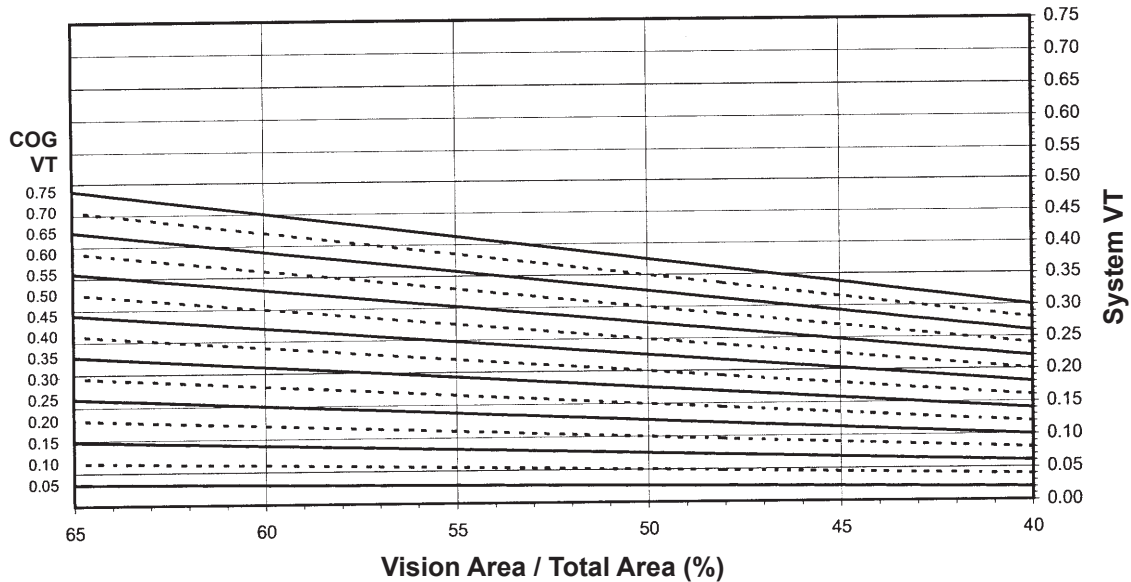
Glass properties are based on center of glass values and are obtained from your glass supplier.

560 INSULCLAD® DOOR - SINGLE LEAF

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	0.78
0.46	0.77
0.44	0.76
0.42	0.75
0.40	0.74
0.38	0.74
0.36	0.73
0.34	0.72
0.32	0.71
0.30	0.70
0.28	0.69
0.26	0.68
0.24	0.68
0.22	0.67
0.20	0.66

**560 INSULCLAD® DOOR  
SINGLE LEAF**

**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 1,000 mm wide by 2,000 mm high (39-3/8" by 78-3/4").

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

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.40
0.70	0.38
0.65	0.35
0.60	0.33
0.55	0.31
0.50	0.28
0.45	0.26
0.40	0.23
0.35	0.21
0.30	0.19
0.25	0.16
0.20	0.14
0.15	0.11
0.10	0.09
0.05	0.07

**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	0.31
0.60	0.29
0.55	0.26
0.50	0.24
0.45	0.22
0.40	0.19
0.35	0.17
0.30	0.14
0.25	0.12
0.20	0.10
0.15	0.07
0.10	0.05
0.05	0.02

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