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 in seven choices
- 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

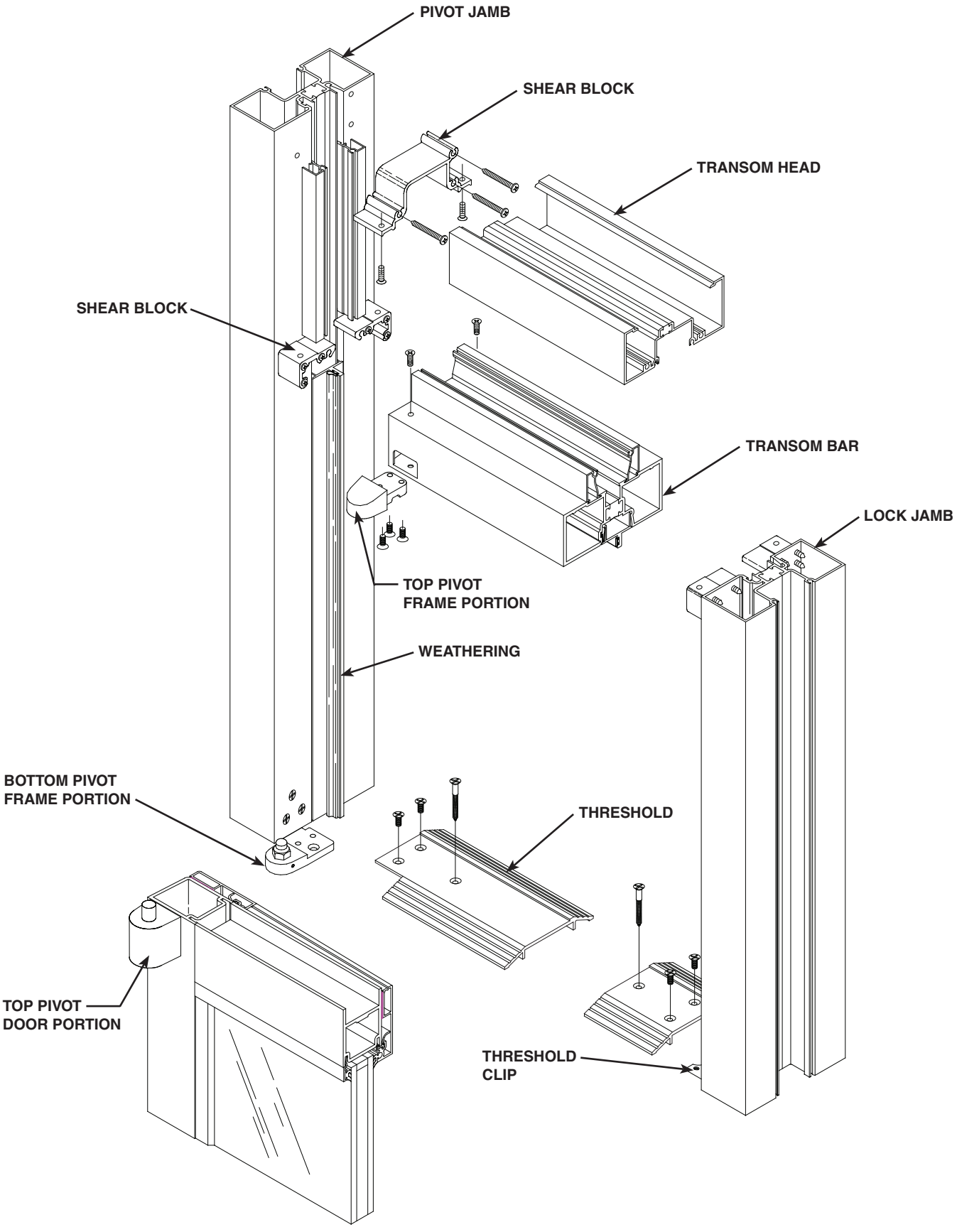
For specific product applications,
Consult your Kawneer representative.

LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF 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.

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:

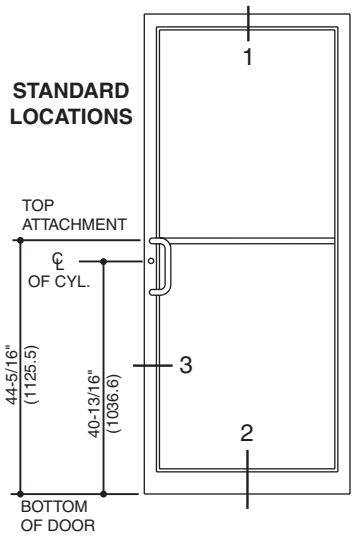
m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

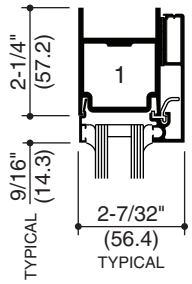


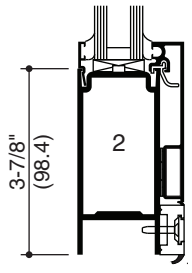
INSULCLAD™ 260 DOOR

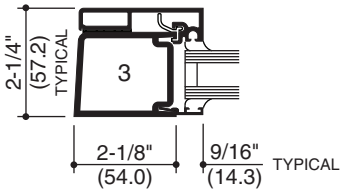
SCALE 3" = 1' 0"

