

Features

- 350 Tuffline® has 3-1/2" vertical stile, 3-3/8" top and 6-3/4" bottom rail
- 500 Tuffline® has 5" vertical stile, 5" top and 6-3/4" bottom rail
- Door is 2" deep and has 3/16" walls
- Dual moment welded corner construction
- Single acting
- Heavy duty offset pivots, butt hinges or continuous geared hinge
- Surface mounted or concealed closers
- MS locks or panic hardware
- Architects Classic push/pulls
- 1/4", 5/8" or 1" infills
- Double weatherstripping at meeting stiles; single exterior pile and interior twin-fin polymeric adjustable astragal
- Frame is 2" x 4-1/2" and includes 3/16" wall thickness at all hardware attachment points
- Sealair® bulb polymeric weatherstripping in door frames
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- Numerous push/pull finishes
- Paneline® exit device, Paneline® EL exit device
- Various bottom and cross rails
- Optional 3/16" wall thickness throughout frame

Product Applications

- 350 Tuffline® - constructed for unequalled strength and designed for high traffic and high abuse applications such as schools, universities and sports stadiums
- 500 Tuffline® - offers the same performance features as the 350 Tuffline® except in a wide stile design

For specific product applications,
Consult your Kawneer representative.

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350 ENTRANCE DETAILS (Standard Frame) 6
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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 (S1) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

The following metric (S1) units are found in these details:

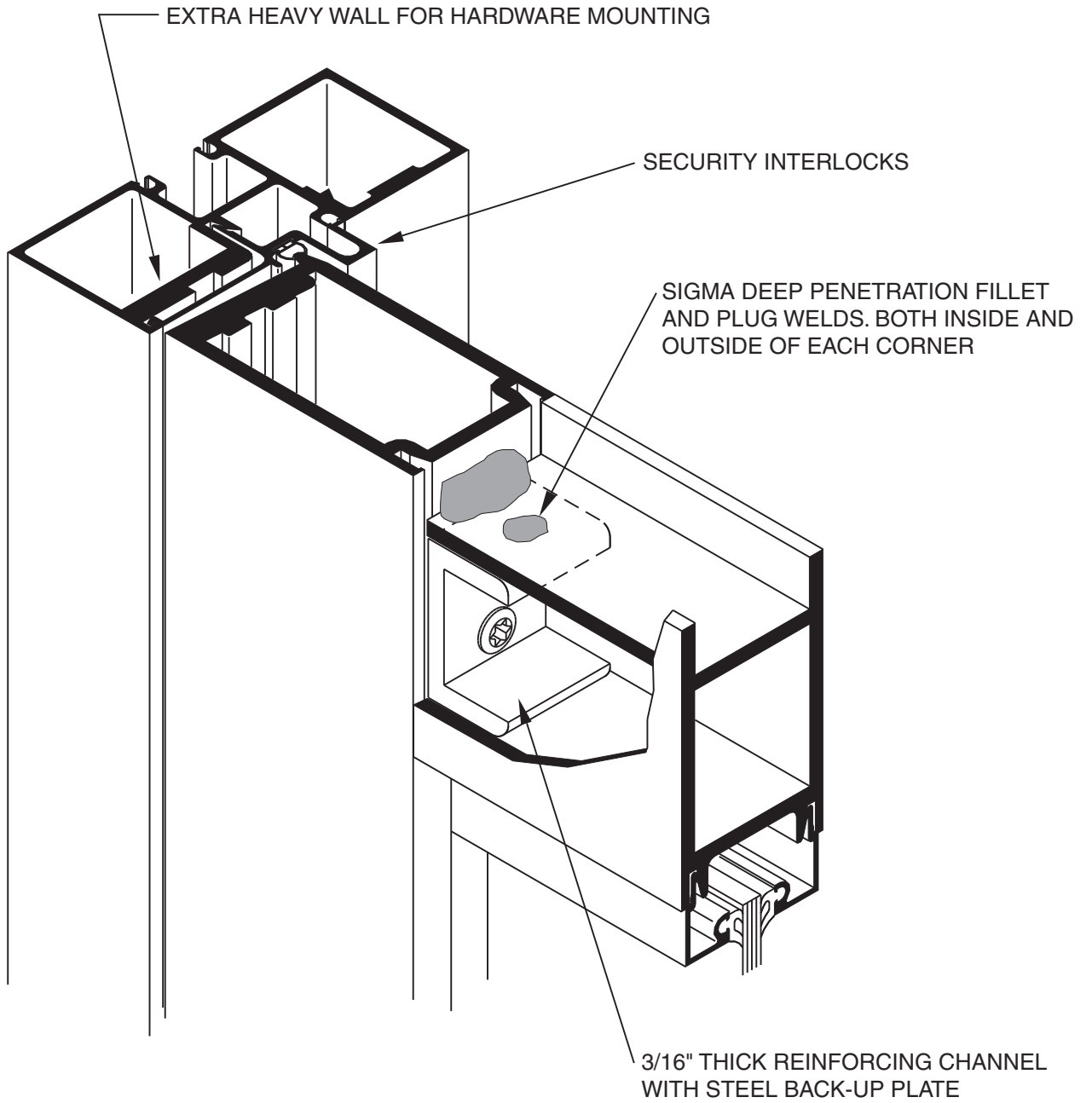
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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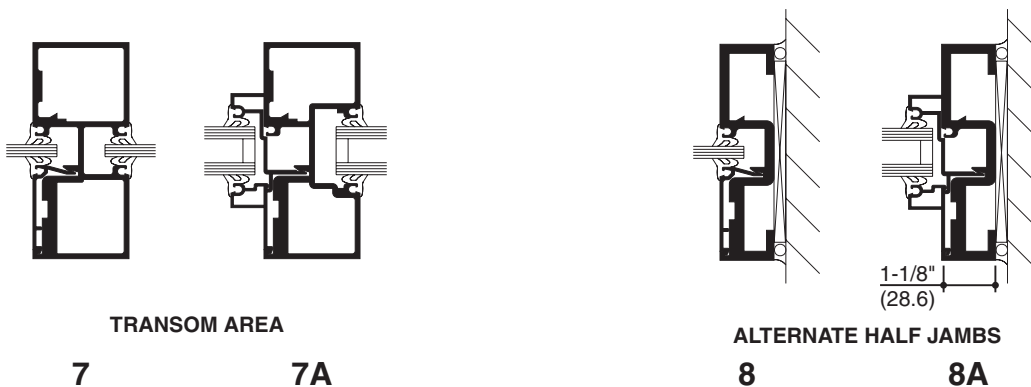
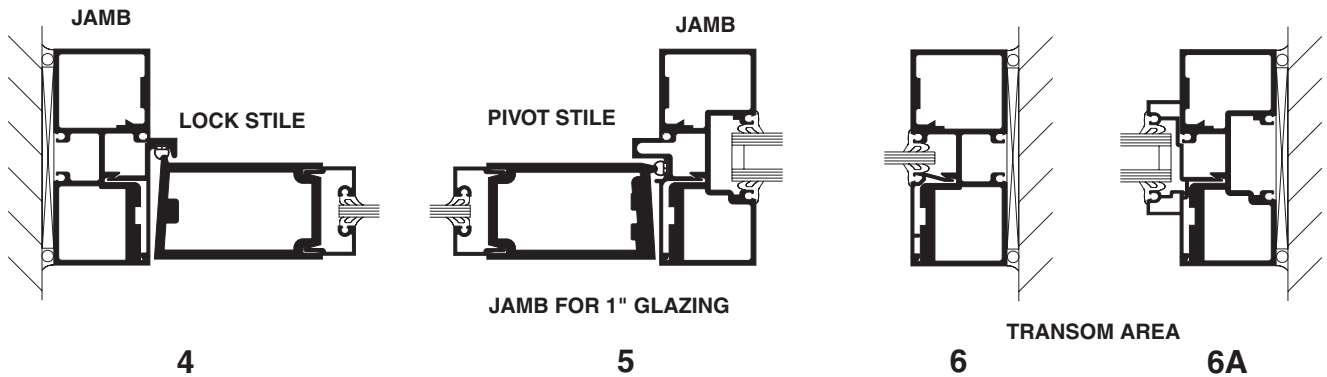
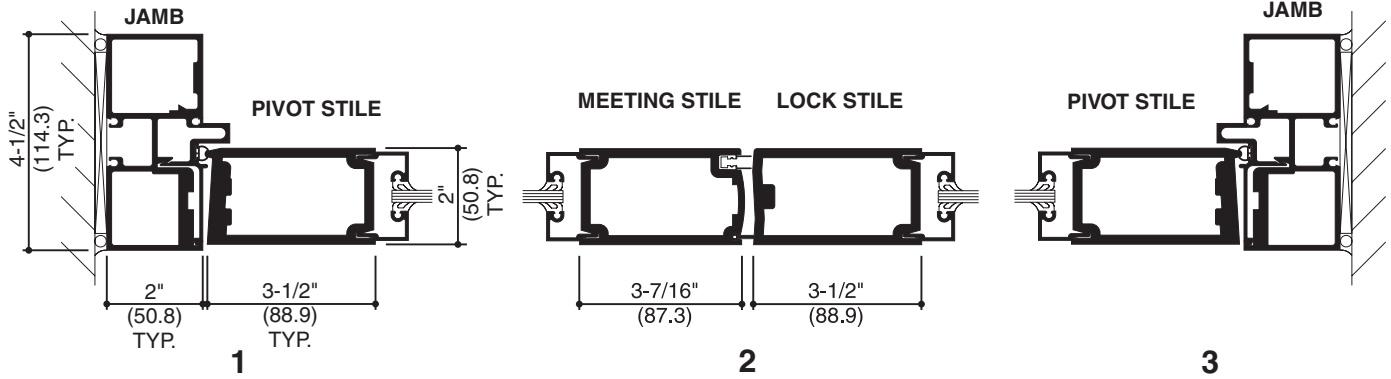
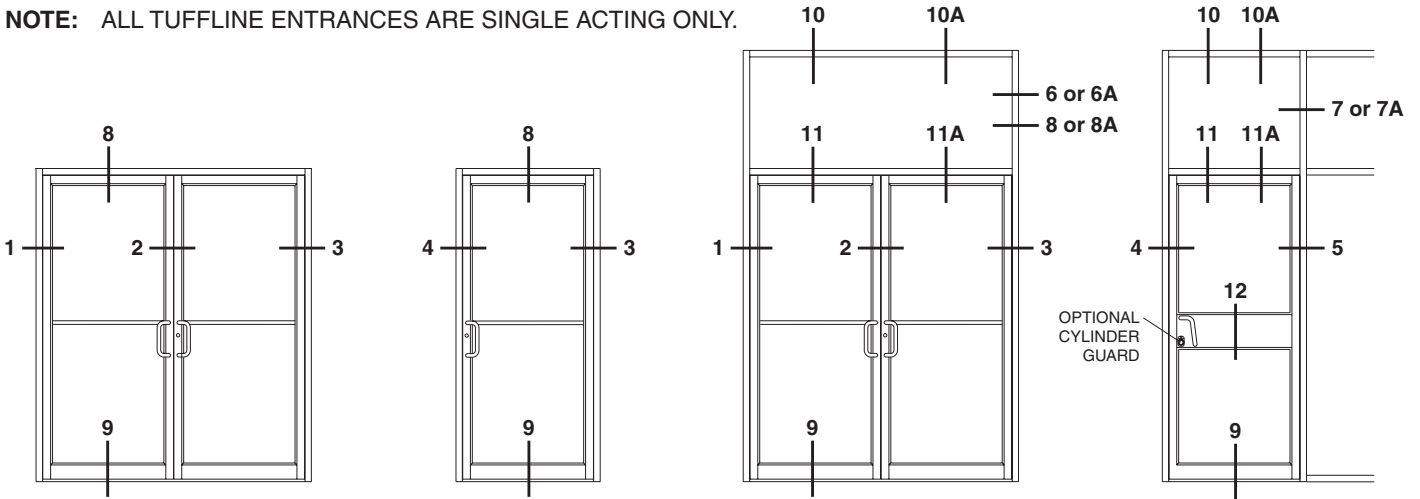


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SCALE 3" = 1' - 0"

NOTE: ALL TUFFLINE ENTRANCES ARE SINGLE ACTING ONLY.

