

Features

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

Optional Features

- Numerous push/pull finishes
- 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.

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.

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

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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

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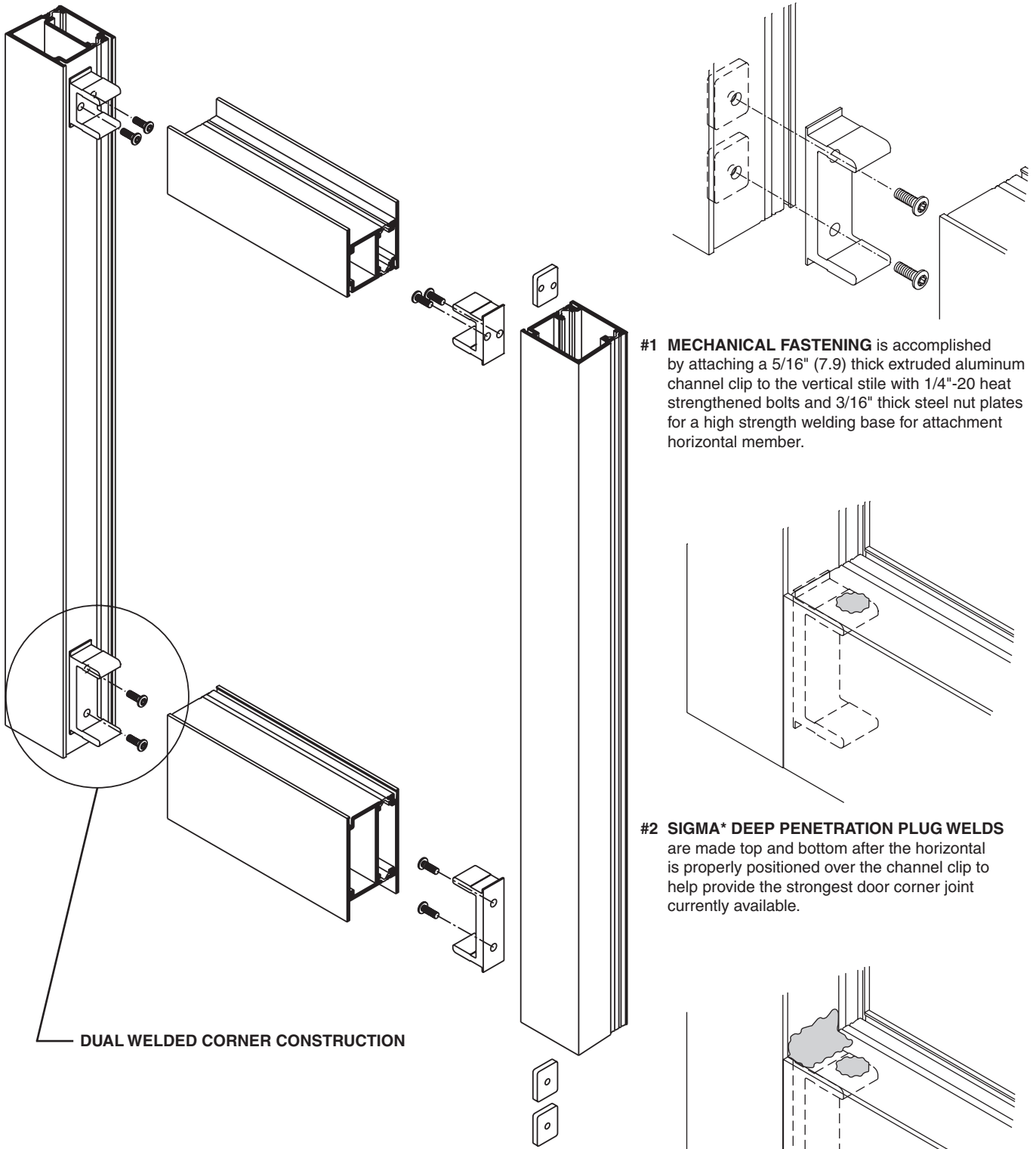
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DUAL WELDED CORNER CONSTRUCTION

#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.

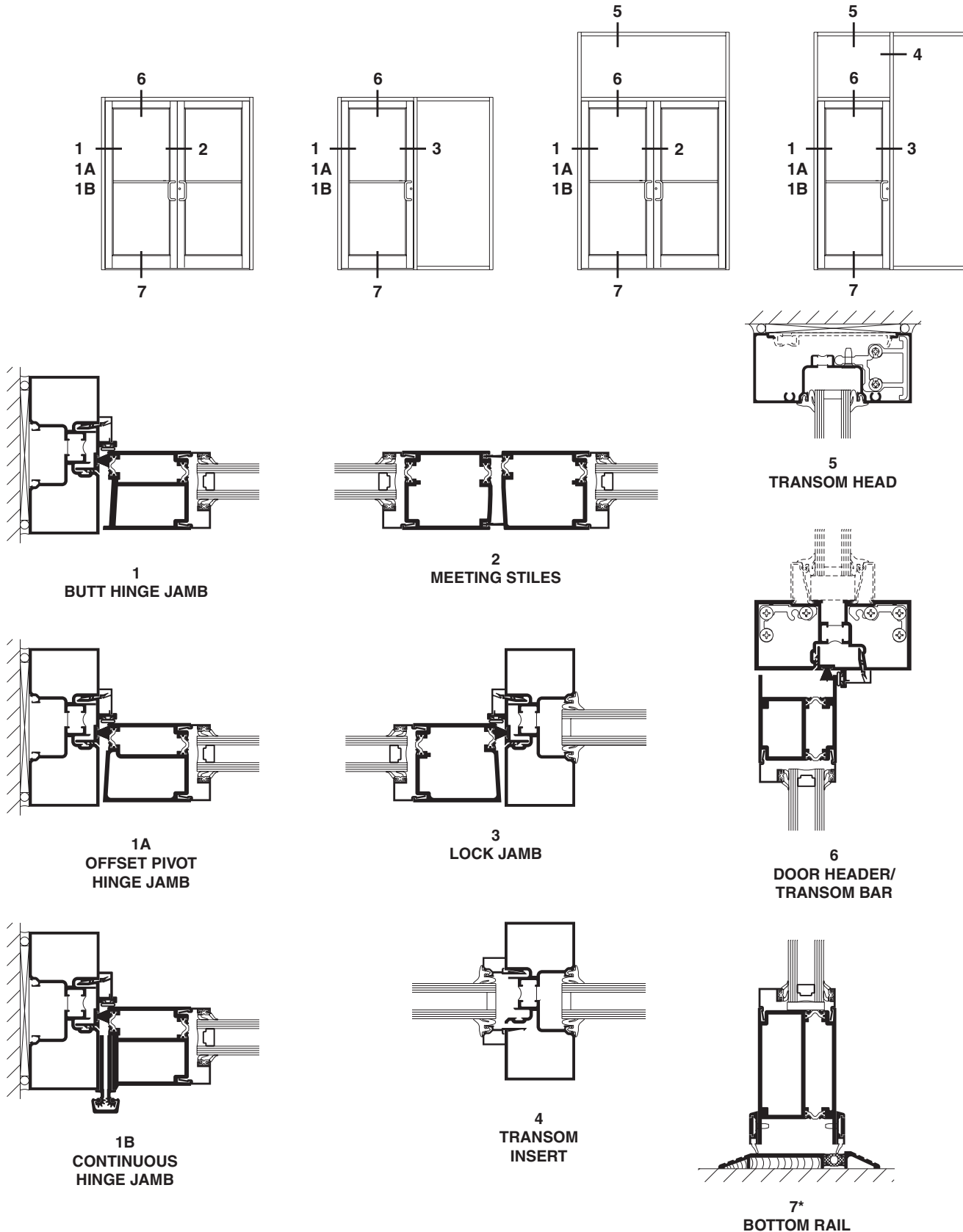
#2 SIGMA* DEEP PENETRATION PLUG WELDS are made top and bottom after the horizontal is properly positioned over the channel clip to help provide the strongest door corner joint currently available.

#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).