260 NARROW STILE



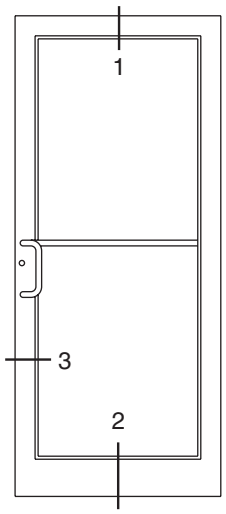


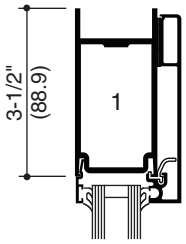


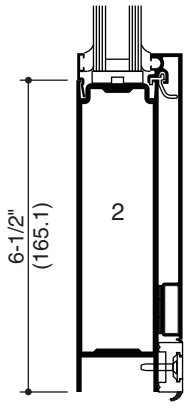


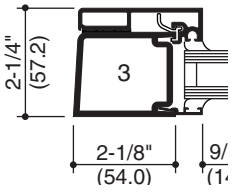
SINGLE ACTING

360 MEDIUM STILE



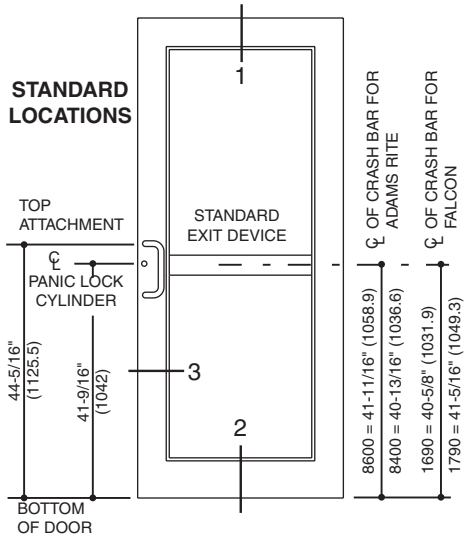


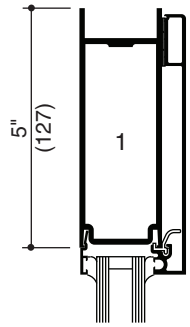


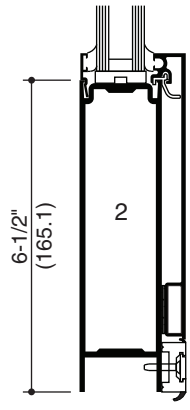


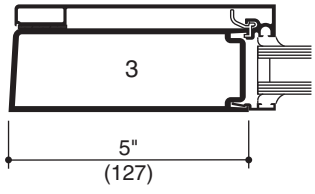
SINGLE ACTING

560 WIDE STILE





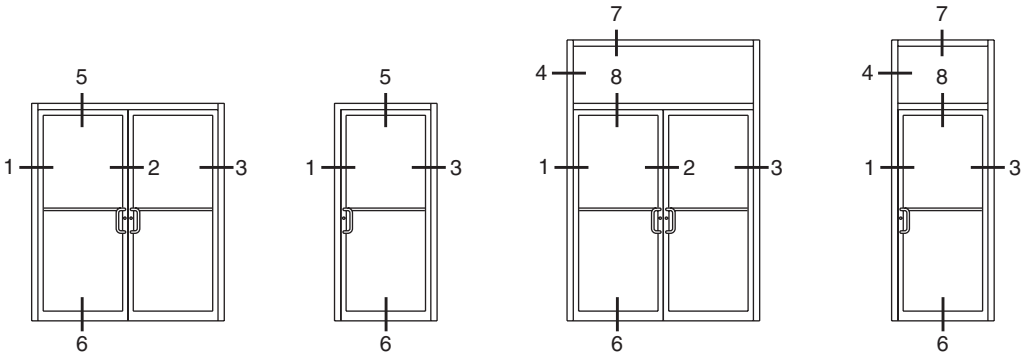




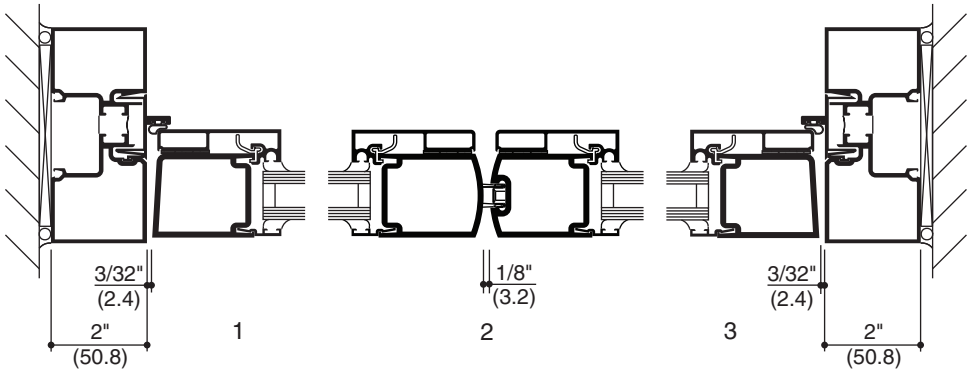
SINGLE ACTING

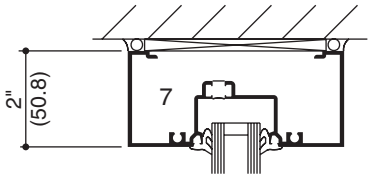
SCALE 3" = 1'-0"

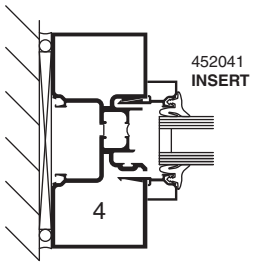
TRIFAB™ VG 451T CENTER FRAMING SHOWN. 260 INSULCLAD SHOWN, 360 AND 560 INSULCLAD SIMILAR. OTHER FRAMING OPTIONS AVAILABLE. CONSULT YOUR KAWNEER REPRESENTATIVE.

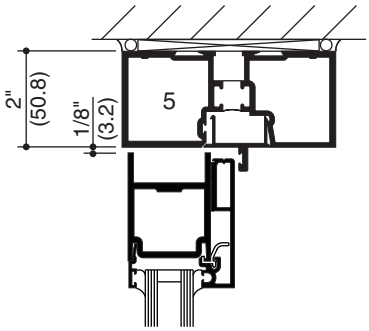


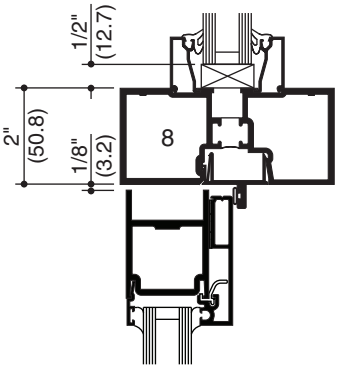
ELEVATION IS NUMBER KEYED TO DETAILS.

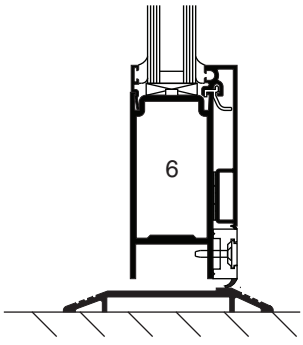






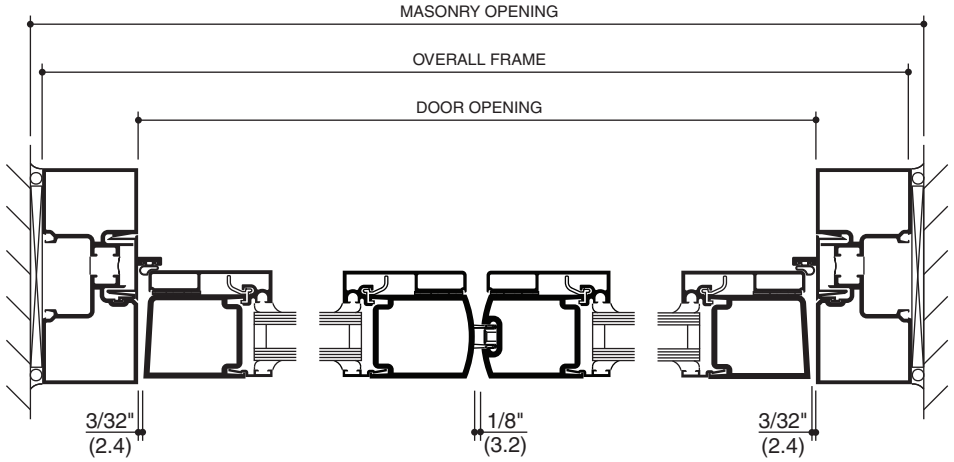


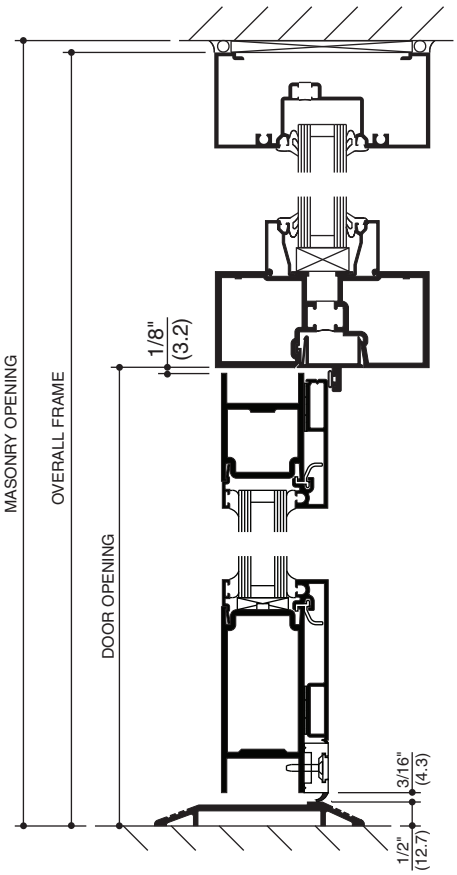




SCALE 3" = 1' 0"