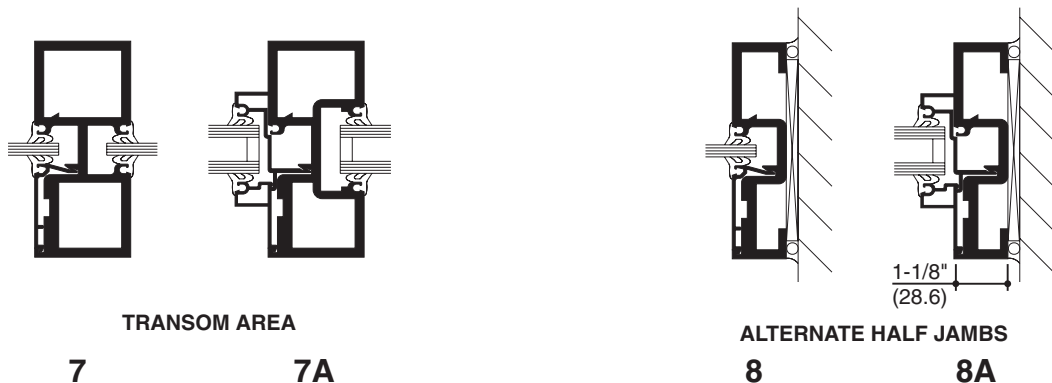
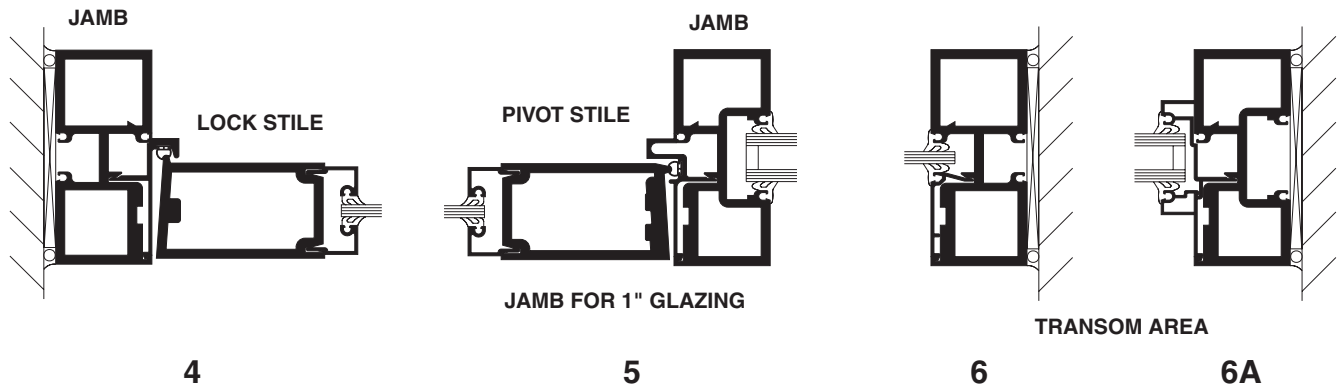
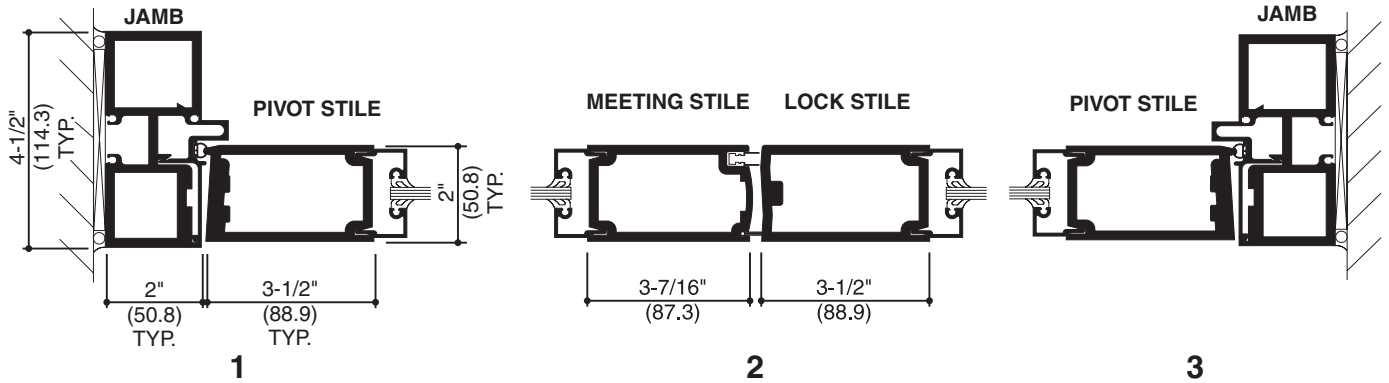
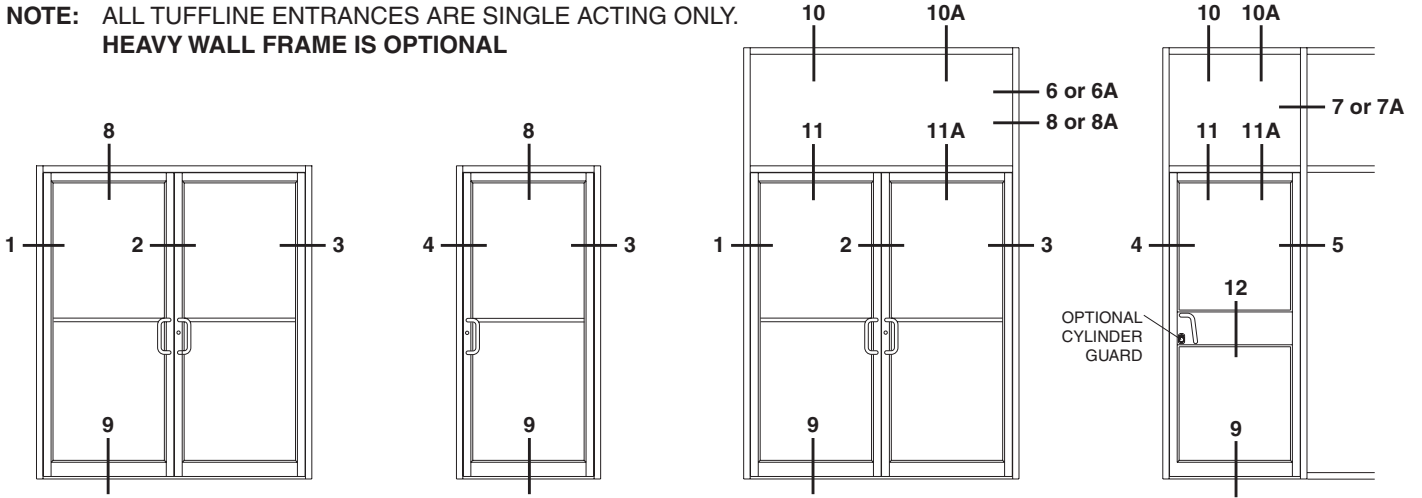


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**NOTE: ALL TUFFLINE ENTRANCES ARE SINGLE ACTING ONLY.
HEAVY WALL FRAME IS OPTIONAL**