SCALE 3" = 1'-0"

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



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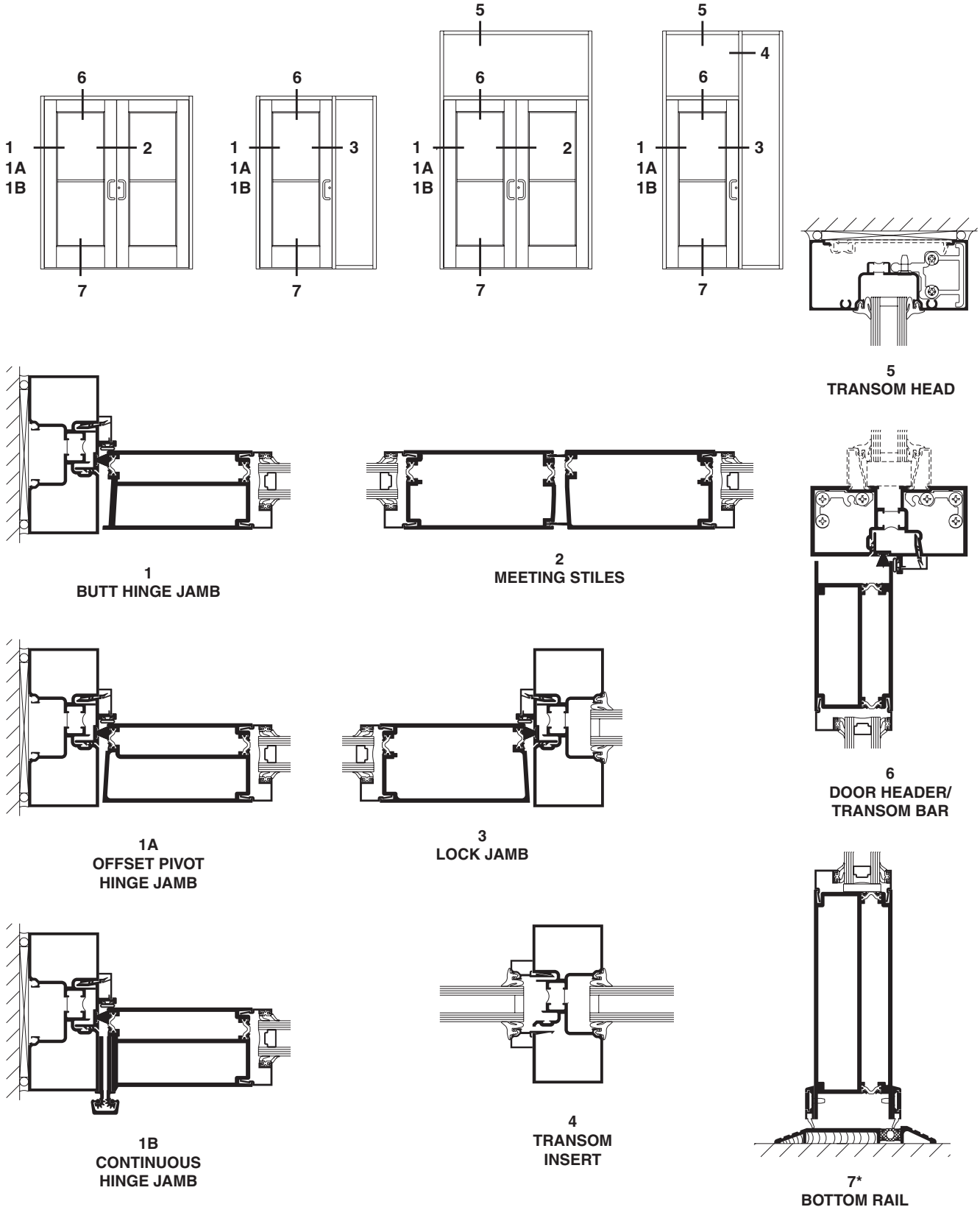
*NOTE: Some building codes limit threshold height to 1/2" (12.7) max.

SCALE 3" = 1'-0"

AA®425 THERMAL ENTRANCE DOORS
SINGLE ACTING
TRIFAB® VG 451T CENTER DOOR FRAMES SHOWN

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.

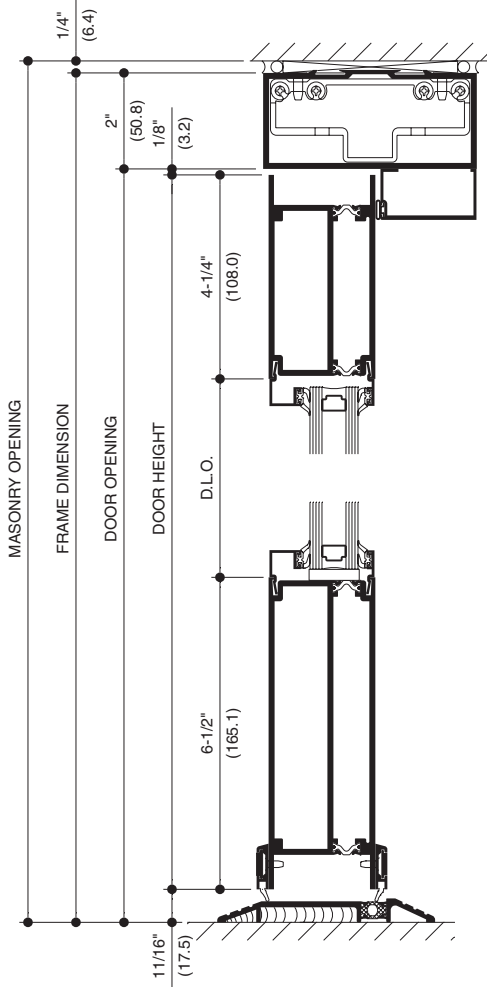
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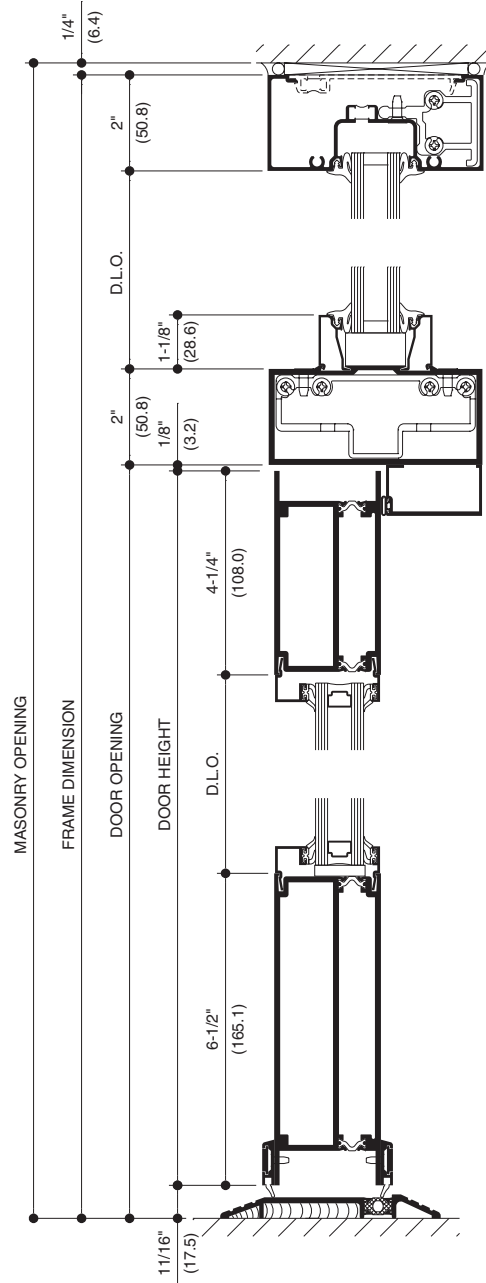
*NOTE: Some building codes limit threshold height to 1/2" (12.7) max.

SCALE 3" = 1'-0"

TRIFAB® VG 451T CENTER DOOR FRAMES



SINGLE ACTING DOOR WITHOUT TRANSOM



SINGLE ACTING DOOR WITH TRANSOM

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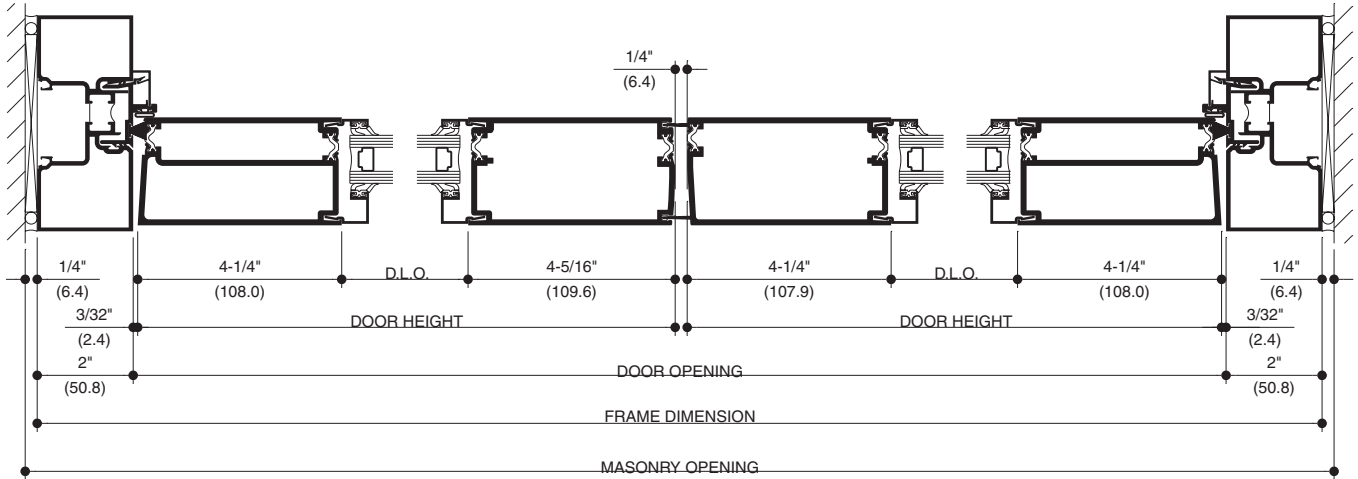
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SCALE 3" = 1'-0"