DIMENSIONS ARE NOMINAL





STANDARD SIZES (TRIFAB™ VG 451T CENTER FRAMES)

WITHOUT TRANSOM

Door Opening Dimension	Overall Frame Dimension	Masonry Opening Dimension
3' 0" x 7' 0" (914 x 2134)	3' 4" x 7' 2" (1016 x 2184)	3' 4-1/2" x 7' 2-1/4" (1029 x 2191)
3' 6" x 7' 0" (1067 x 2134)	3' 10" x 7' 2" (1168 x 2184)	3' 10-1/2" x 7' 2-1/4" (1181 x 2191)
6' 0" x 7' 0" (1829 x 2134)	6' 4" x 7' 2" (1930 x 2184)	6' 4-1/2" x 7' 2-1/4" (1943 x 2191)

WITH TRANSOM

Door Opening Dimension	Overall Frame Dimension	Masonry Opening Dimension
Unchanged from above.	Add 3' 2" (965) to above heights.	Add 3' 2-1/2" (978) to above heights.

	STANDARD	OPTIONAL
Doors	Narrow stile 260 doors prepared for attachment hardware.	Medium stile 360 or wide stile 560.
Door Sizes	Standard sizes shown on page 8.	Any size up to 3' 6" x 8' (1067 x 2438)
Glass Stops	Square glass stops for 1" (25.4) infill.	
Door Frames	**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.
Push-Pulls	**Single Acting:** Architects Classic Hardware "CO-9" Pull and "CP-II" Push Bar. Architects Classic Hardware "CO-9" Pull and "CP" Push Bar.	**Single Acting:** 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.
Door Closers	**Single Acting:** Norton 1601 adjustable or 1601 BF adjustable surface closer with back-check and with or without adjustable hold-open.	**Single Acting:** 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.
Hinging	**Single Acting:** 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.	
Intermediate Pivots/Butts	**Single Acting:** 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).	**Single Acting:** Rixson M-19 or IVES #7215-INT intermediate offset pivot.
Power Transfers	**Single Acting:** 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).	
Power Supply	**SP-1000X Power Supply:** For use with EL exit devices.	
Locks - Active Leaf	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).

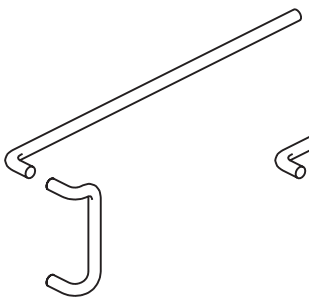
	STANDARD	OPTIONAL
Locks - Inactive Leaf	One pair of Kawneer flush bolts in the inactive leaf of a pair of doors.	**Controller™** is a 3-point locking system consisting of a two point locking device in the inactive leaf in lieu of flush bolts, working in conjunction with the MS 1850A deadlock in the active 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.
Thresholds	A 1/2" x 4" (12.7 x 101.6) aluminum mill finish threshold.	
Weathering	**Single Acting:** 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).	
Exit Device	**Falcon 1690 Concealed Rod Exit Device** with or without a rim type cylinder. **Falcon 1790 Rim Exit Device** is a rim type exit device with or without a rim type cylinder.	**Falcon EL 1690** 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. **Falcon EL 1790** 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. **Falcon 1990** is a concealed rod exit device with or without a rim type cylinder. **Falcon 2090** is a rim type exit device with or without a rim type cylinder. **Adams Rite 8600** is a concealed rod exit device with or without a rim type cylinder. **Adams Rite 8400** is a rim type exit device with or without a rim type cylinder.
	Exit Device Pulls: Architects Classic style "CO-9" Pull.	**Optional Exit Device Pulls:** Architects Classic style "CO-12" Pull.

Reference Hardware section for additional information

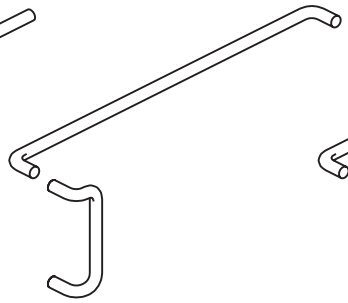
ARCHITECTS CLASSIC (PUSH PULL SETS)

SINGLE ACTING DOORS USE A PULL HANDLE AND PUSH BAR.

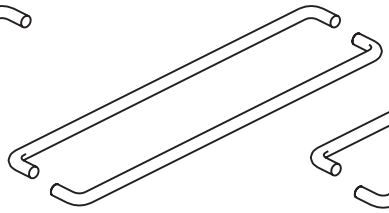
Refer to **HARDWARE SECTION** for complete hardware information.



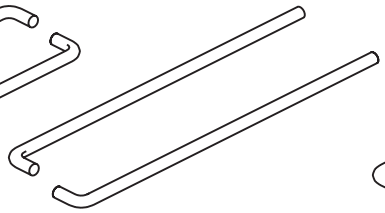
CO-9 / CP
CO-12 / CP



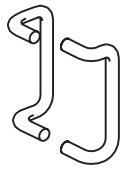
CO-9 / CP-II
CO-12 / CP-II



CP-II / CP-II

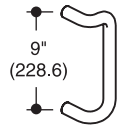


CP / CP

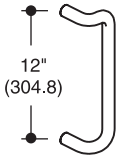


CO-9 / CO-9
CO-12 / CO-12

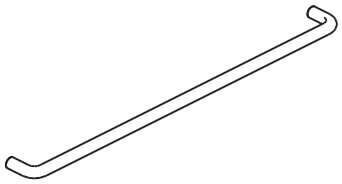
ARCHITECTS CLASSIC (COMPONENTS)



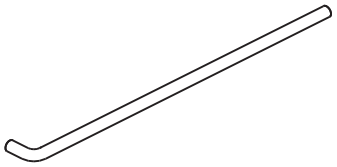
"CO-9"
PULL



"CO-12"
PULL



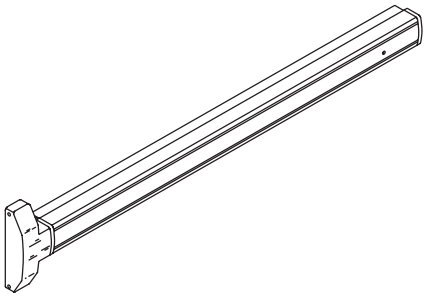
"CP-II" PUSH BAR



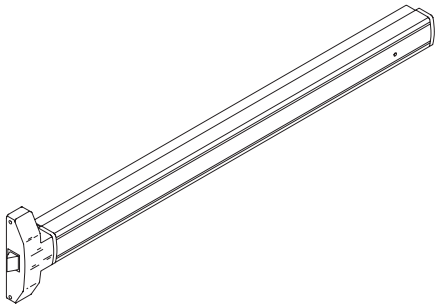
"CP" PUSH BAR

EXIT DEVICES and EXIT DEVICE PULLS

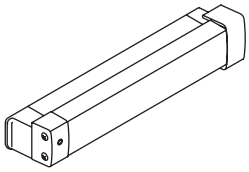
c UL us LISTED



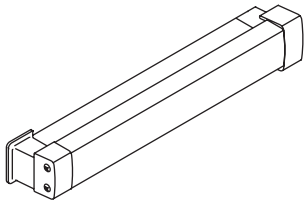
CONCEALED ROD EXIT DEVICE
Falcon 1690
Falcon EL 1690



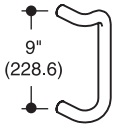
RIM LATCH EXIT DEVICE
Falcon 1790
Falcon EL 1790