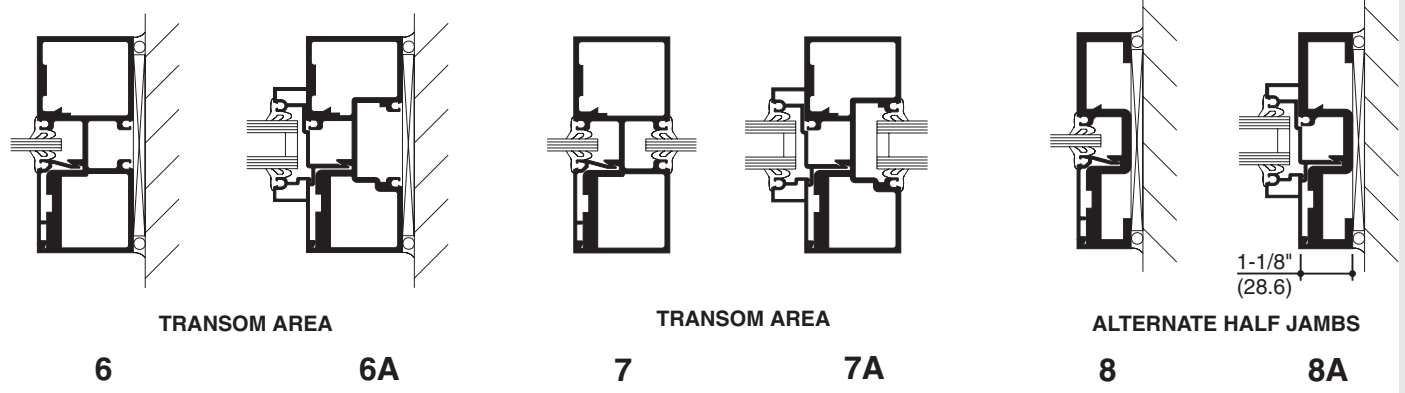
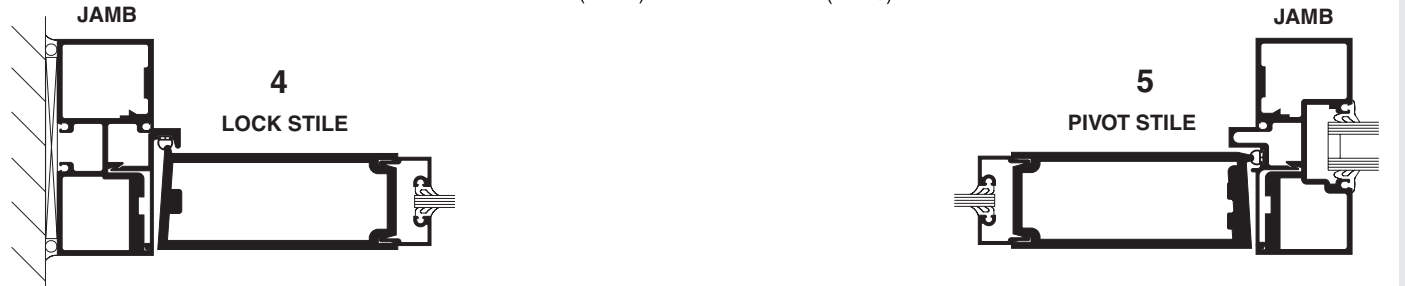
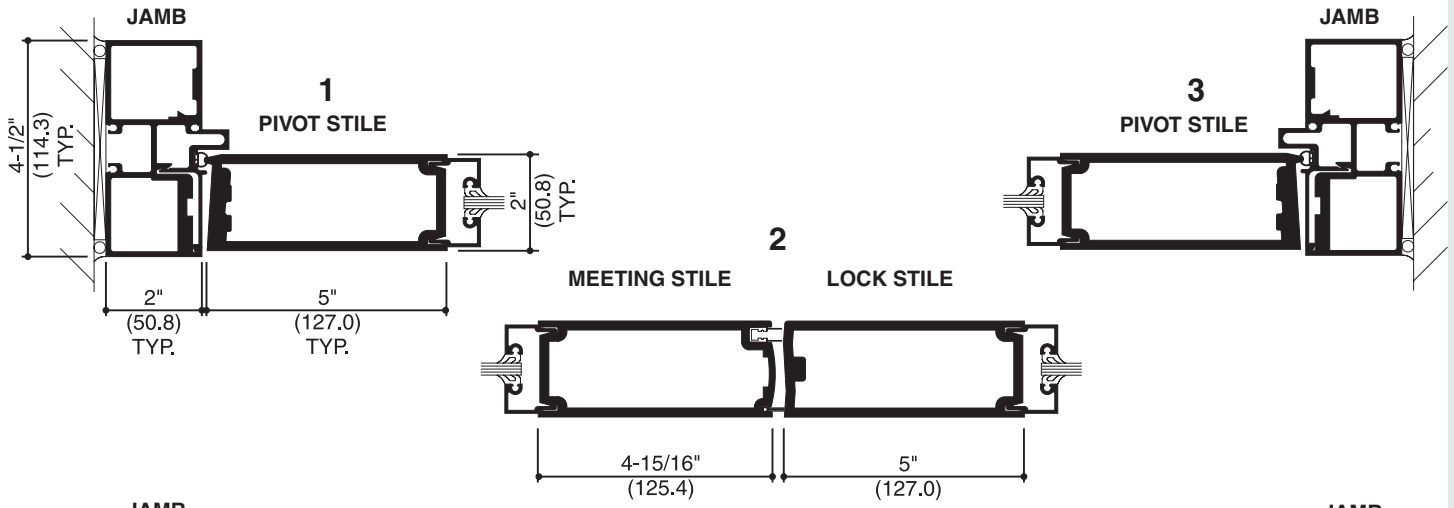
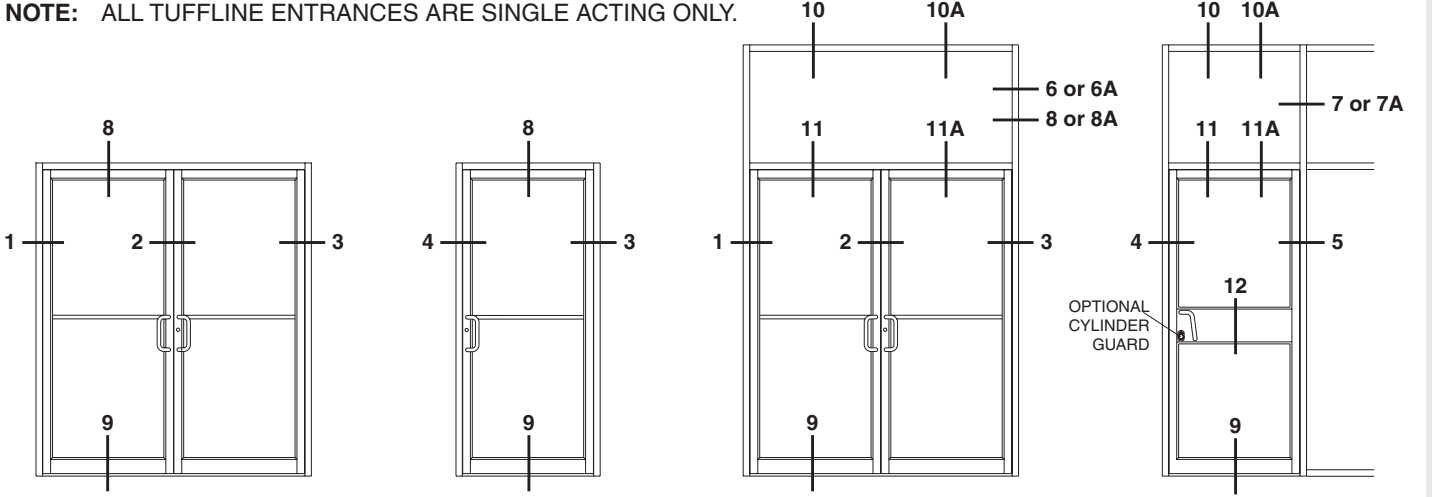


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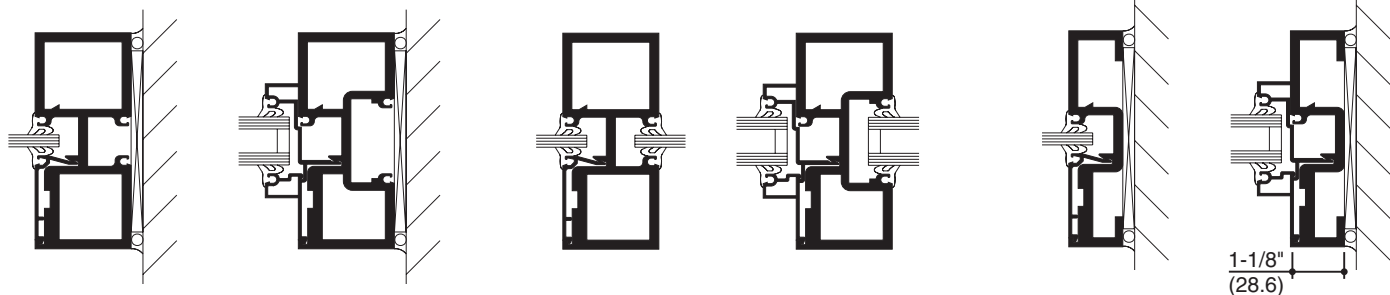
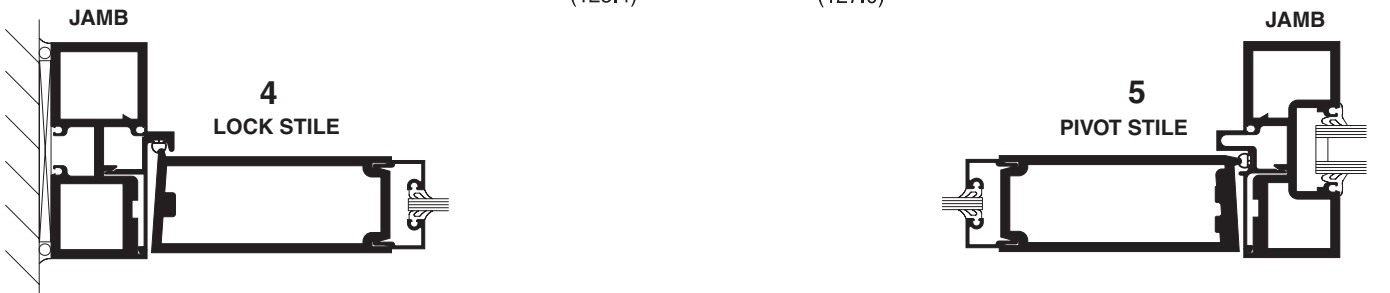
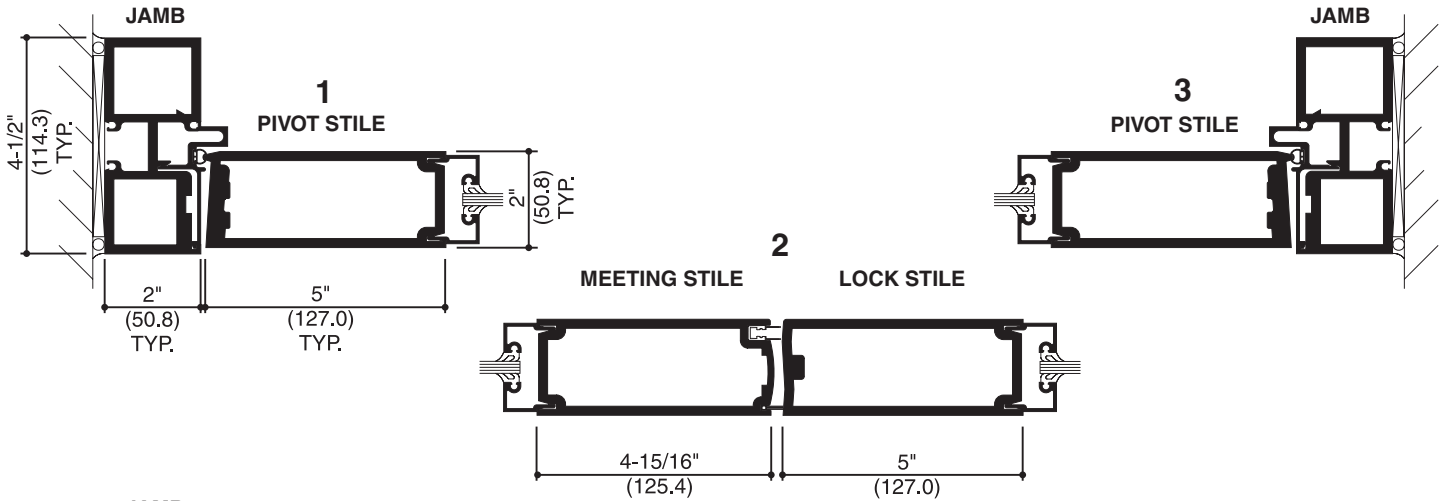
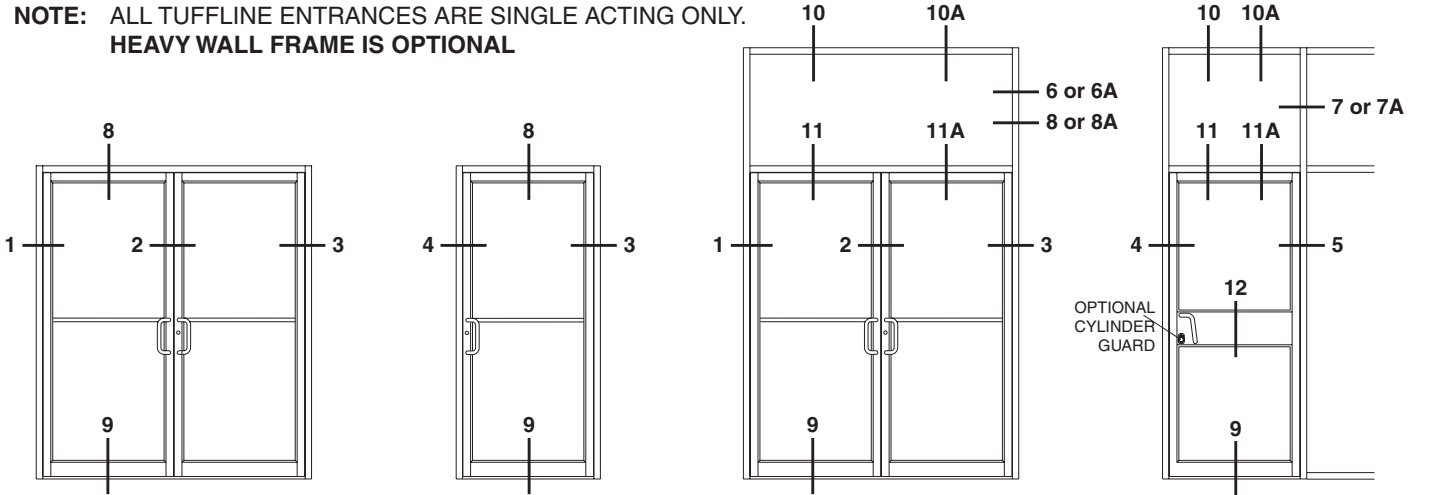
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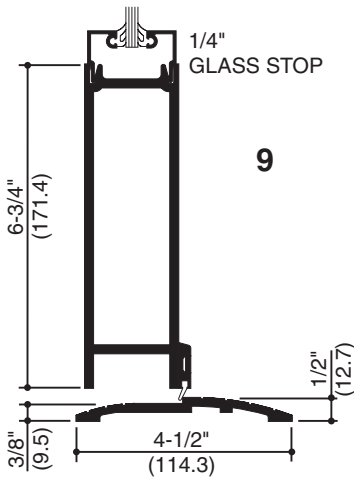
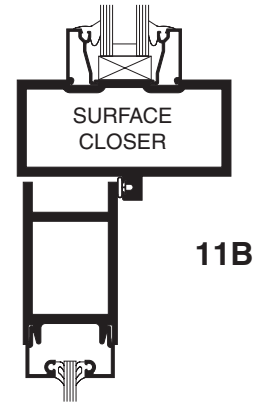
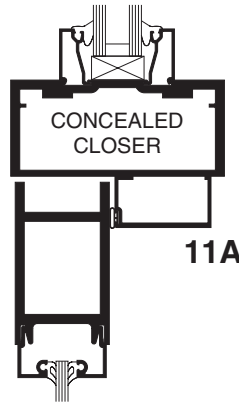
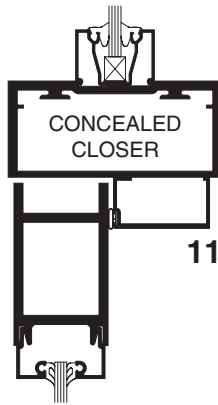
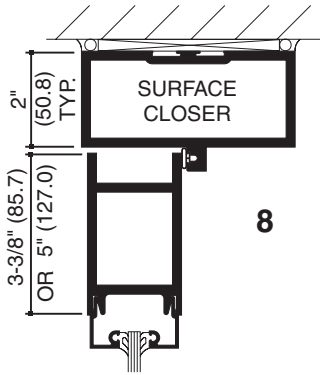
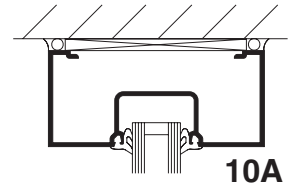
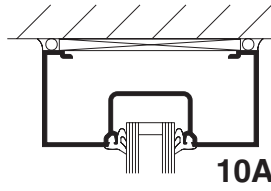
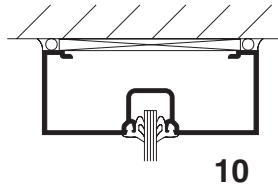
6 TRANSOM AREA 6A TRANSOM AREA 7 TRANSOM AREA 7A TRANSOM AREA 8 ALTERNATE HALF JAMBS 8A ALTERNATE HALF JAMBS