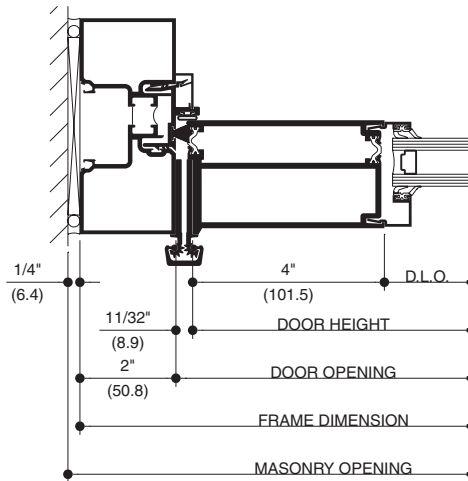
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SINGLE ACTING DOOR



CONTINUOUS HINGE JAMB

STANDARD SIZE TRIFAB® VG 451T CENTER DOOR FRAMES WITHOUT TRANSOM

Door Opening Dimension
 3' 1/2" x 7' 0" (927.1 x 2134)
 3' 6" x 7' 0" (1066.8 x 2134)
 6' 0" x 7' 0" (1829 x 2134)

Overall Frame Dimension
 3' 4" x 7' 1-3/4" (1016 x 2178)
 3' 9-1/2" x 7' 1-3/4" (1155.7 x 2178)
 6' 3-1/2" x 7' 1-3/4" (1918 x 2178)

Masonry Opening Dimension
 3' 4-1/2" x 7' 2" (1028.7 x 2185)
 3' 10" x 7' 2" (1168.4 x 2185)
 6' 4" x 7' 2" (1930 x 2185)

WITH TRANSOM

Door Opening Dimension
 Unchanged from above

Overall Frame Dimension
 Add 3' 1-3/4" (959) to above heights

Masonry Opening Dimension
 Add 3' 1-3/4" (959) to above heights

STANDARD

OPTIONAL

	STANDARD	OPTIONAL
Door Sizes	Standard sizes shown on Page 10.	Any size up to 3'-6" x 8'-0" (1067 x 2438)
Glass Stops	Square glass stops for 1" (25.4) infill.	
Door Frames	<ul style="list-style-type: none"> • Trifab® VG 451T Center - 2" x 4-1/2" (50.8 x 114.3) for double glazing. 	
Push-Pulls	<p>Single Acting:</p> <ul style="list-style-type: none"> • Architects Classic Style "CO-9" Pull and "CP-II" Push bar. • Architects Classic Style "CO-9" Pull and "CP" Push bar. 	<p>Single Acting:</p> <ul style="list-style-type: none"> • Architects Classic Style "CO-12" Pull and "CP-II" Push bar. • Architects Classic Style "CO-12" Pull and "CP" Push bar. • Architects Classic Style "CO-9" / "CO-9" Pull. • Architects Classic Style "CO-12" / "CO-12" Pull.
Door Closers	<p>Single Acting:</p> <ul style="list-style-type: none"> • Norton 1601 adjustable or 1601 BF adjustable surface closer with back-check, and with or without hold-open. 	<p>Single Acting:</p> <ul style="list-style-type: none"> • 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. • Door-O-Matic/Falcon SC 60 surface closer.
Pivots / Butts	<p>Single Acting:</p> <ul style="list-style-type: none"> • Kawneer top and bottom offset pivots. • Kawneer top and bottom 4-1/2" x 4" (114.3 x 101.6) ball bearing butt hinge with non-removable pin (NRP). • Continuous Hinge. 	
Intermediate Pivots / Butts	<p>Single Acting:</p> <ul style="list-style-type: none"> • Kawneer optional intermediate pivot. • Kawneer 4-1/2" x 4" (114.3 x 101.6) ball bearing butt hinge with non-removable pin (NRP). 	
Power Transfers		<p>Single Acting:</p> <ul style="list-style-type: none"> • Kawneer optional intermediate pivot with wire transfer. • Kawneer standard (4-1/2" x 4") (114.3 x 101.6) ball bearing (NRP) butt hinge with wire transfer. • EPT (Electric Power Transfer)
Power Supply		<ul style="list-style-type: none"> • SP 1000 Power Supply
Locks (Active Leaf)	Adams-Rite MS 1850A Deadlock with two 1-5/32" (29.4) diameter 5 pin cylinders.	<ul style="list-style-type: none"> • 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 #4015 & 4016 Three-point Lock. • Adams-Rite #4089 Exit Indicator. • Adams-Rite #7130 Electric Strike. • Kawneer Cylinder Guard. • Kawneer Thumbturn (in lieu of cylinder).

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STANDARD

OPTIONAL

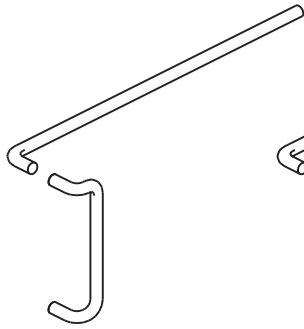
<p>Locks (Inactive Leaf)</p>	<p>One pair of Kawneer flush bolts in the inactive leaf of a pair of doors.</p>	
<p>Threshold</p>	<p>A 1/2" x 4-1/2" (12.7 x 114.3) aluminum mill finish threshold.</p>	
<p>Weathering</p>	<p>SELAIR® Weathering system in the door and frame consisting of a dense, bulb polymeric material, which remains resilient and retains its weathering ability under temperature extremes. Complete with an EPDM blade gasket sweep strip applied to both the interior and exterior of the bottom rail with concealed fasteners.</p>	
<p>Exit Devices</p>	<ul style="list-style-type: none"> • Kawneer 1686 concealed rod exit device with or without a rim type cylinder. • Kawneer 1786 rim type exit device with or without a rim type cylinder. 	<ul style="list-style-type: none"> • Adams-Rite 8600 concealed rod exit device. • Adams-Rite 8400 rim exit device. • Dor-O-Matic/Falcon 1690 concealed rod exit device with or without a rim type cylinder. • Dor-O-Matic/Falcon 1790 rim type exit device with or without a rim type cylinder. • Dor-O-Matic/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. • Dor-O-Matic/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. • Dor-O-Matic/Falcon 1990 is a concealed rod exit device with or without a rim type cylinder. • Dor-O-Matic/Falcon 2090 is a rim type exit device with or without a rim type cylinder. • Von Duprin 33 concealed rod exit device with or without night latch assembly. • Von Duprin 99 concealed rod exit device with or without night latch assembly.
	<p>Exit Device Pulls</p> <ul style="list-style-type: none"> • Architects Classic style "CO-9" Pull. • Architects Classic style "CPN" Pull for Paneline® and Paneline® EL exit devices. 	<p>Exit Device Pulls</p> <ul style="list-style-type: none"> • Architects Classic style "CO-12" Pull (except for Paneline® and Paneline® EL exit devices).

Reference Hardware section for additional information

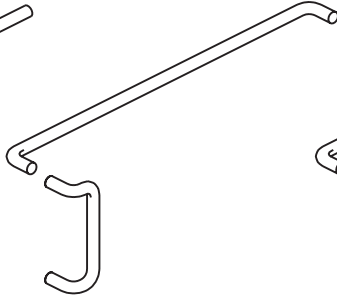
ARCHITECTS CLASSIC (PUSH-PULL SETS)

SINGLE ACTING DOORS USE A PULL HANDLE AND PUSH BAR.

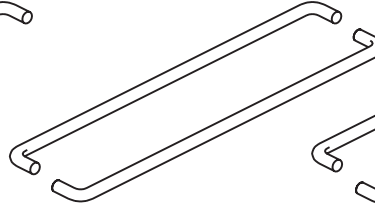
Refer to **HARDWARE SECTION** for complete hardware information.