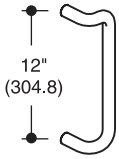
MORTISE EXIT DEVICE
Adams-Rite 8400



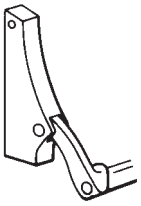
CONCEALED EXIT DEVICE
Adams-Rite 8600



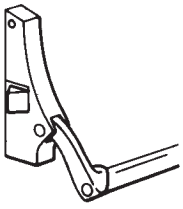
"CO-9"
PULL



"CO-12"
PULL



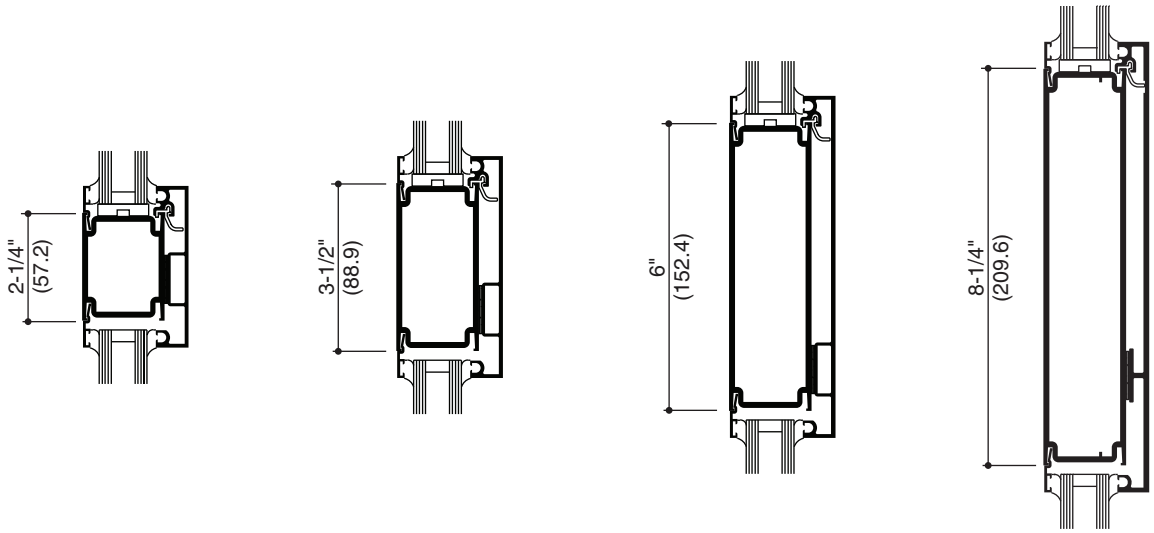
CONCEALED ROD EXIT DEVICE
Falcon 1990



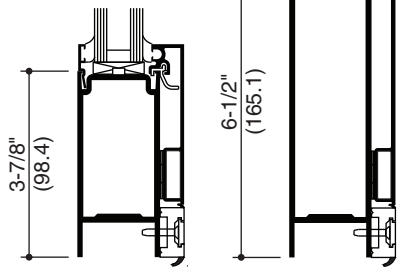
RIM LATCH EXIT DEVICE
Falcon 2090

SCALE 3" = 1'-0"

OPTIONAL CROSS RAILS

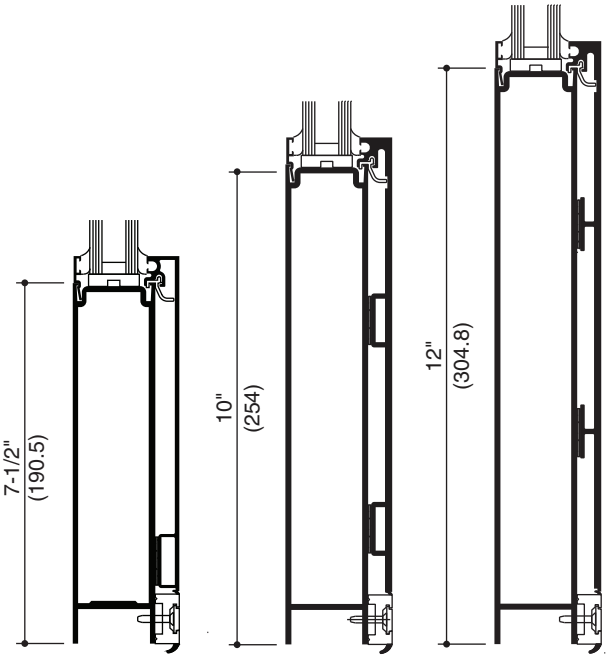


STANDARD BOTTOM RAIL

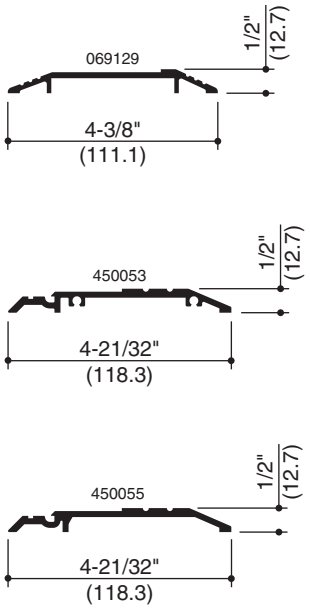


260 360 and 560

OPTIONAL BOTTOM RAIL

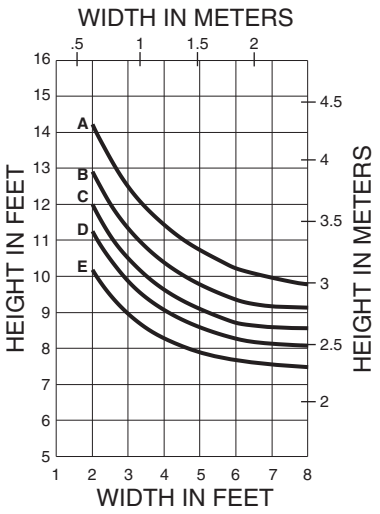


THRESHOLDS



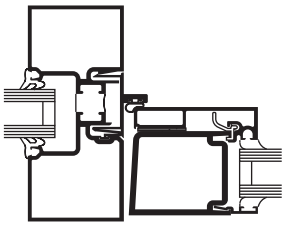
WINDLOAD ON ENTRANCE FRAMING

Charted windload curves are based on allowable stress for aluminum of 15,152 PSI and a L/175 deflection ratio and, in all cases represent the limiting values. Dimensional limits at the stated windloads are for door frame members anchored only at the ends.



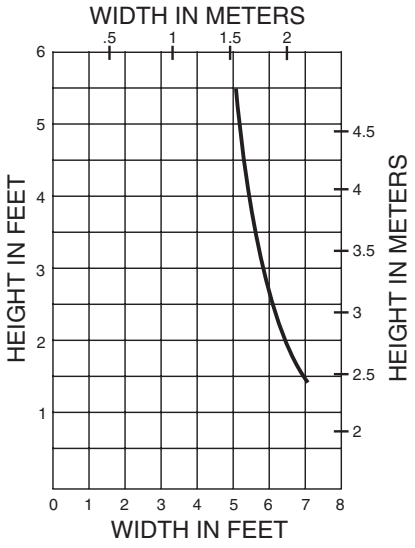
A = 15 PSF (720 Pa)
B = 20 PSF (960 Pa)
C = 25 PSF (1200 Pa)
D = 30 PSF (1440 Pa)

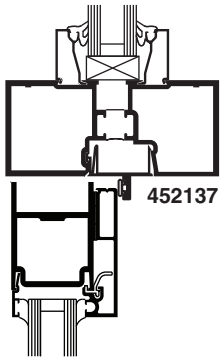
452136



DEADLOAD ON TRANSOM BAR

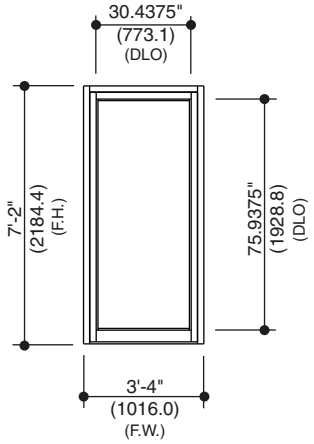
Height limitations for transom glass over a doorway are based on a maximum 1/16" (1.6) mid-point deflection of a transom bar supporting 1" (25.4) thick double 1/4" (6.4) pane insulating glass bearing on two setting blocks placed at the 1/4-points (i.e. one fourth of the span as measured from each end). 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.