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SCALE 3" = 1' - 0"

CAD DETAILS:
SEE TRIFAB VG 450
AND TRIFAB VG 451



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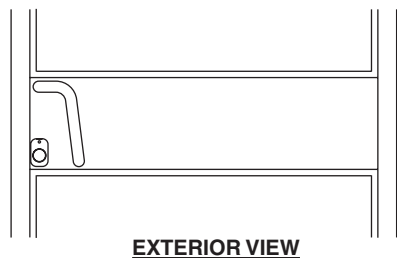
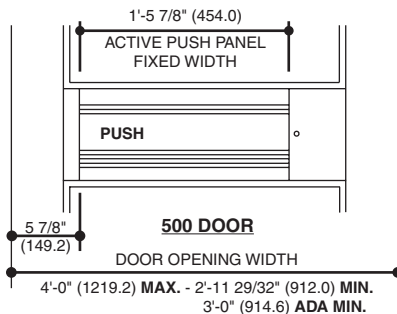
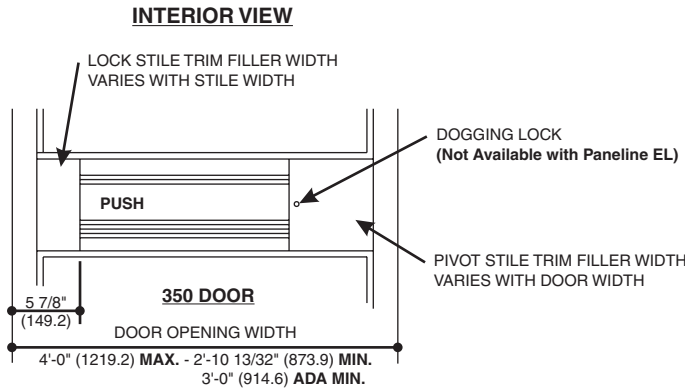
PANELINE® EXIT DEVICE

The Paneline® concealed rod exit device for 350 and 500 Tuffline doors will accommodate variations in stile width and door width as shown in the following illustrations.

The Optional Paneline® EL device is designed for electrified access control and is compatible with most key pad and card reader systems.

See **Hardware Section** for complete description of Paneline hardware, including finish of units.

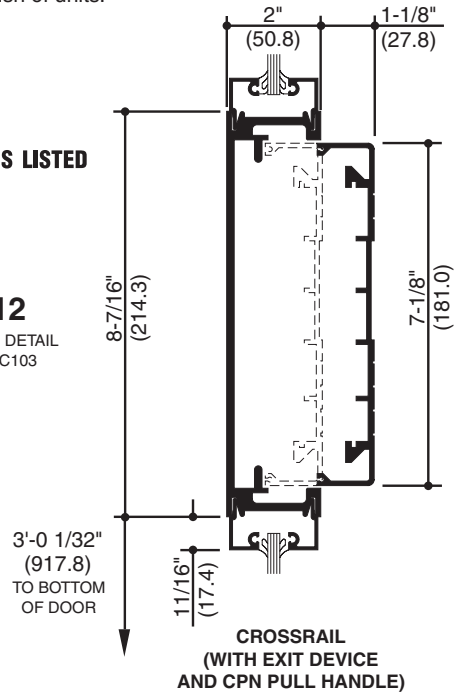
Paneline® uses mortise cylinder in lieu of the normal rim-type. Dummy Paneline units are not for use with any type of lock.



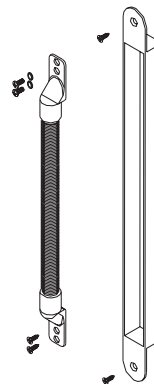
"CPN" PULL AND OPTIONAL CYLINDER GUARD SHOWN



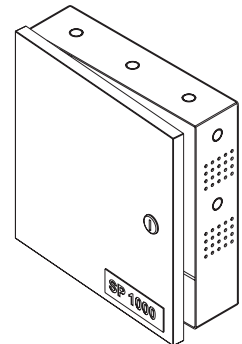
12
 CAD DETAIL
 EC103



PANELINE® EL COMPONENTS



ELECTRIC POWER TRANSFER (EPT)



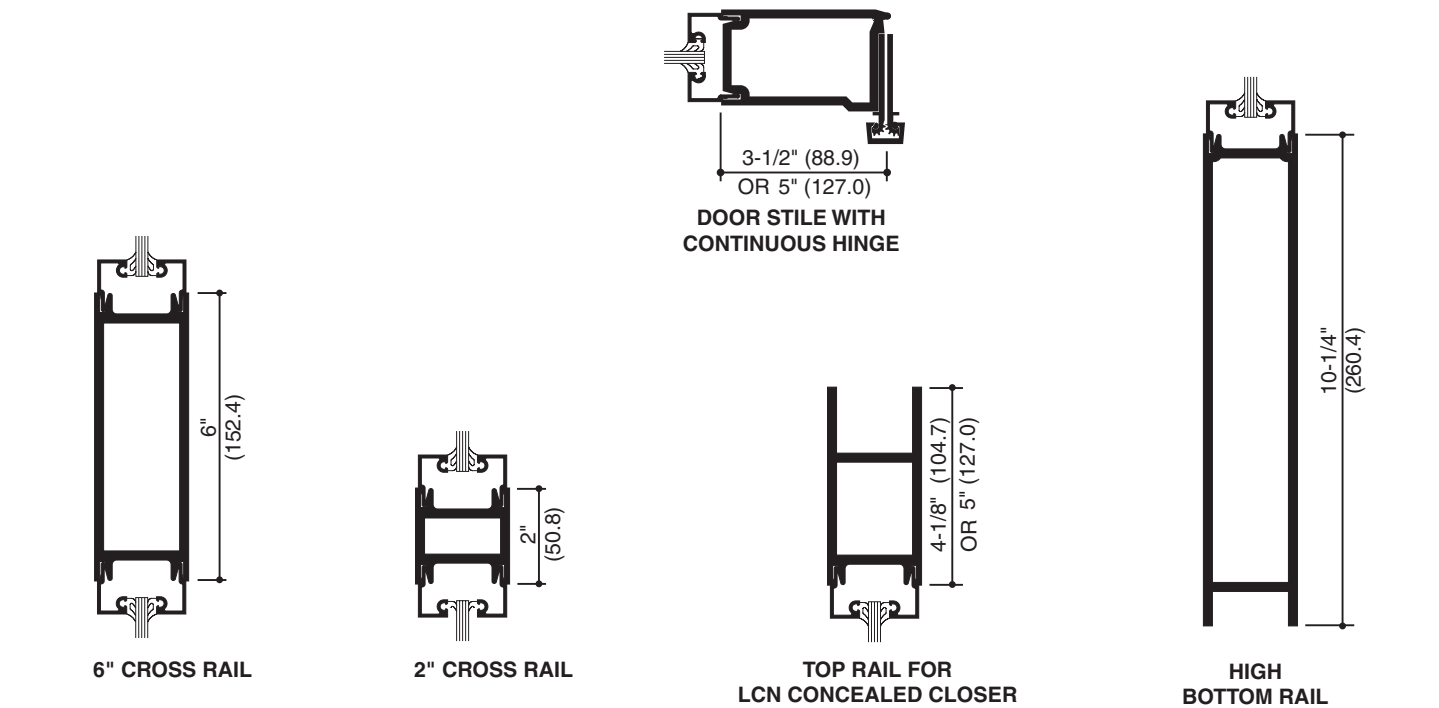
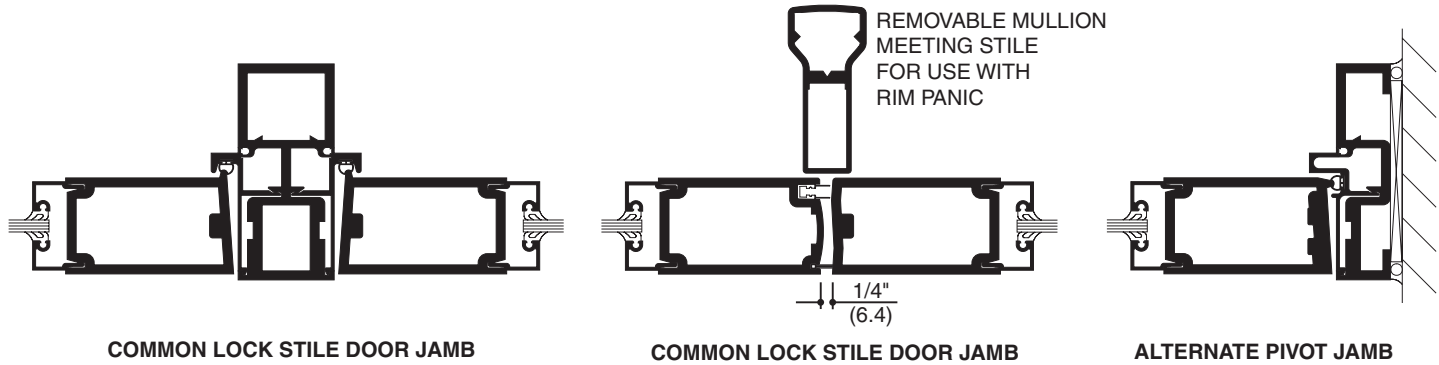
SP 1000 POWER SUPPLY