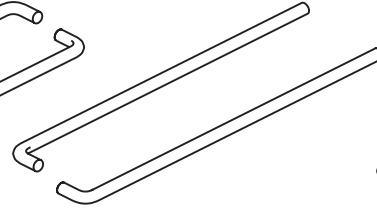
CO-9 / CP
CO-12 / CP



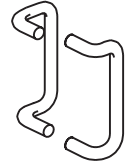
CO-9 / CP-II
CO-12 / CP-II



CP-II / CP-II

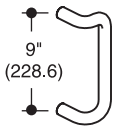


CP / CP



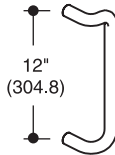
CO-9 / CO-9
CO-12 / CO-12

ARCHITECTS CLASSIC (COMPONENTS)



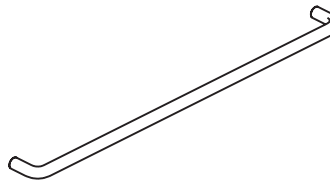
9"
(228.6)

"CO-9"
PULL

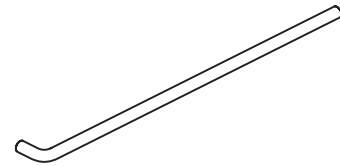


12"
(304.8)

"CO-12"
PULL



"CP-II" PUSH BAR

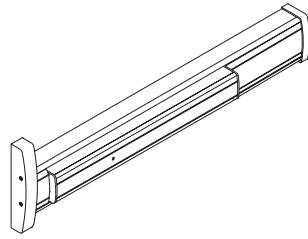


"CP" PUSH BAR

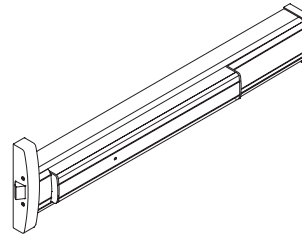
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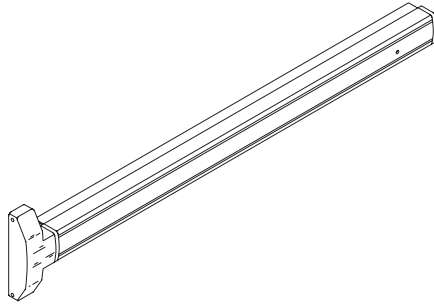
EXIT DEVICES and EXIT DEVICE PULLS



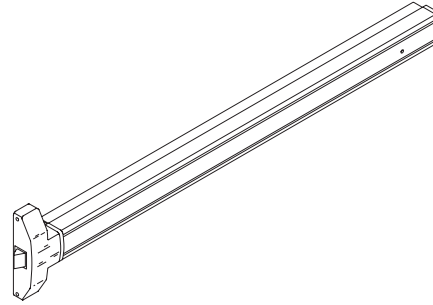
CONCEALED ROD EXIT DEVICE
Kawneer 1686



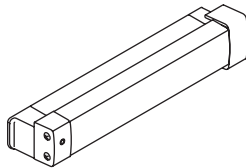
RIM LATCH EXIT DEVICE
Kawneer 1786



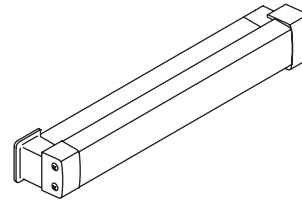
CONCEALED ROD EXIT DEVICE
Dor-O-Matic/Falcon 1690
Dor-O-Matic/Falcon EL 1690



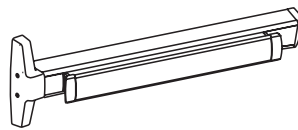
RIM LATCH EXIT DEVICE
Dor-O-Matic/Falcon 1790
Dor-O-Matic/Falcon EL 1790



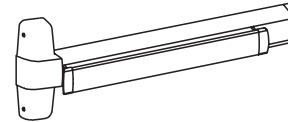
MORTISE EXIT DEVICE
Adams-Rite 8400



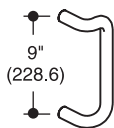
CONCEALED EXIT DEVICE
Adams-Rite 8600



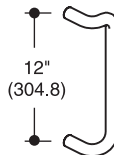
CONCEALED EXIT DEVICE
Von Duprin 3347A



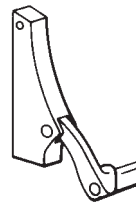
CONCEALED EXIT DEVICE
Von Duprin 9947



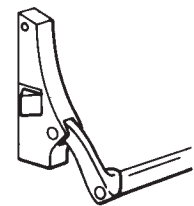
"CO-9"
PULL



"CO-12"
PULL



CONCEALED ROD EXIT DEVICE
Dor-O-Matic/Falcon 1990



RIM LATCH EXIT DEVICE
Dor-O-Matic/Falcon 2090

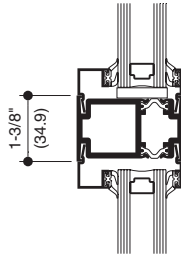
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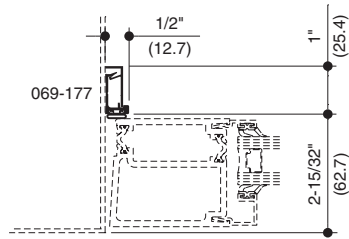
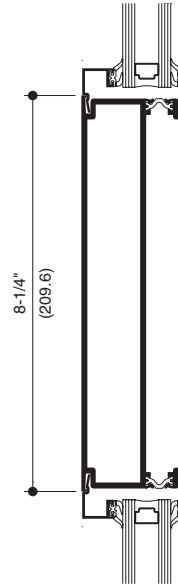
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SCALE 3" = 1'-0"

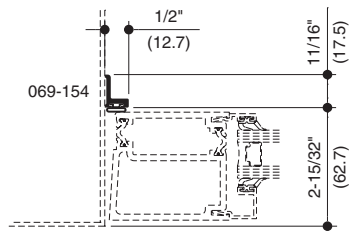
1-3/8" CROSSRAIL



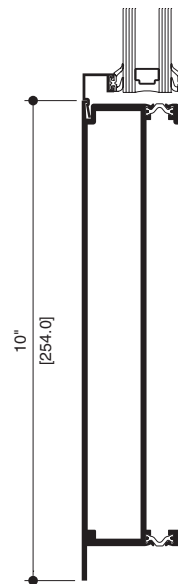
8-1/4" CROSSRAIL



APPLIED DOOR STOP



APPLIED DOOR STOP

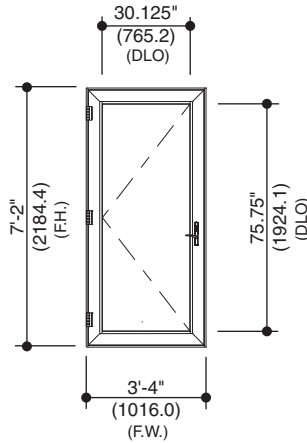


10" BOTTOM RAIL

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Project Specific U-Factor Example Calculation



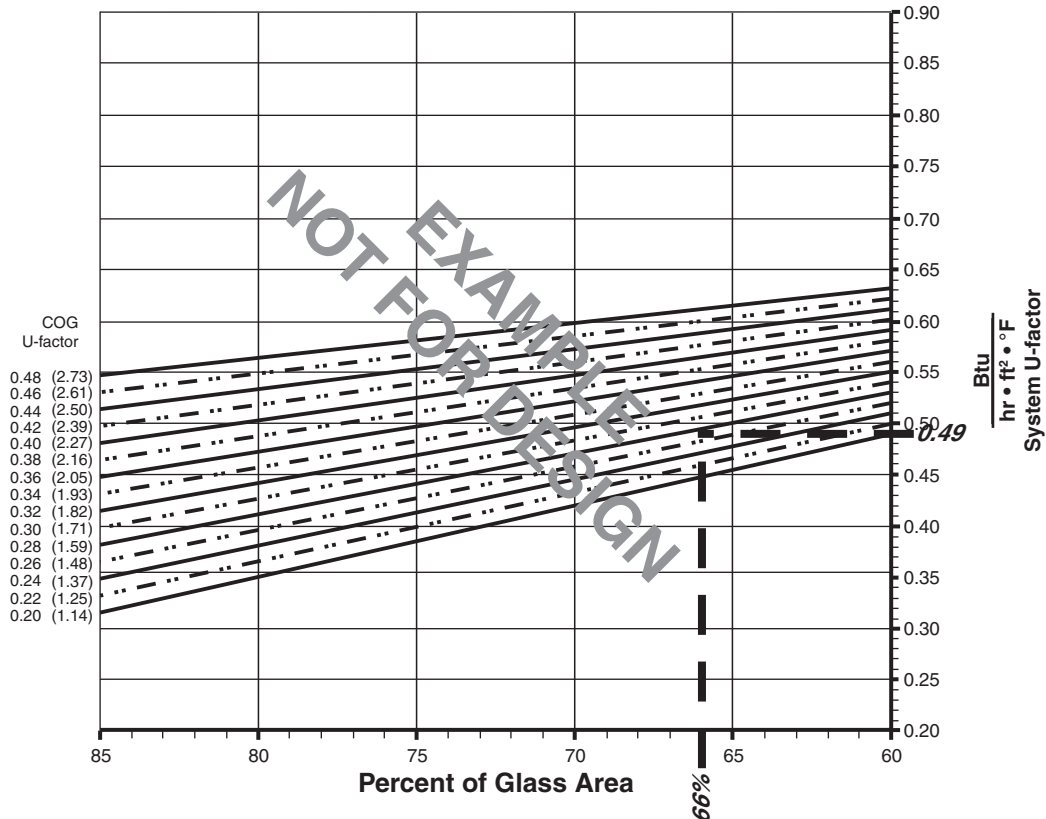
Example Glass U-Factor = 0.28 Btu/hr • ft² • °F