452137

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



Note: 260 Door shown for example

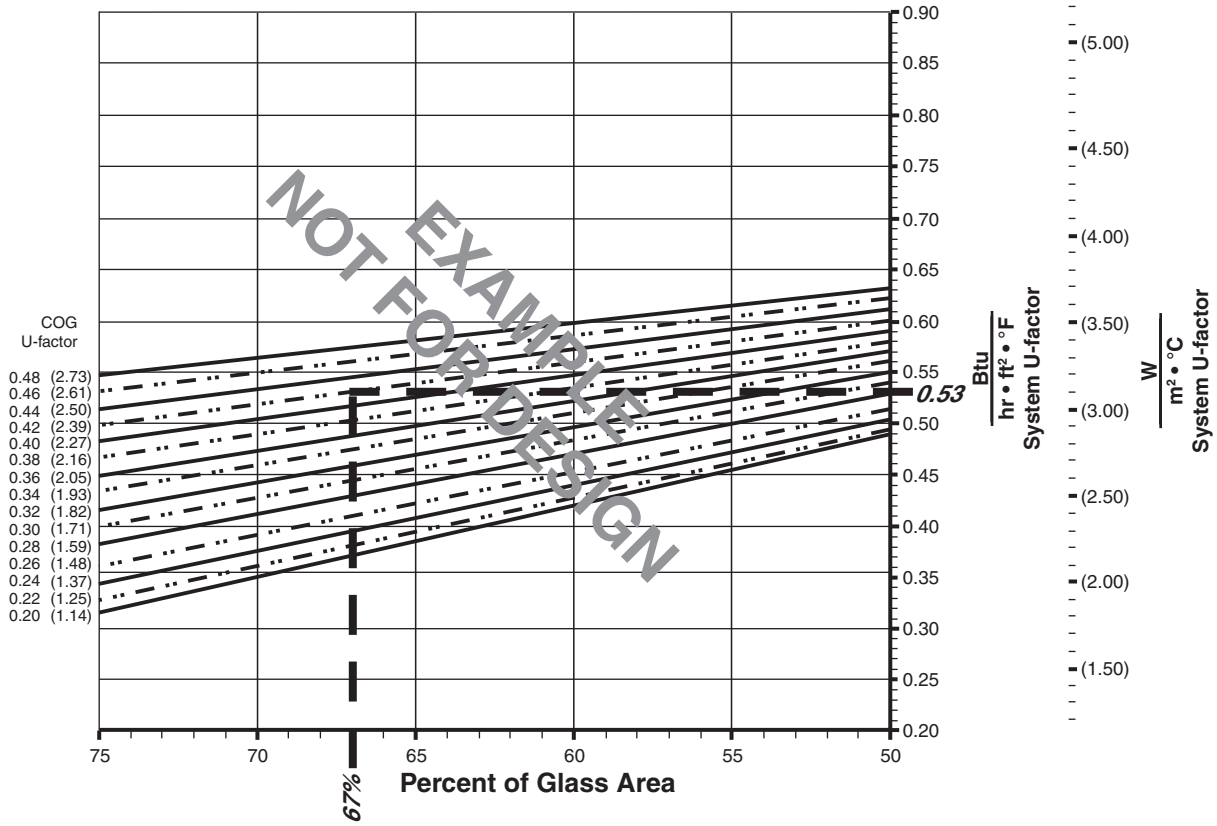
Example Glass U-Factor = 0.42 Btu/hr • ft² • °F

Total Daylight Opening = 30.4375" x 75.9375" = 16.05 ft²

Total Projected Area = 3'-4" x 7'-2" = 23.9 ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)100
= (16.05 ÷ 23.9)100 = 67%

System U-factor vs Percent of Glass Area

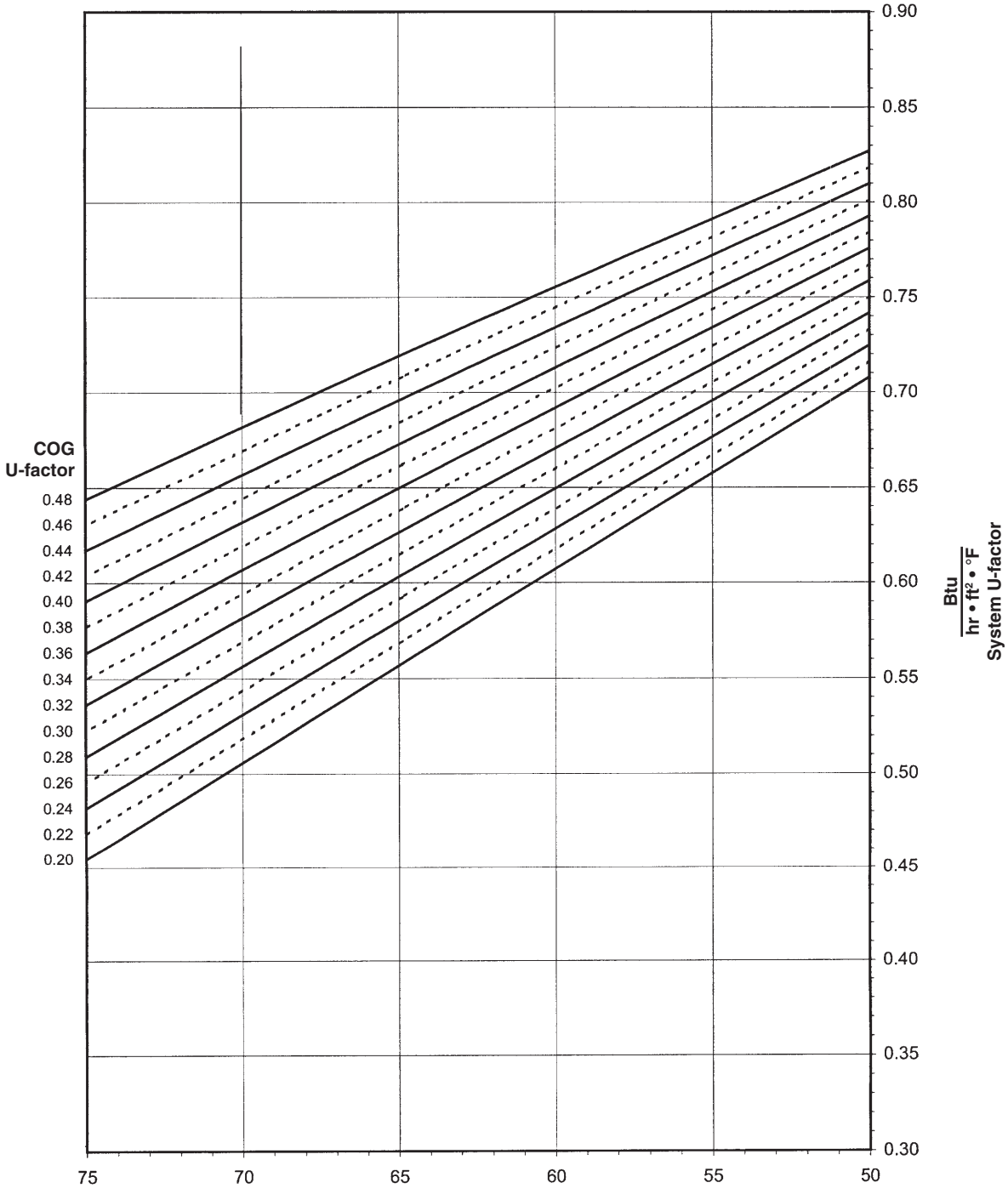


Based on 67% glass and center of glass (COG) U-factor of 0.42
System U-factor is equal to 0.53 Btu/hr • ft² • °F