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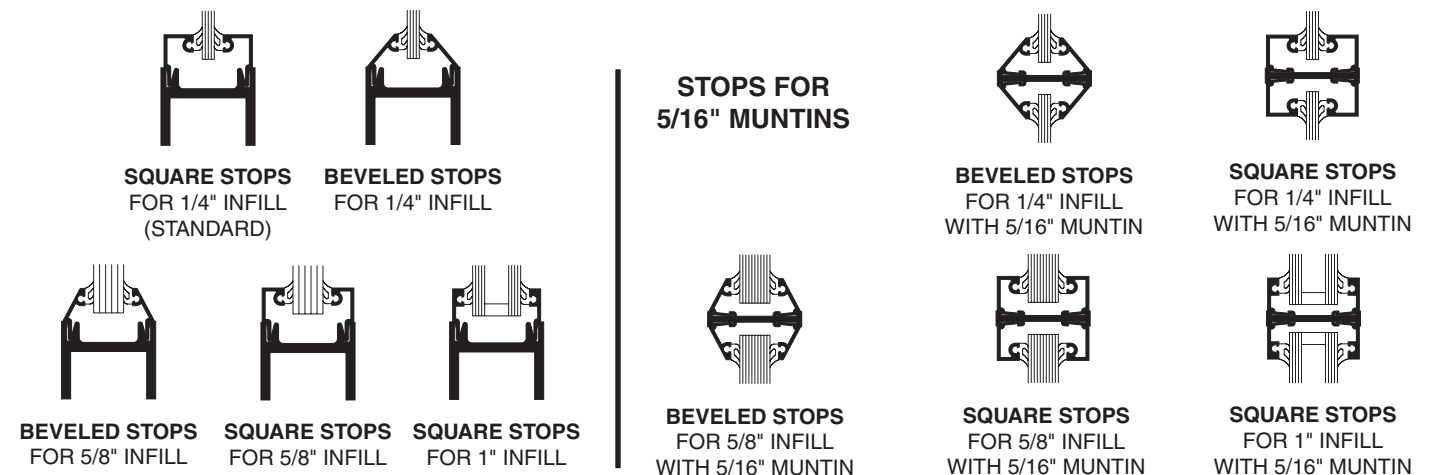
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GLAZING TYPES



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HINGES & PIVOTS

BUTT HINGES 1-1/2 pair heavy duty 5" x 4-1/2" ball bearing butt hinges per leaf.

OFFSET PIVOTS Kawneer engineered heavy duty top, bottom and intermediate pivots (anodized finish only). Intermediate pivot is standard and is load bearing and adjustable.

OPTIONAL HINGES Continuous Hinge.

NOTE: Intermediate hinges and pivots are standard on all 350/500 Tuffline Entrances, no substitution of outside hinge hardware by others.

DOOR CLOSERS

CONCEALED OVERHEAD Standard COC with single acting offset arm or LCN 2030 single acting.

NOTE: For high traffic & high wind applications, a supplemental door stop is recommended.

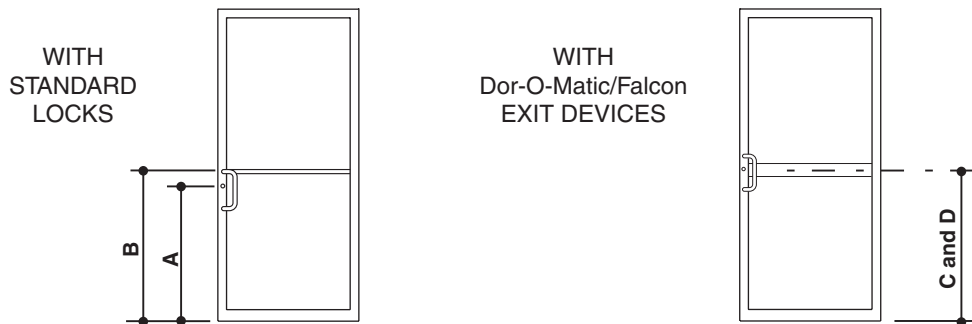
SURFACE MOUNTED Norton 1601 adjustable or 1601 BF adjustable, LCN 1260 adjustable or LCN 4040 Super Smoothie.

PUSH - PULLS

- Architects Classic style CO-9 Pull and CP-II Push Bar
- Architects Classic style CO-9 Pull and CP Push Bar
- 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
- Architects Classic style CO-9 Pull with Exit Devices
- Architects Classic style CPN Pull with Paneline® and Paneline® EL Exit Devices

LOCKS AND EXIT DEVICES

- Adams Rite 1850 Lock, Adams Rite 3 Point Lock and Adams Rite 1850-050 (single doors only)
- Kawneer Standard Flush Bolts
- Kawneer Controller®
- Cylinder Guard
- Paneline® Concealed Rod Exit Device, Paneline® EL Concealed Rod Exit Device
- Concealed Rod Exit Device
- Dor-o-matic/Falcon 1490, 1690, EL 1690 and 1990 Concealed Rod Exit Device
- Dor-o-matic/Falcon 1590, 1790, EL 1790 and 2090 Rim Exit Device



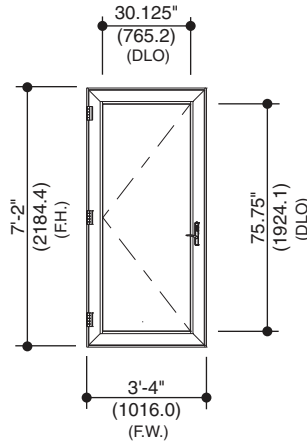
Dimension	A	B	C	D
HARDWARE ITEM	DEADLOCK/LATCH	PUSH BAR/PULL	1690 TOUCH BAR	1790 TOUCH BAR
MEASURED TO	☉ OF CYLINDER	☉ OF PUSH BAR	☉ OF TOUCH BAR	☉ OF TOUCH BAR
HEIGHT	40-13/16" (1036.6)	44-5/16" (1125.5)	40-5/8" (1031.9)	41-5/16" (1049.4)

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Project Specific U-Factor Example Calculation



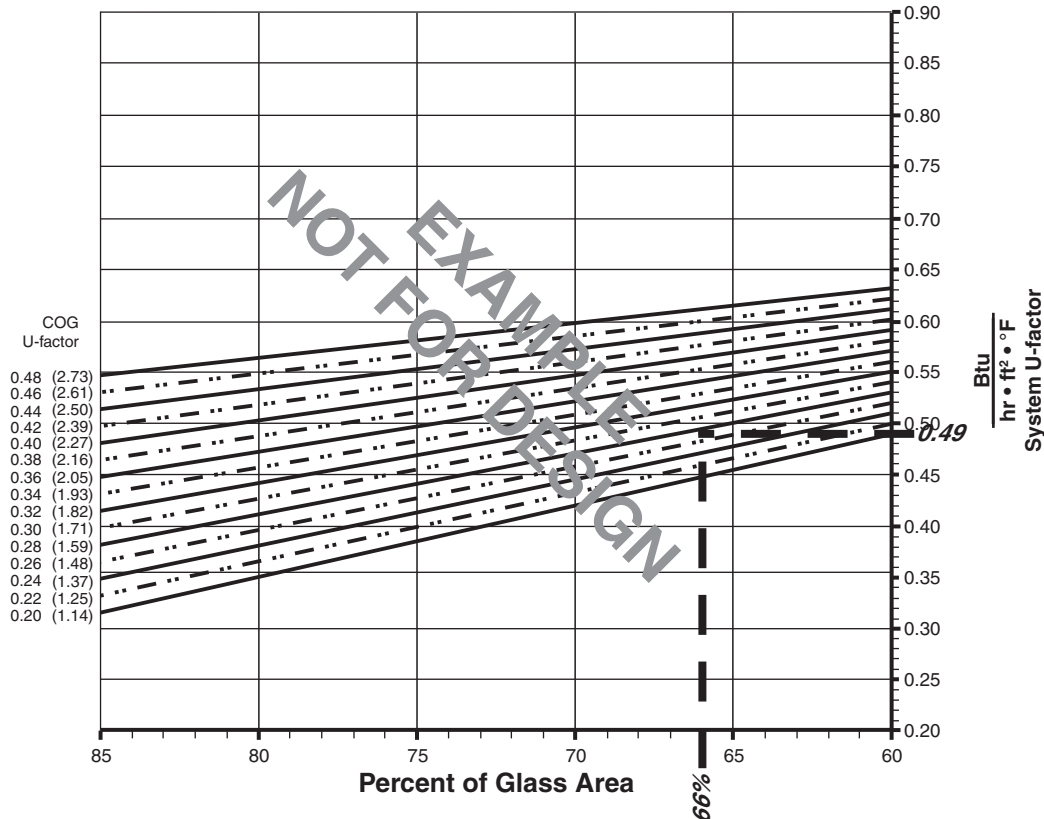
Example Glass U-Factor = 0.28 Btu/hr • ft² • °F