Total Daylight Opening = 30.125" x 75.75" = 15.85 ft²

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

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)100
 = (15.85 ÷ 23.9)100 = 66%

System U-factor vs Percent of Glass Area



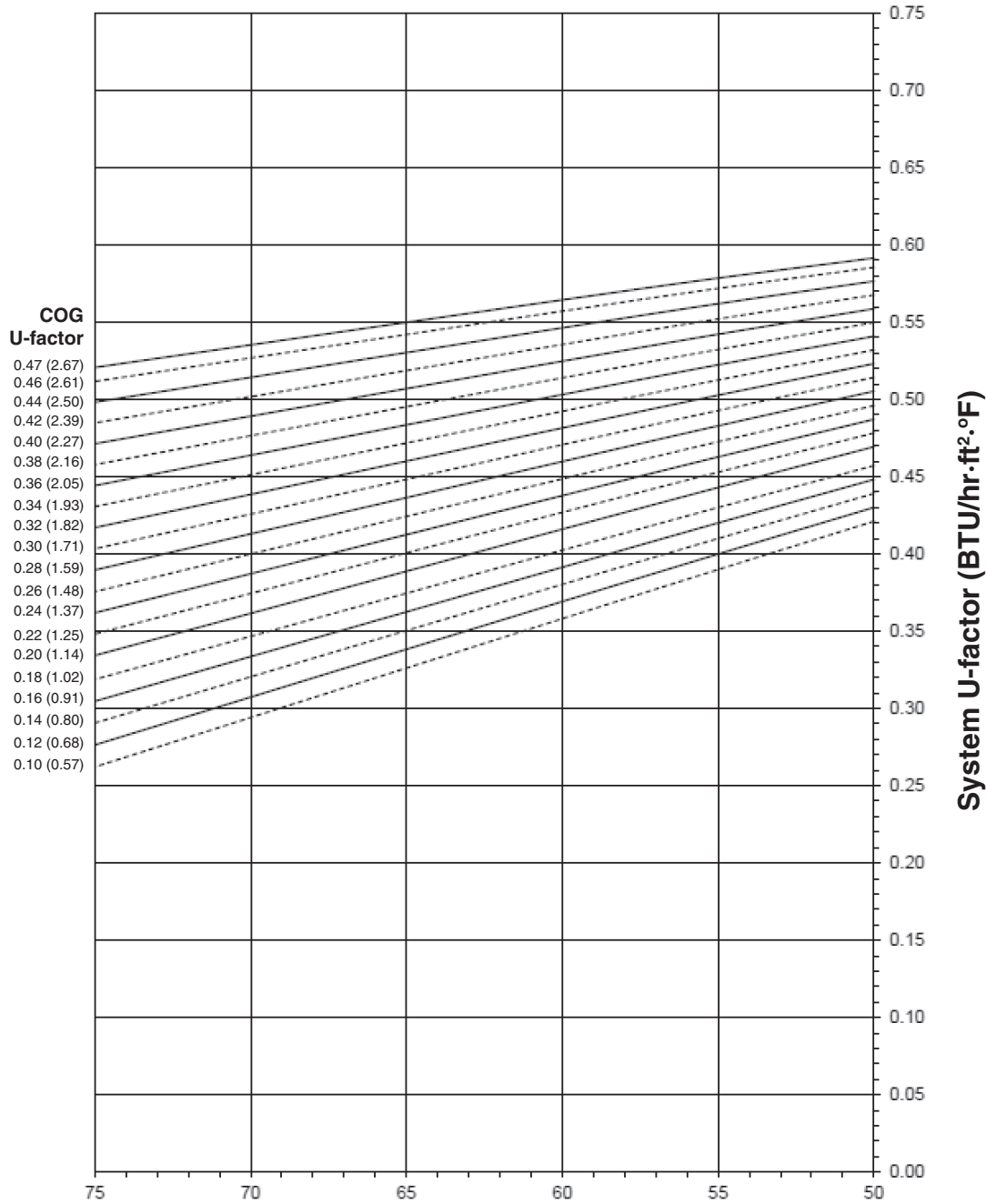
Based on 66% glass and center of glass (COG) U-factor of 0.28
 System U-factor is equal to 0.49 Btu/hr • ft² • °F

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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:

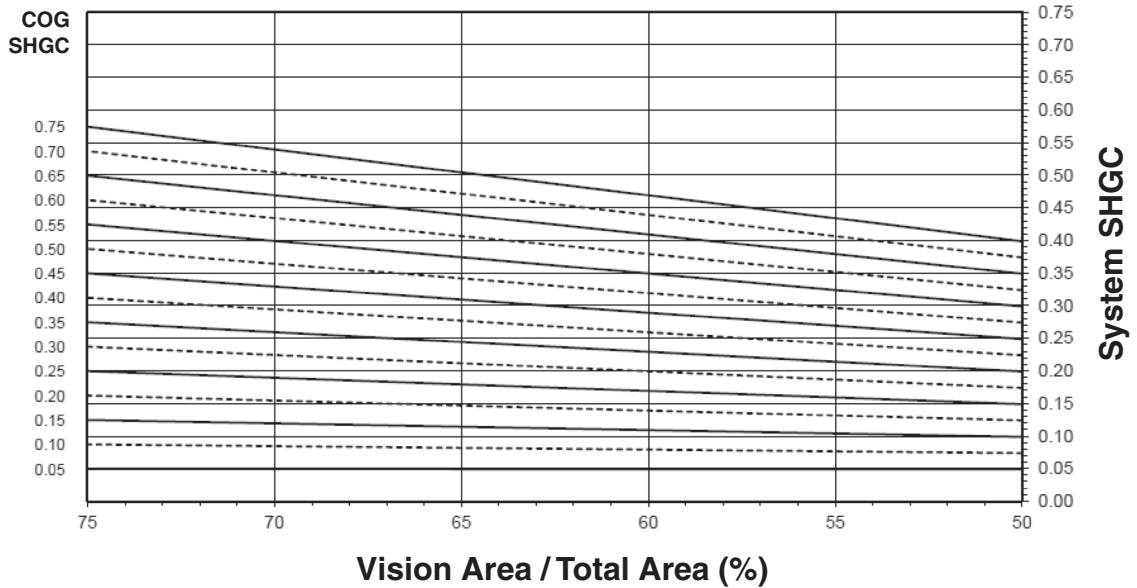
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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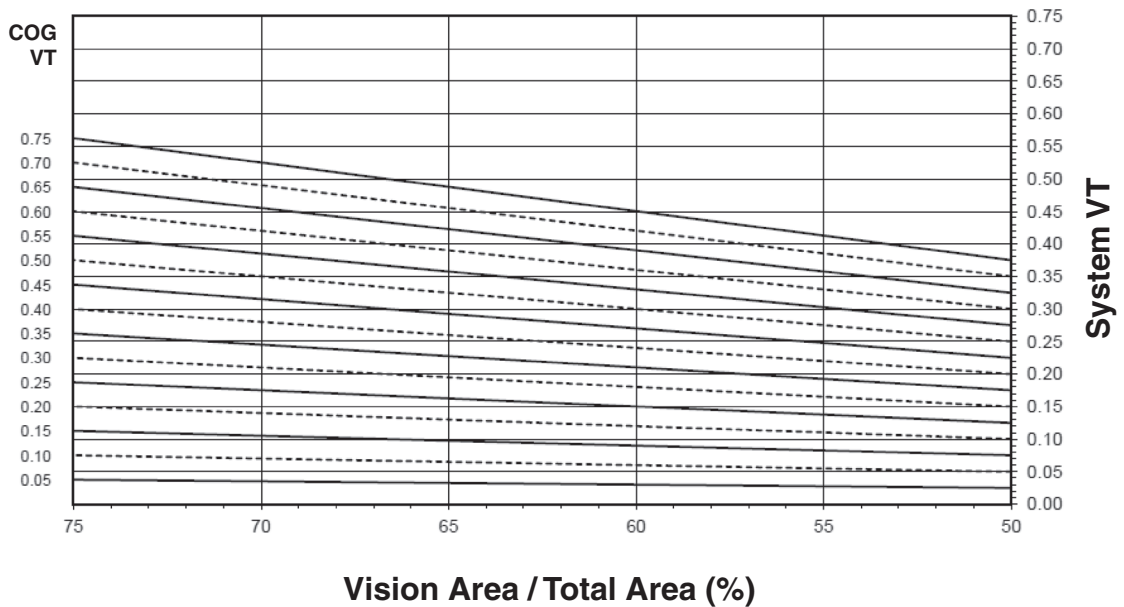
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AA[®]250 (SINGLE DOOR)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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.