260 INSULCLAD™ DOOR - SINGLE LEAF

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

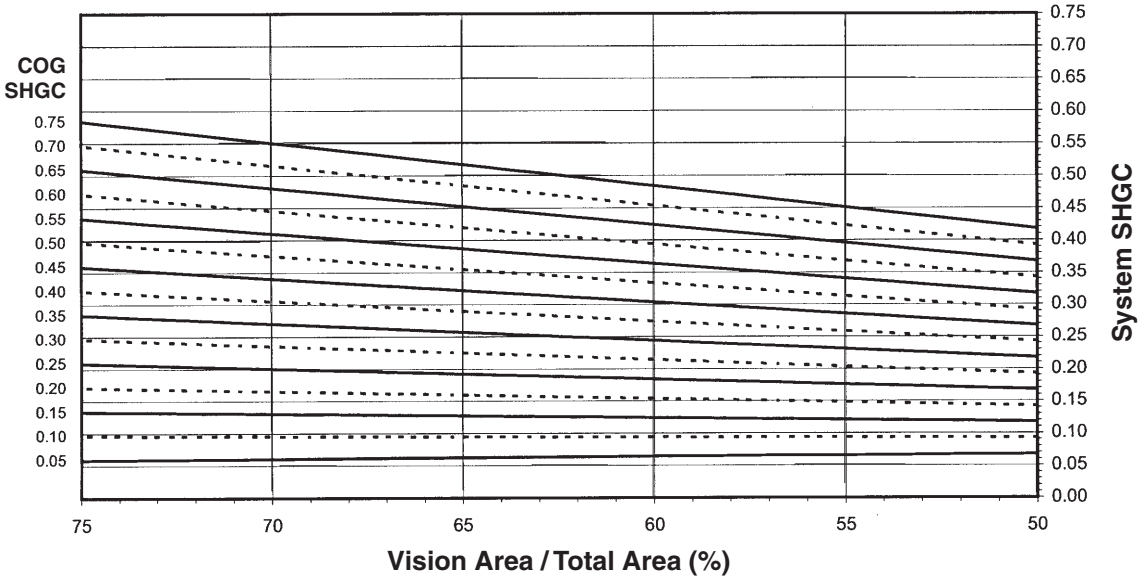
System U-factor vs Percent of Glass Area



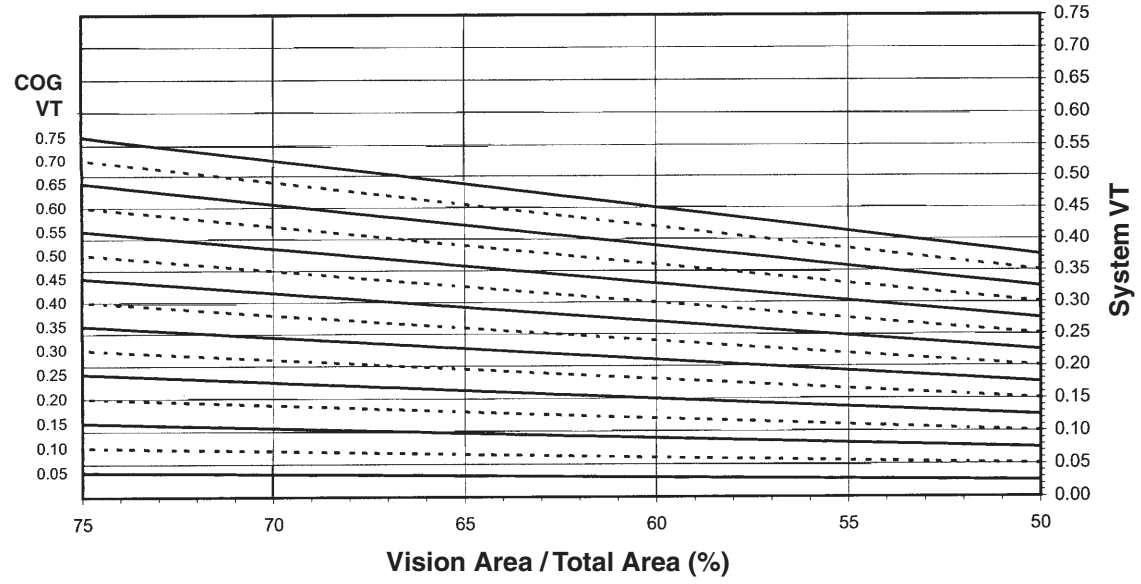
Notes for System U-factor, SHGC and VT charts:
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values and are obtained from your glass supplier.

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



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

Glass U-Factor [3]	Overall U-Factor [4]
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 [2]

Glass SHGC [3]	Overall SHGC [4]
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

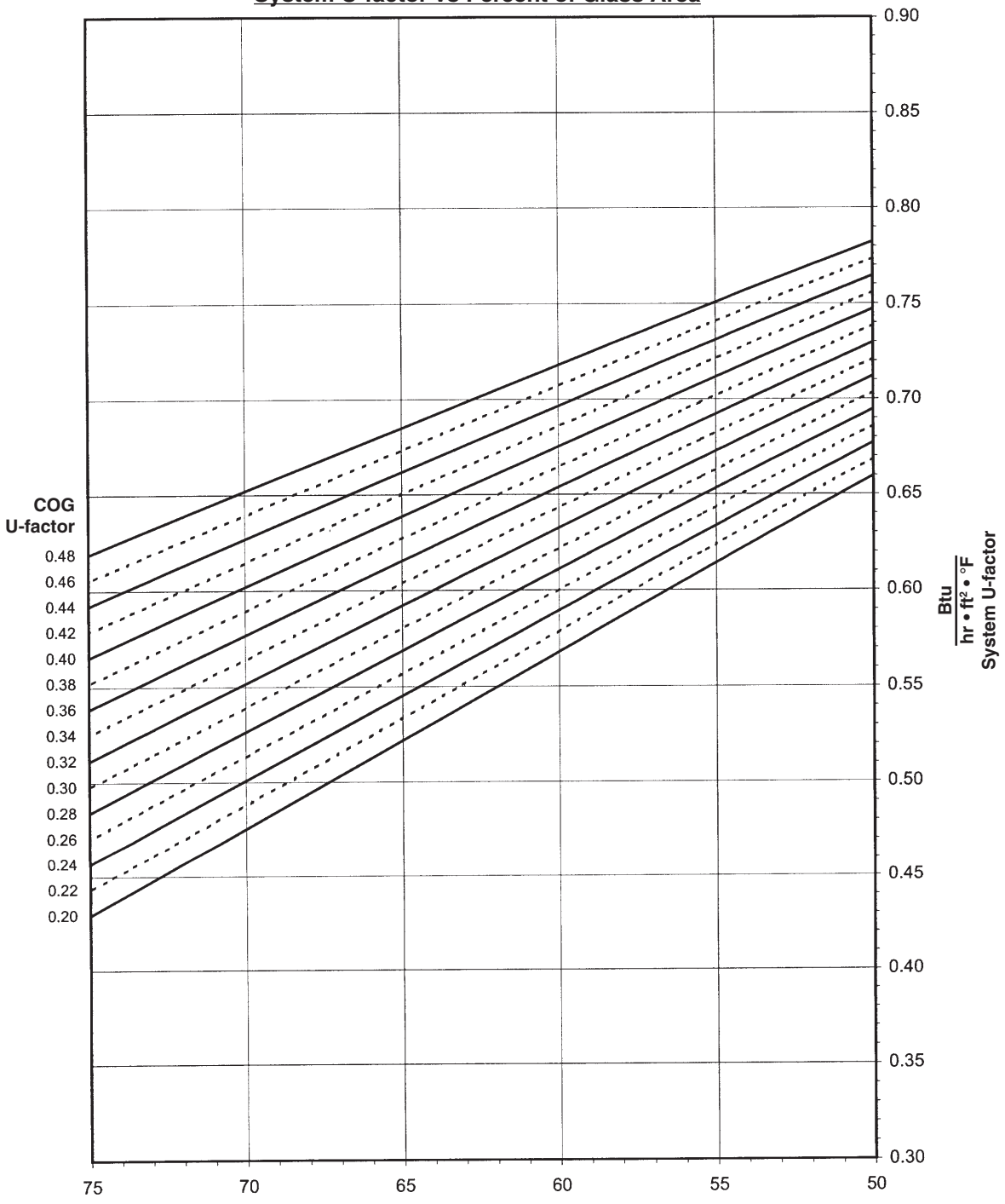
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
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