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



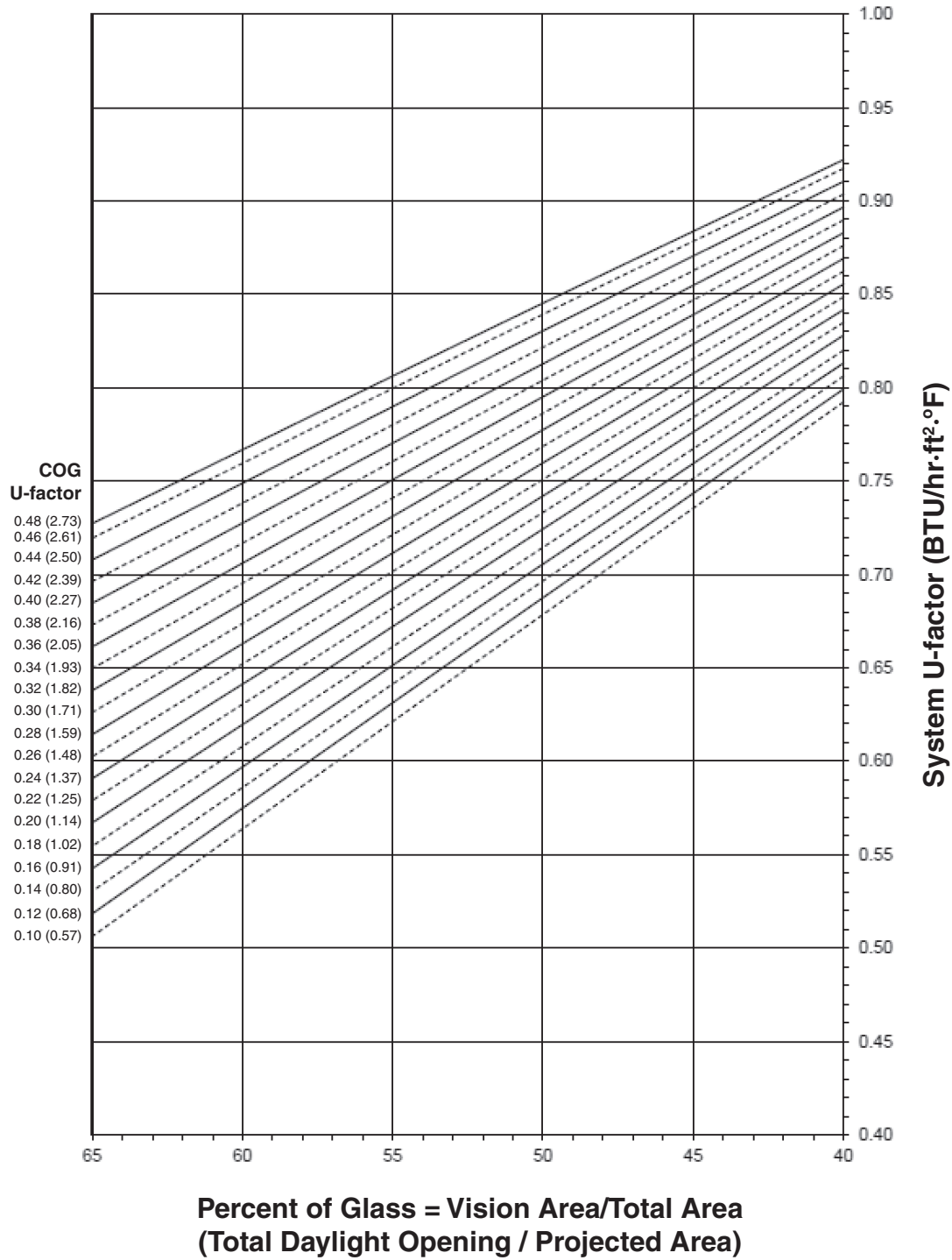
Based on 66% glass and center of glass (COG) U-factor of 0.28
 System U-factor is equal to 0.49 Btu/hr • ft² • °F

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350 (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.

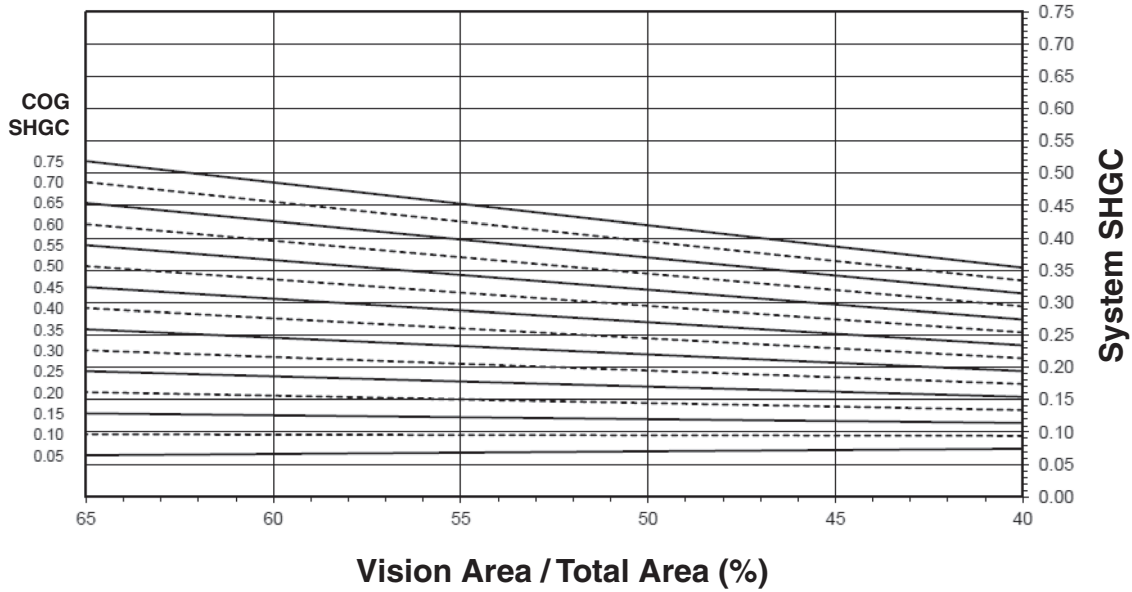
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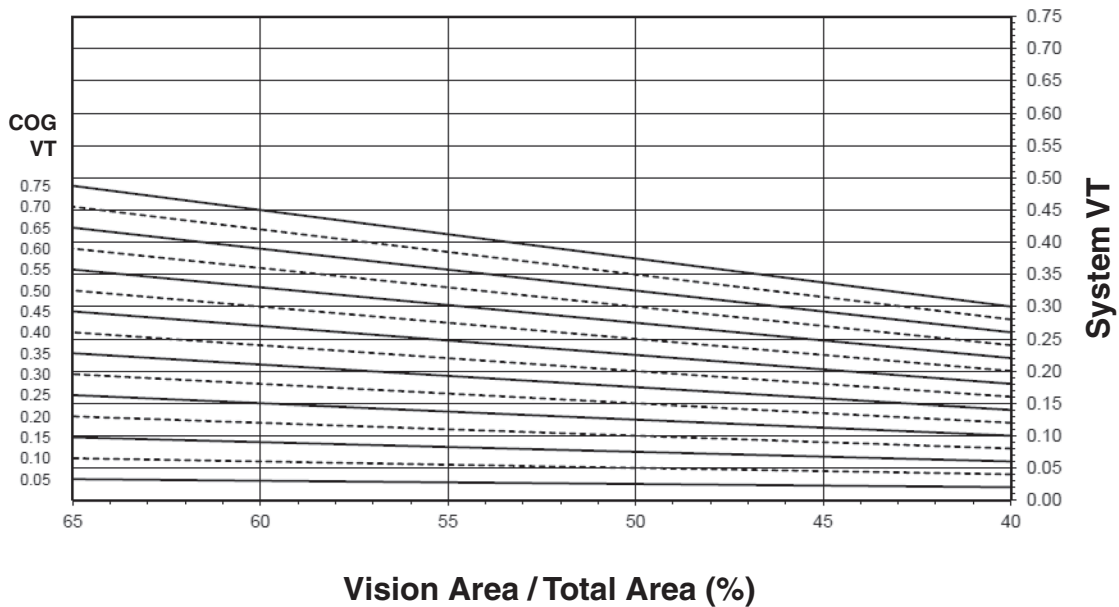
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350 (SINGLE DOOR)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

350 (SINGLE DOOR)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.83
0.46	0.82
0.44	0.81
0.42	0.81
0.40	0.80
0.38	0.79
0.36	0.78
0.34	0.77
0.32	0.76
0.30	0.75
0.28	0.74
0.26	0.73
0.24	0.72
0.22	0.71
0.20	0.70
0.18	0.69
0.16	0.68
0.14	0.68
0.12	0.67
0.10	0.66

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 960mm wide by 2090mm high (37-3/4" by 82-3/8").

SHGC Matrix ²

Visible Transmittance ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.43
0.70	0.41
0.65	0.38
0.60	0.36
0.55	0.33
0.50	0.30
0.45	0.28
0.40	0.25
0.35	0.23
0.30	0.20
0.25	0.17
0.20	0.15
0.15	0.12
0.10	0.10
0.05	0.07

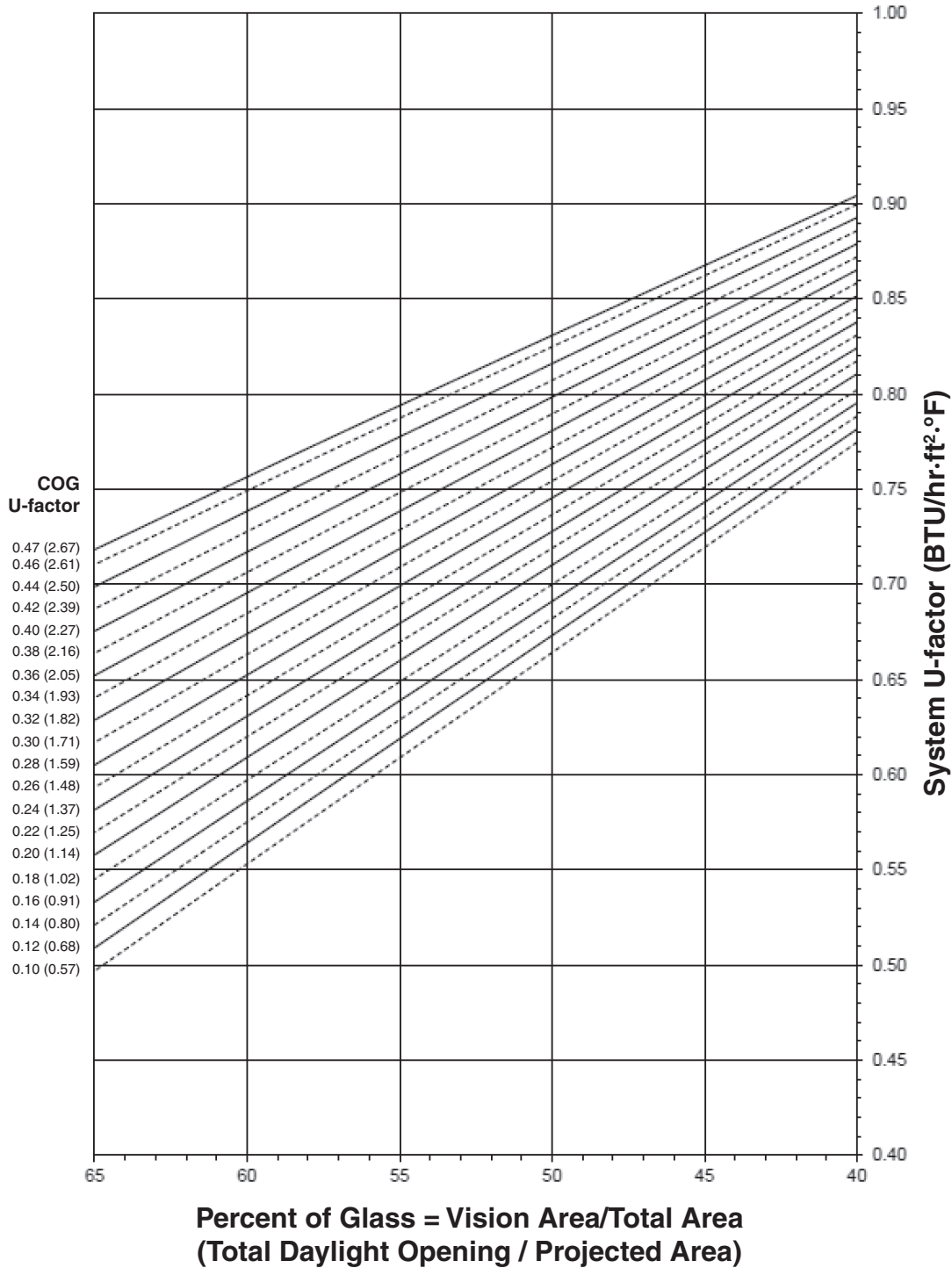
Glass VT ³	Overall VT ⁴
0.75	0.39
0.70	0.36
0.65	0.34
0.60	0.31
0.55	0.29
0.50	0.26
0.45	0.23
0.40	0.21
0.35	0.18
0.30	0.16
0.25	0.13
0.20	0.10
0.15	0.08
0.10	0.05
0.05	0.03