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

Glass U-Factor ³	Overall U-Factor ⁴
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	0.45
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

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
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

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 (winter conditions) and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 960mm wide by 2090mm high (37-3/4" by 82-3/8").

Visible Transmittance²

Glass VT ³	Overall VT ⁴
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

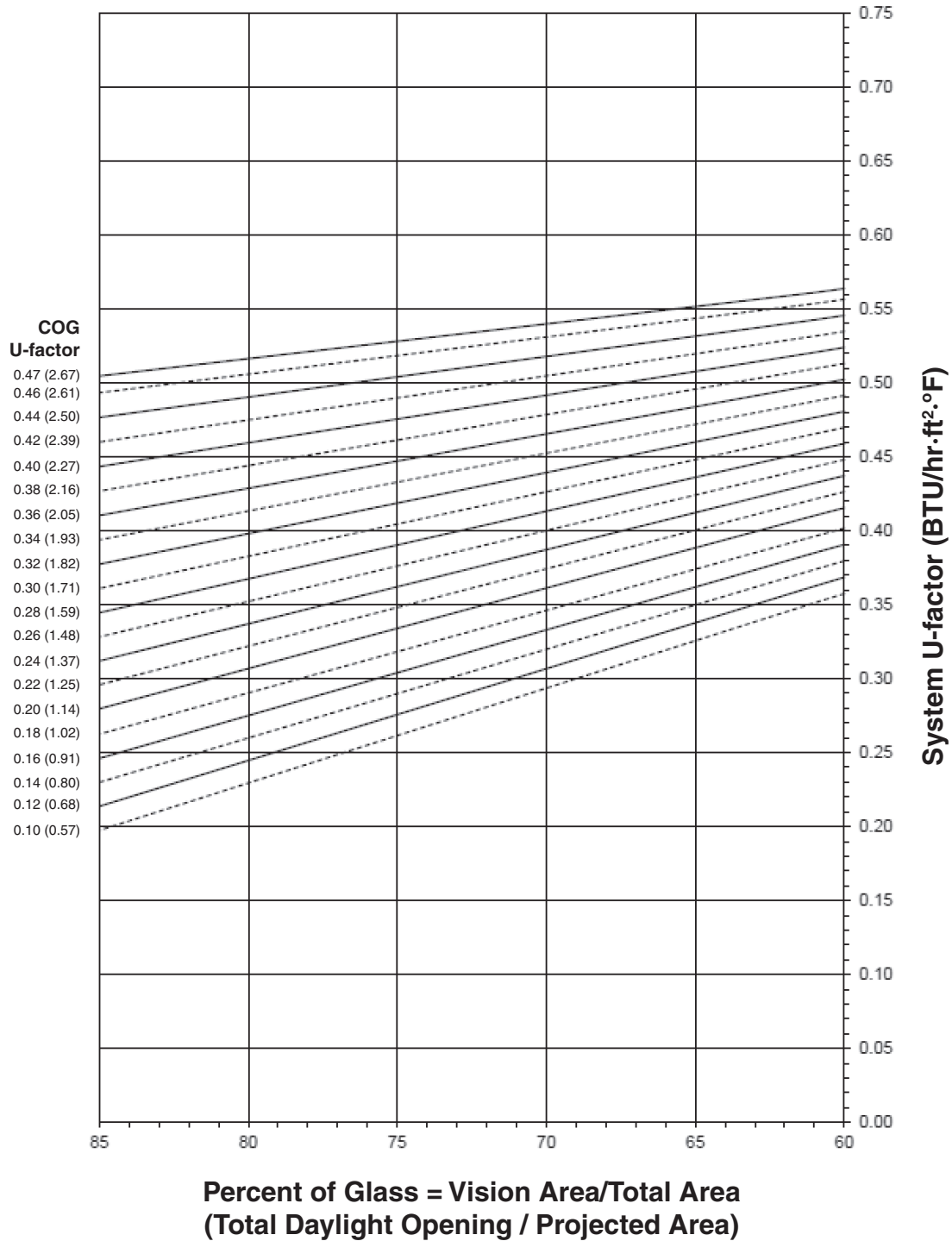
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AA[®]250 (PAIR OF DOORS)

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.

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

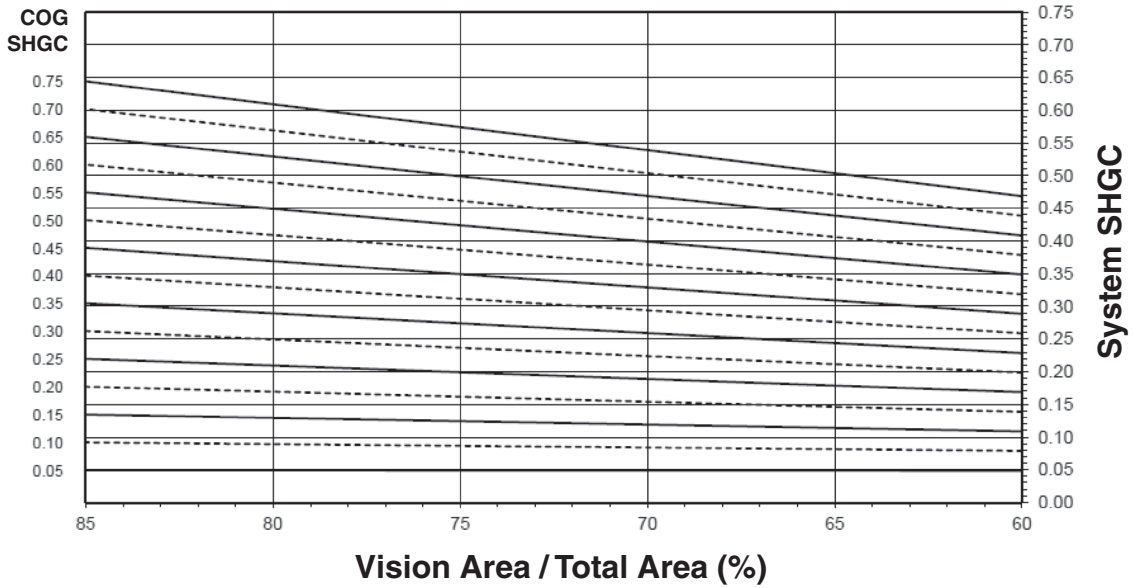
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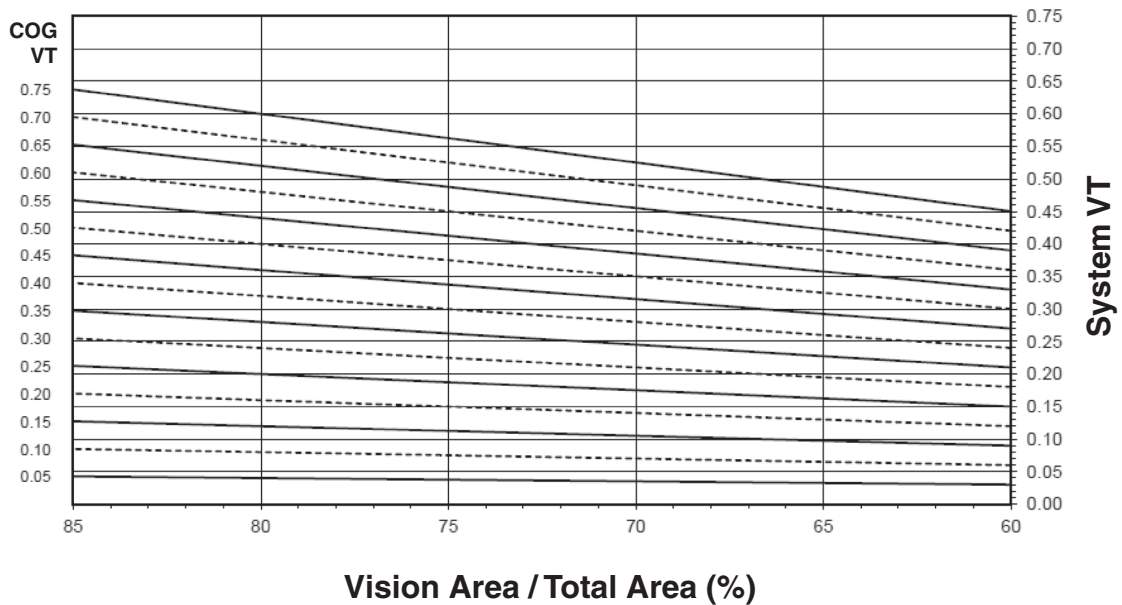
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AA®250 (PAIR OF DOORS)

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 Transmittance¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
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

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
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

AA®250 (PAIR OF DOORS)

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 (winter conditions) and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 1920mm wide by 2090mm high (75-1/2" by 82-3/8").