360 INSULCLAD™ DOOR - SINGLE LEAF

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

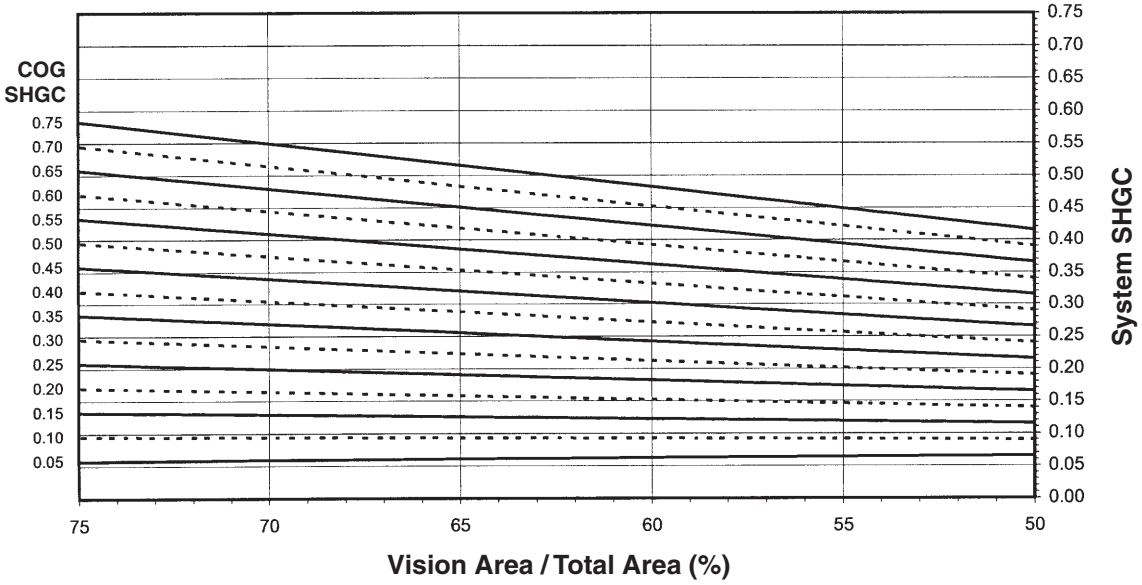
System U-factor vs Percent of Glass Area



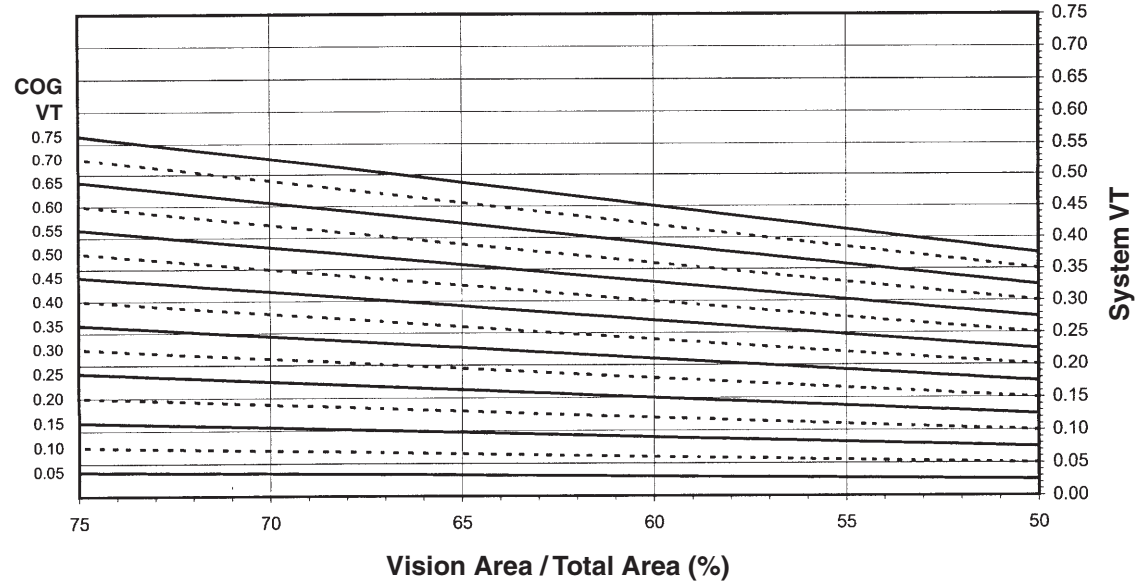
Notes for System U-factor, SHGC and VT charts:
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values and are obtained from your glass supplier.

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



0Thermal Transmittance [1] (BTU/hr • ft [2] • °F)

Glass U-Factor [3]	Overall U-Factor [4]
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 [2]

Glass SHGC [3]	Overall SHGC [4]
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