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350 (PAIR OF DOORS)

System U-factor vs Percent of Glass Area



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

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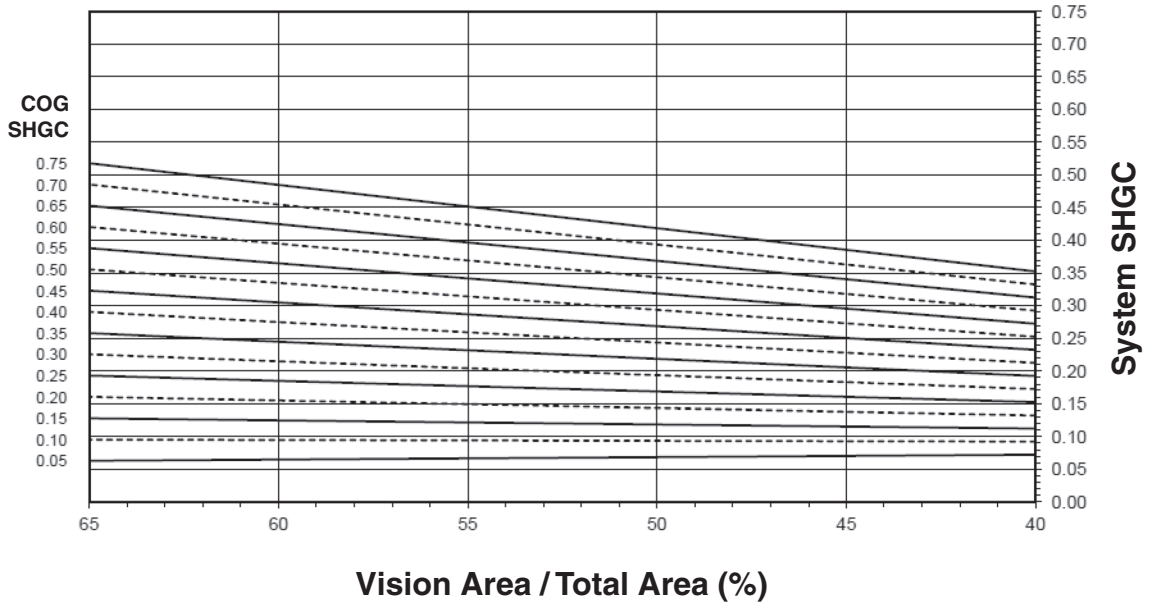
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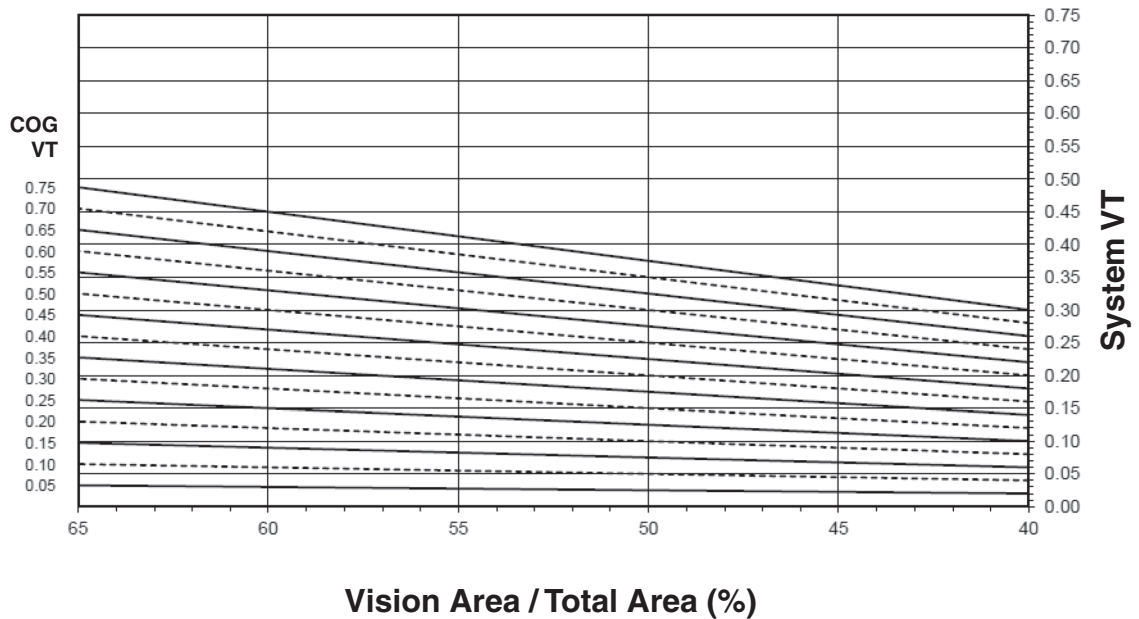
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350 (PAIR OF DOORS)

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
0.47	0.79
0.46	0.78
0.44	0.77
0.42	0.76
0.40	0.75
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	0.67
0.22	0.66
0.20	0.65
0.18	0.64
0.16	0.63
0.14	0.62
0.12	0.61
0.10	0.60

350 (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").

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.46
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.35
0.50	0.32
0.45	0.29
0.40	0.26
0.35	0.23
0.30	0.21
0.25	0.18
0.20	0.15
0.15	0.12
0.10	0.09
0.05	0.07

Visible Transmittance²

Glass VT ³	Overall VT 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	0.25
0.40	0.22
0.35	0.20
0.30	0.17
0.25	0.14
0.20	0.11
0.15	0.08
0.10	0.06
0.05	0.03

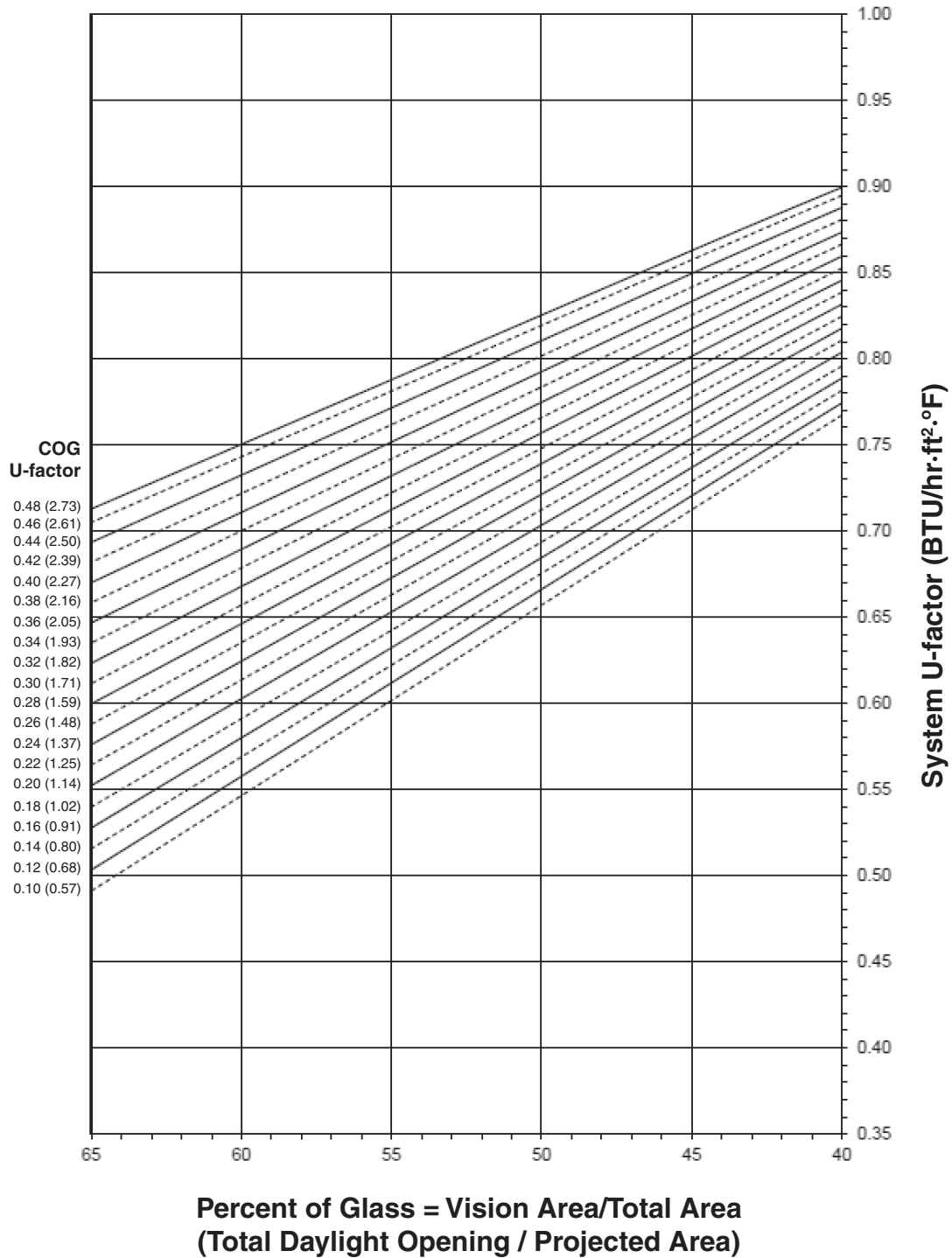
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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

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500 (SINGLE DOOR)

System U-factor vs Percent of Glass Area



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

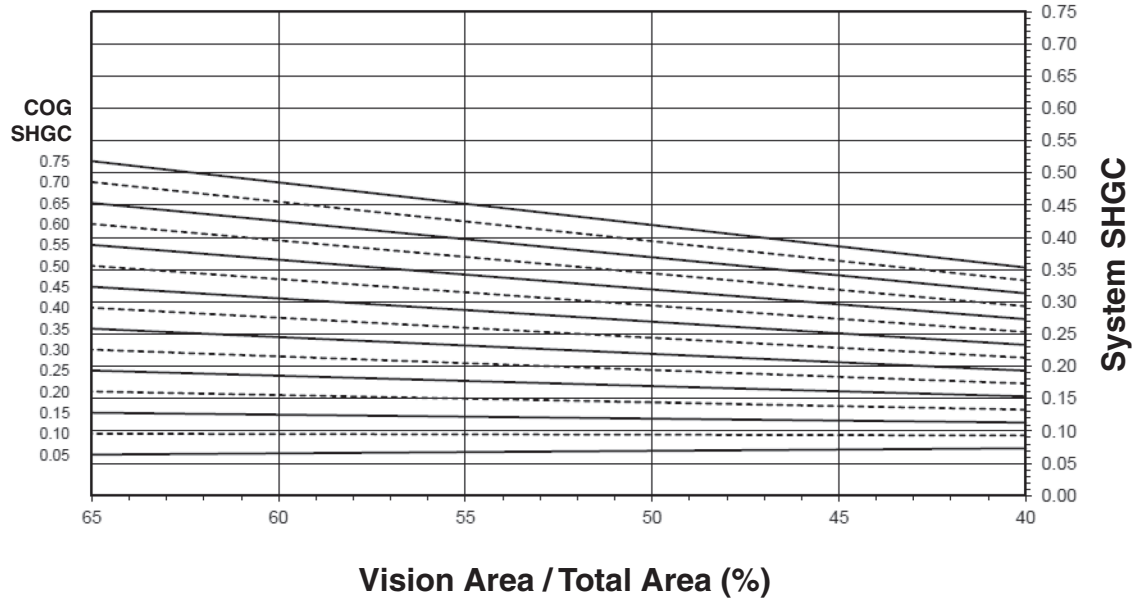
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.