Visible Transmittance²

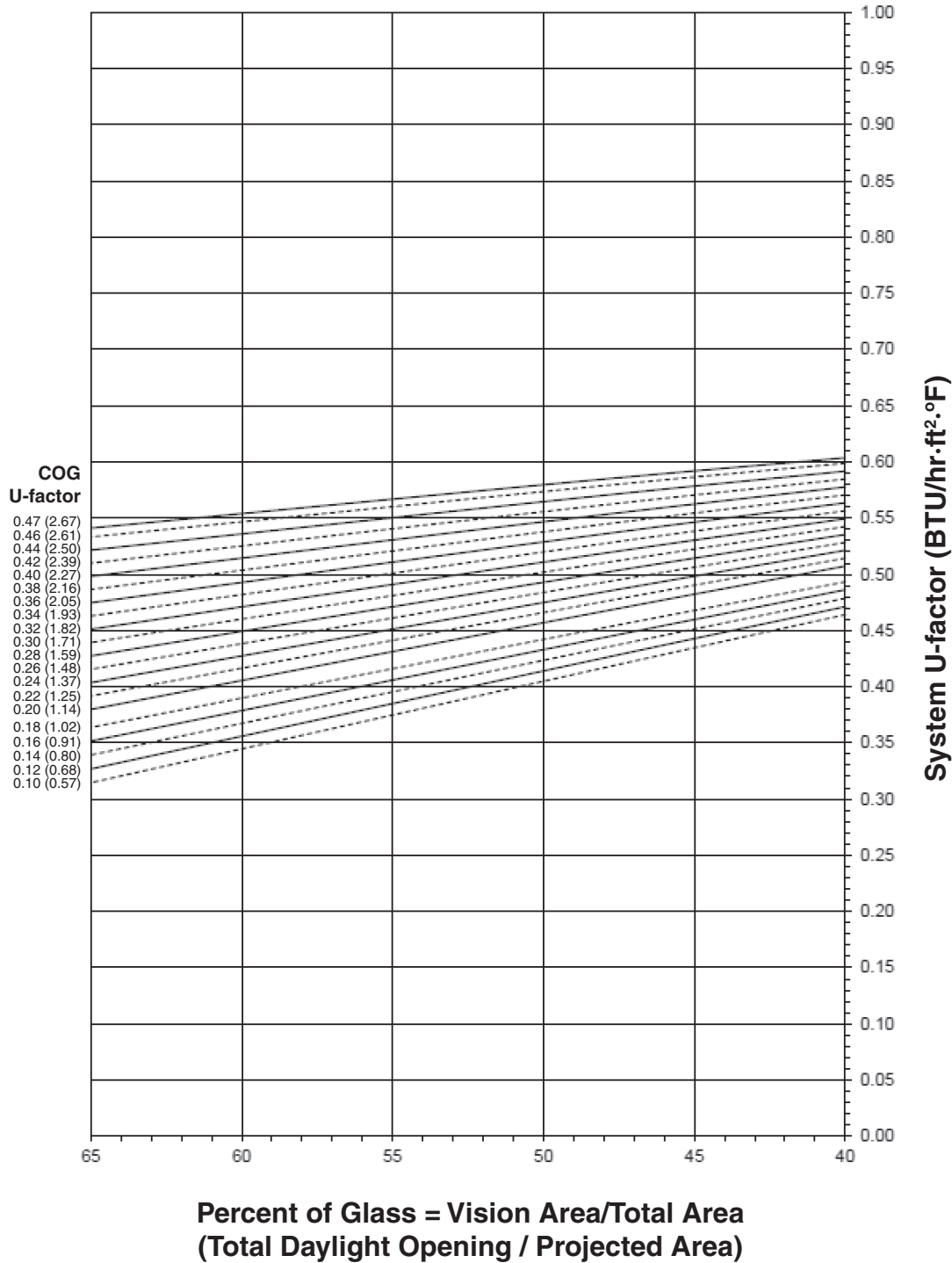
Glass VT ³	Overall VT ⁴
0.75	0.46
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.21
0.30	0.18
0.25	0.15
0.20	0.12
0.15	0.09
0.10	0.06
0.05	0.03

Laws and building and safety codes governing the design and use of 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 (SINGLE DOOR)

System U-factor vs Percent of Glass Area



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

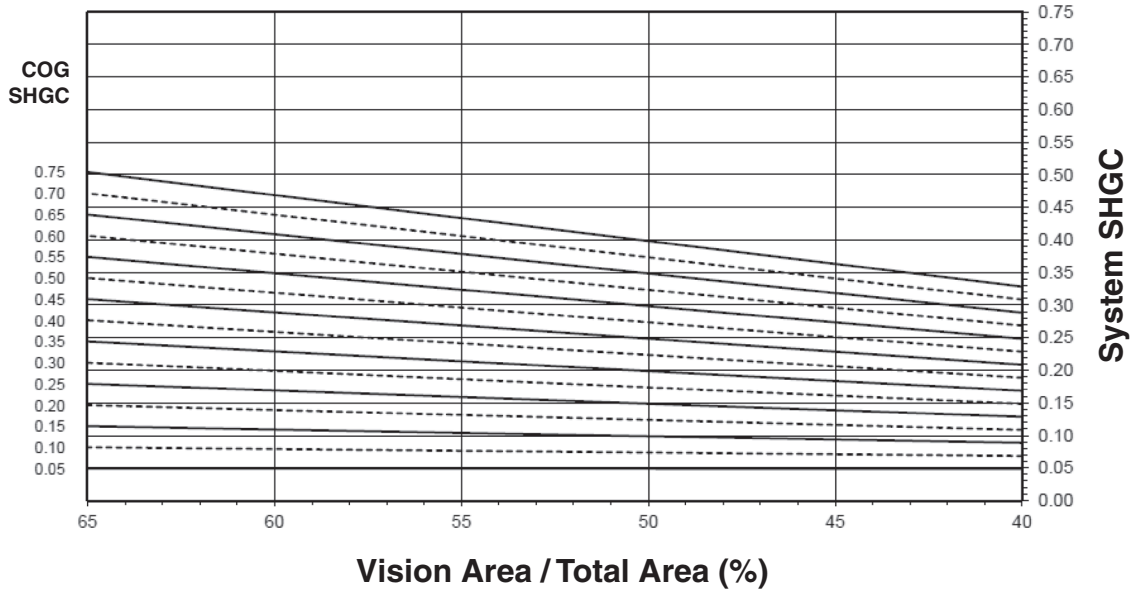
For glass values that are not listed, linear interpolation is permitted.
 Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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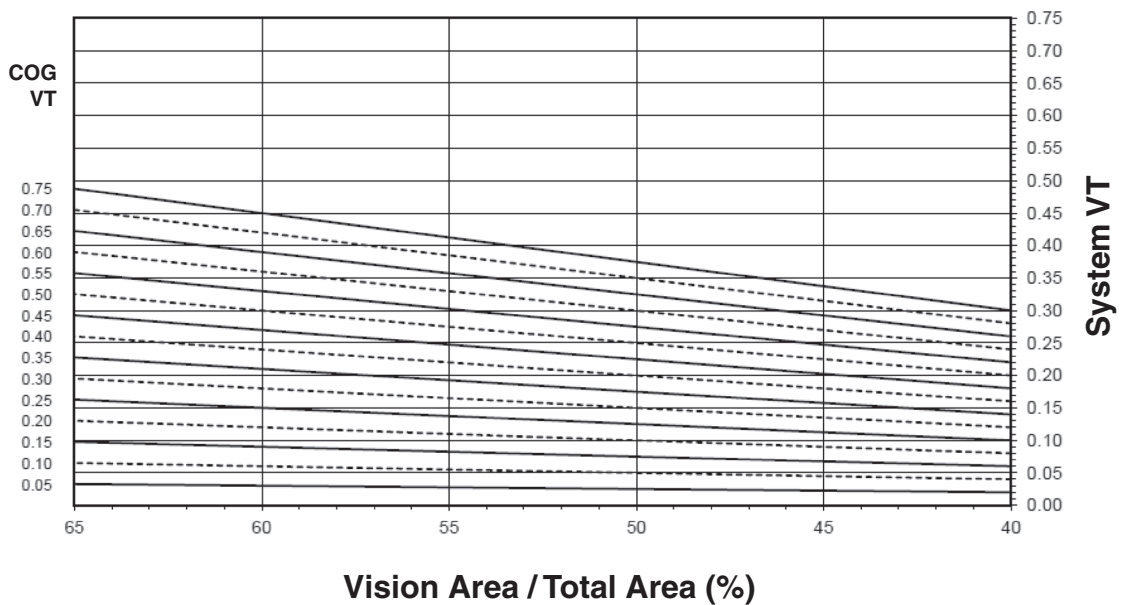
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AA[®]425 (SINGLE DOOR)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor ³	Overall U-Factor ⁴
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

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
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

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 (winter conditions) and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 960mm wide by 2090mm high (37-3/4" by 82-3/8").