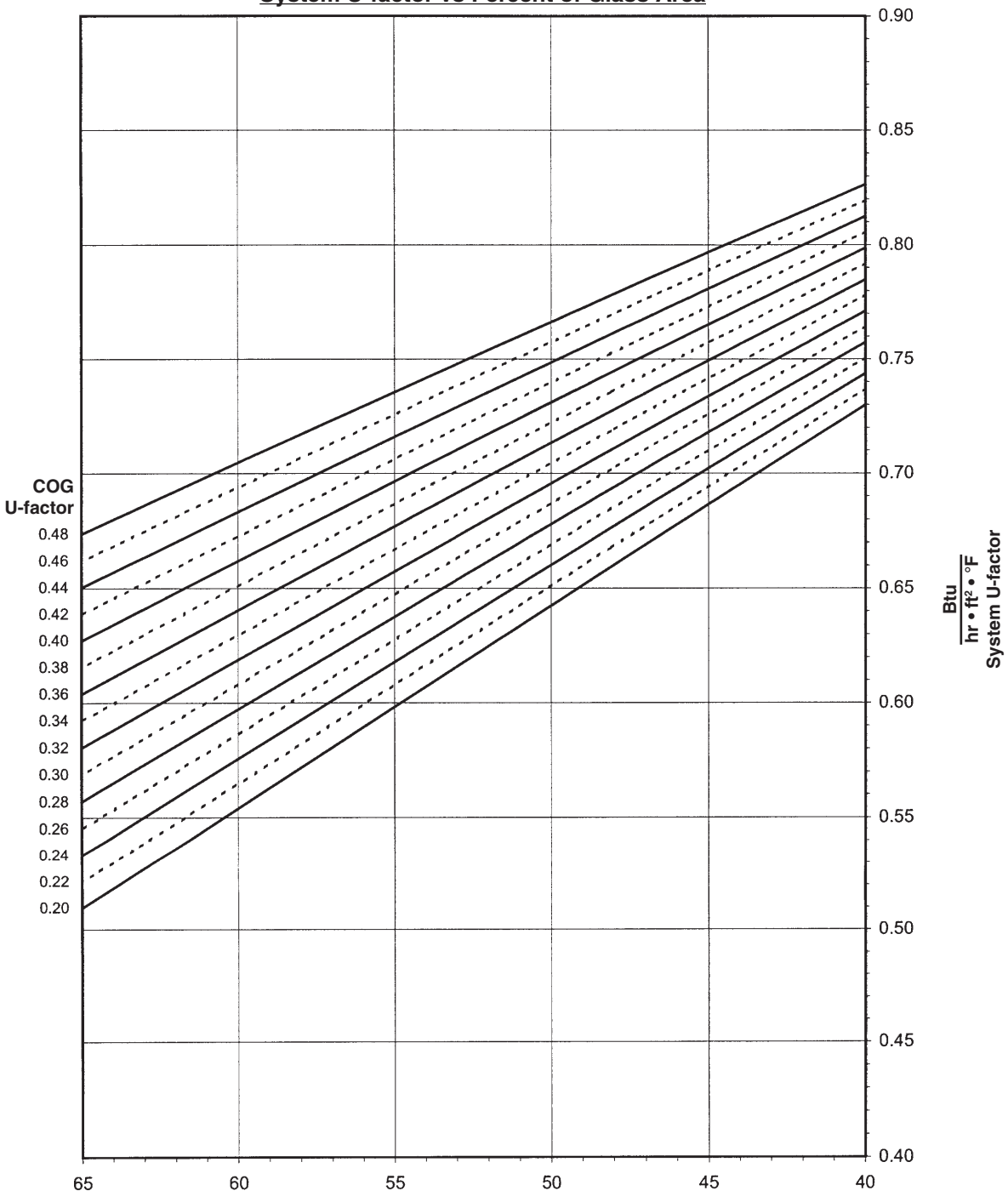
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
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

560 INSULCLAD™ DOOR - SINGLE LEAF

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

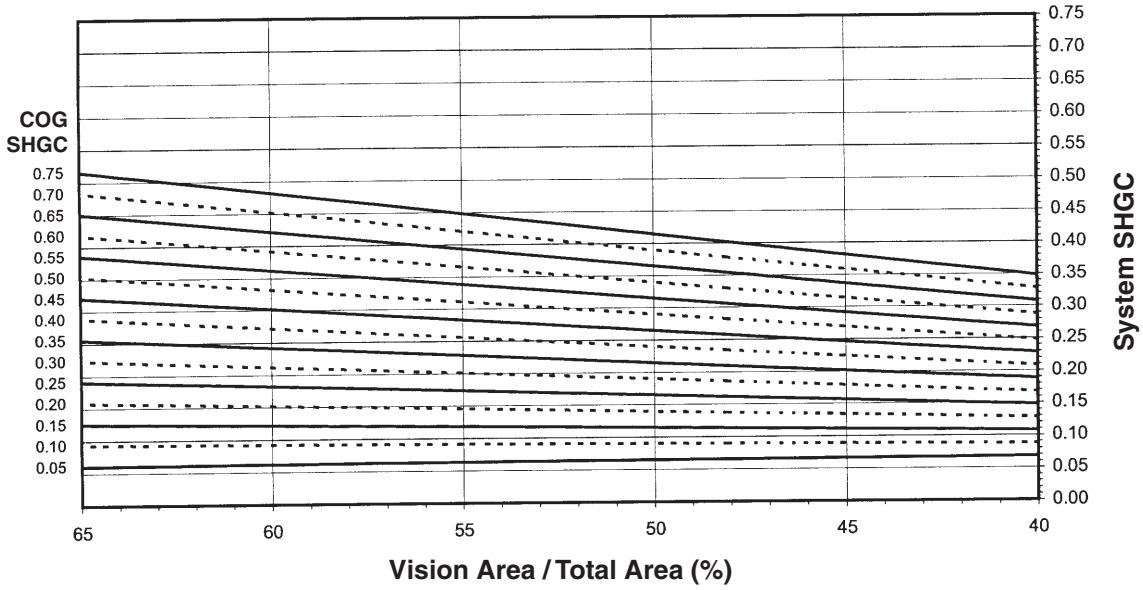
System U-factor vs Percent of Glass Area



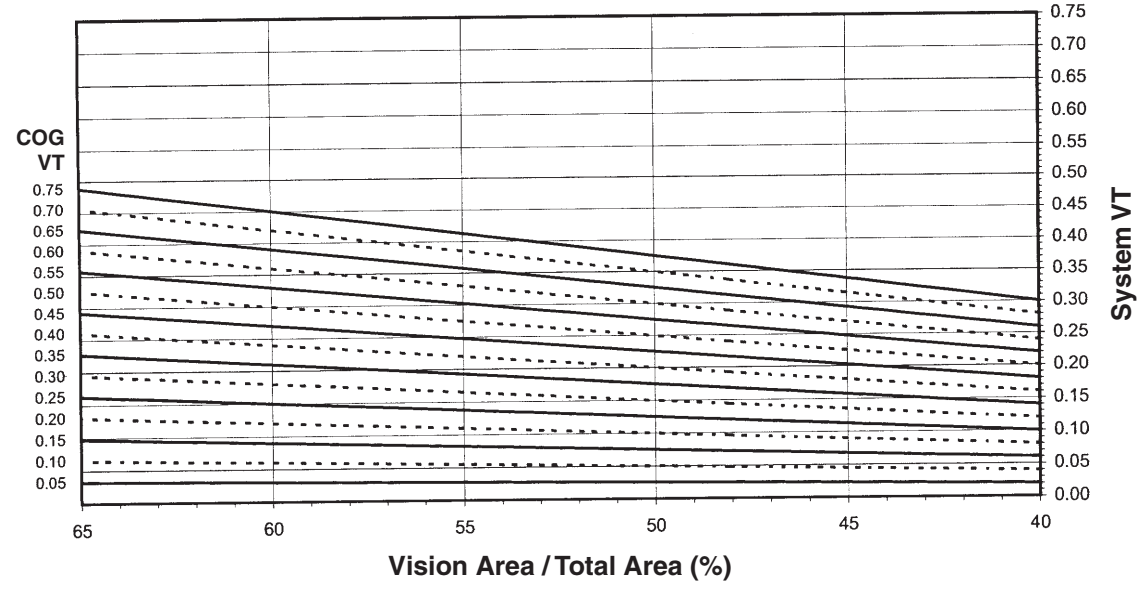
Notes for System U-factor, SHGC and VT charts:
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values and are obtained from your glass supplier.

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



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

Glass U-Factor [3]	Overall U-Factor [4]
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 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 [2]

Glass SHGC [3]	Overall SHGC [4]
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 [2]

Glass VT [3]	Overall VT [4]
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