Visible Transmittance²

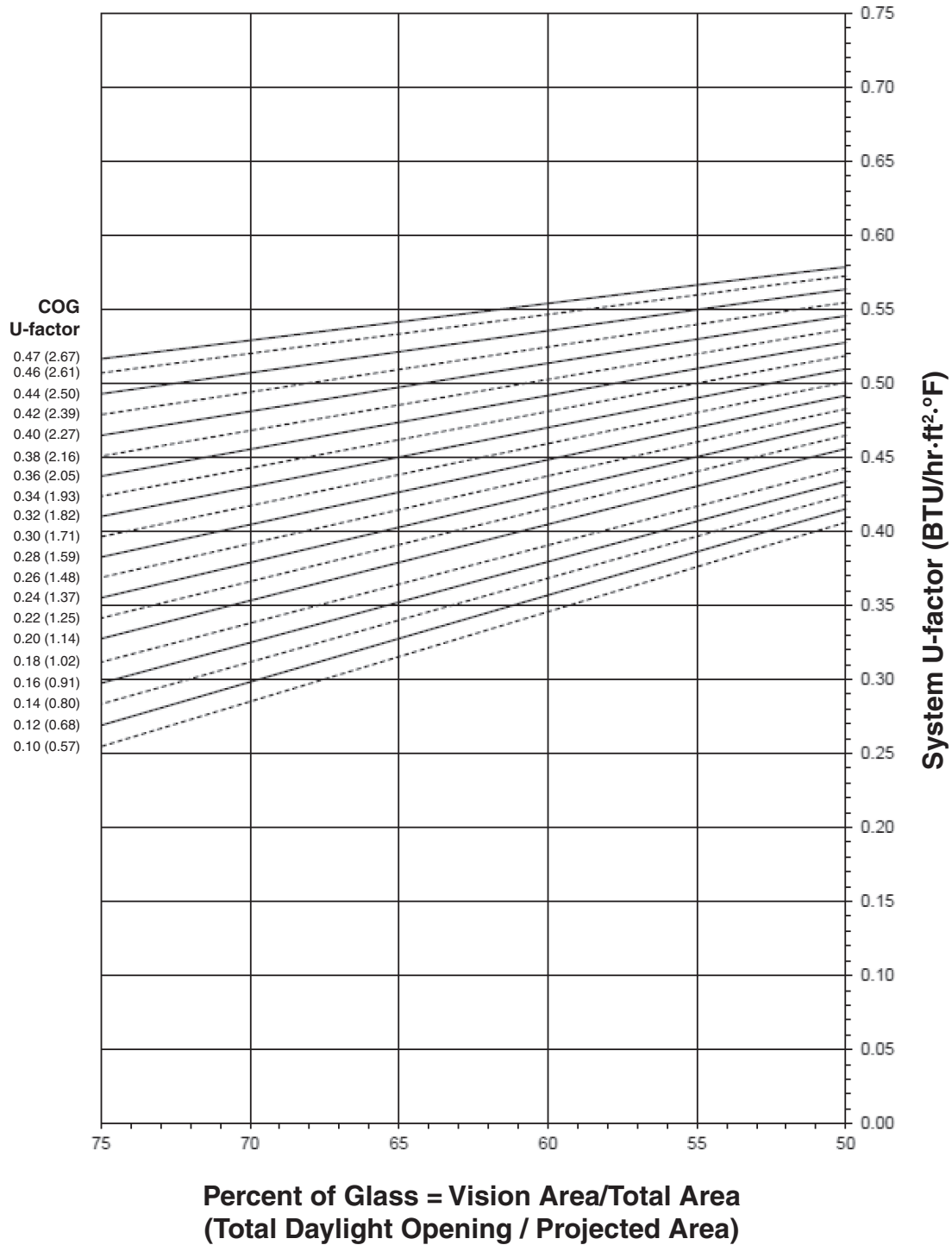
Glass VT ³	Overall VT ⁴
0.75	0.36
0.70	0.34
0.65	0.32
0.60	0.29
0.55	0.27
0.50	0.24
0.45	0.22
0.40	0.19
0.35	0.17
0.30	0.15
0.25	0.12
0.20	0.10
0.15	0.07
0.10	0.05
0.05	0.02

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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.

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

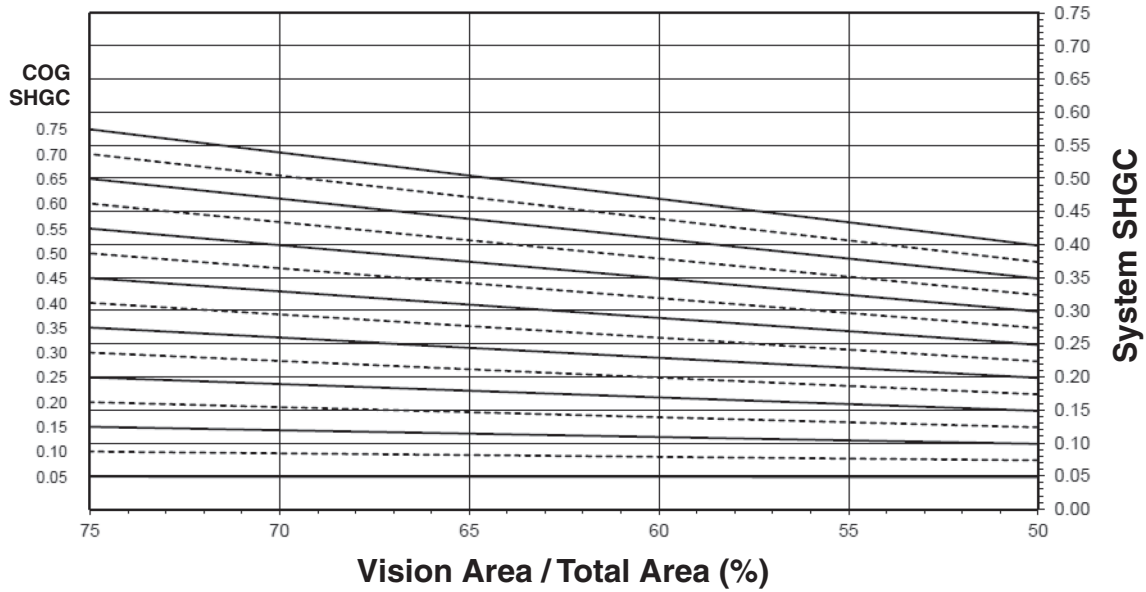
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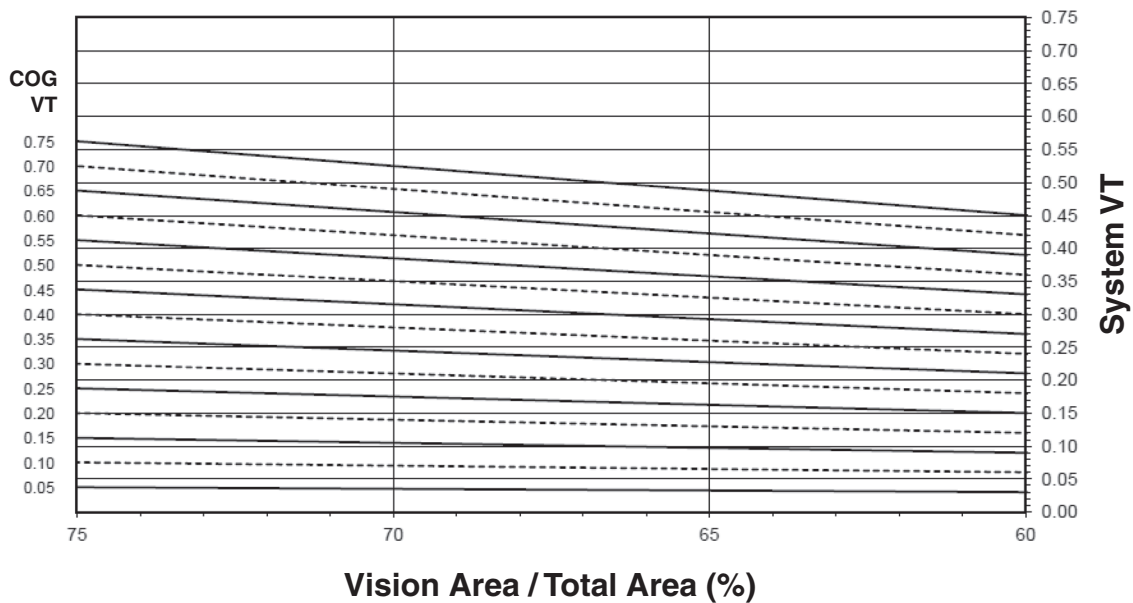
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AA®425 (PAIR OF DOORS)

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 ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
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

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
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

AA®425 (PAIR OF DOORS)

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 (winter conditions) and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 1920mm wide by 2090mm high (75-1/2" by 82-3/8").

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
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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