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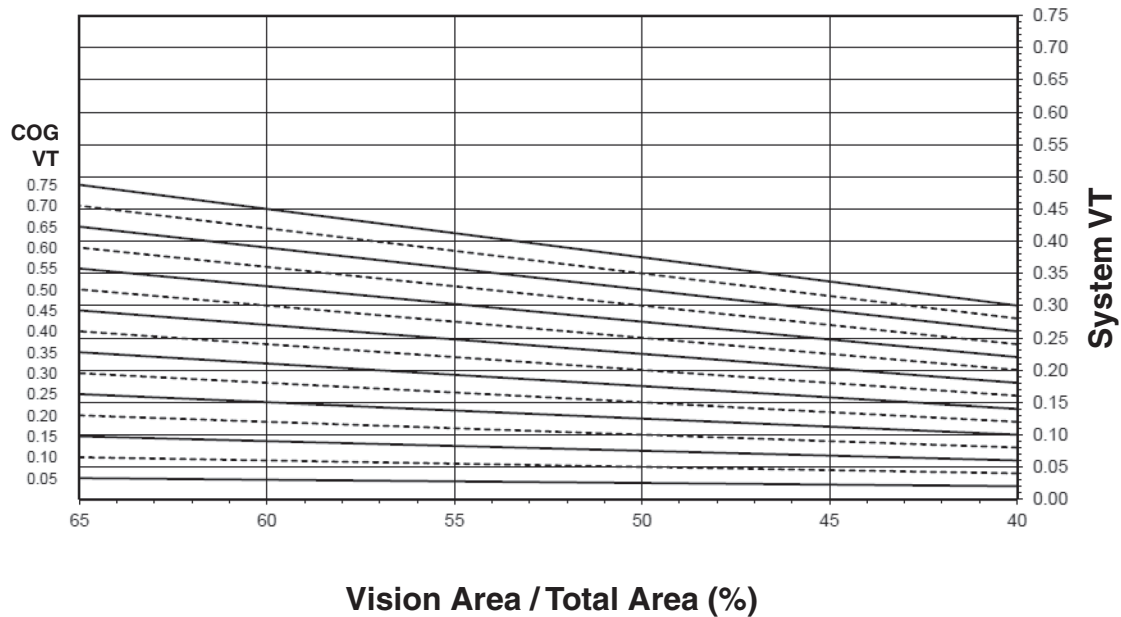
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500 (SINGLE DOOR)

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

500 (SINGLE DOOR)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.87
0.46	0.86
0.44	0.85
0.42	0.84
0.40	0.84
0.38	0.83
0.36	0.82
0.34	0.81
0.32	0.81
0.30	0.80
0.28	0.79
0.26	0.78
0.24	0.77
0.22	0.77
0.20	0.76
0.18	0.75
0.16	0.74
0.14	0.73
0.12	0.73
0.10	0.72

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 960mm wide by 2090mm high (37-3/4" by 82-3/8").

SHGC Matrix ²

Visible Transmittance ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.38
0.70	0.36
0.65	0.34
0.60	0.32
0.55	0.29
0.50	0.27
0.45	0.25
0.40	0.23
0.35	0.21
0.30	0.18
0.25	0.16
0.20	0.14
0.15	0.12
0.10	0.09
0.05	0.07

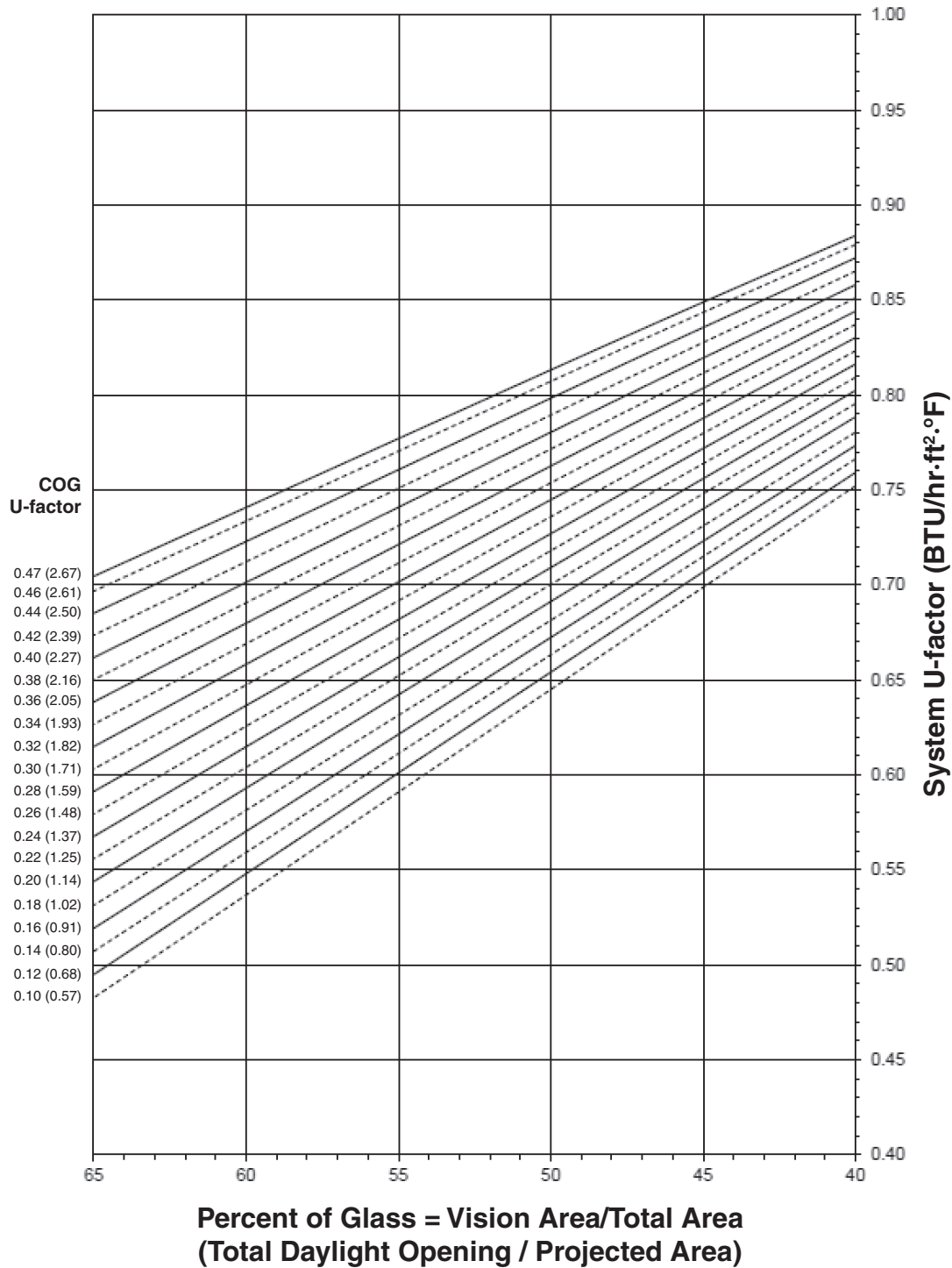
Glass VT ³	Overall VT ⁴
0.75	0.33
0.70	0.31
0.65	0.29
0.60	0.27
0.55	0.25
0.50	0.22
0.45	0.20
0.40	0.18
0.35	0.16
0.30	0.13
0.25	0.11
0.20	0.09
0.15	0.07
0.10	0.04
0.05	0.02

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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500 (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.

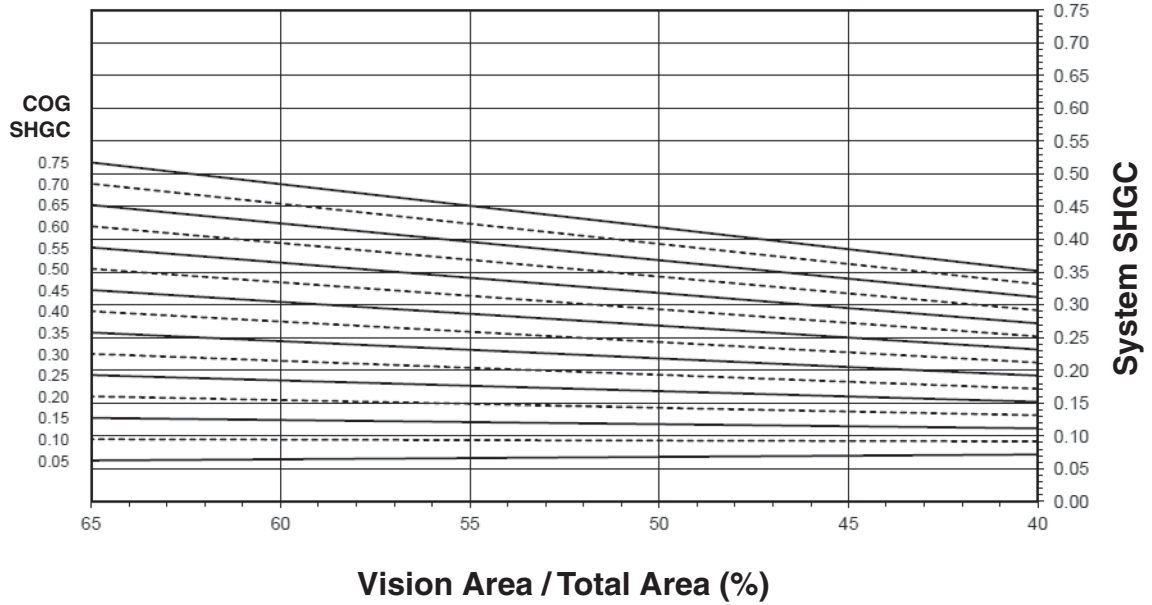
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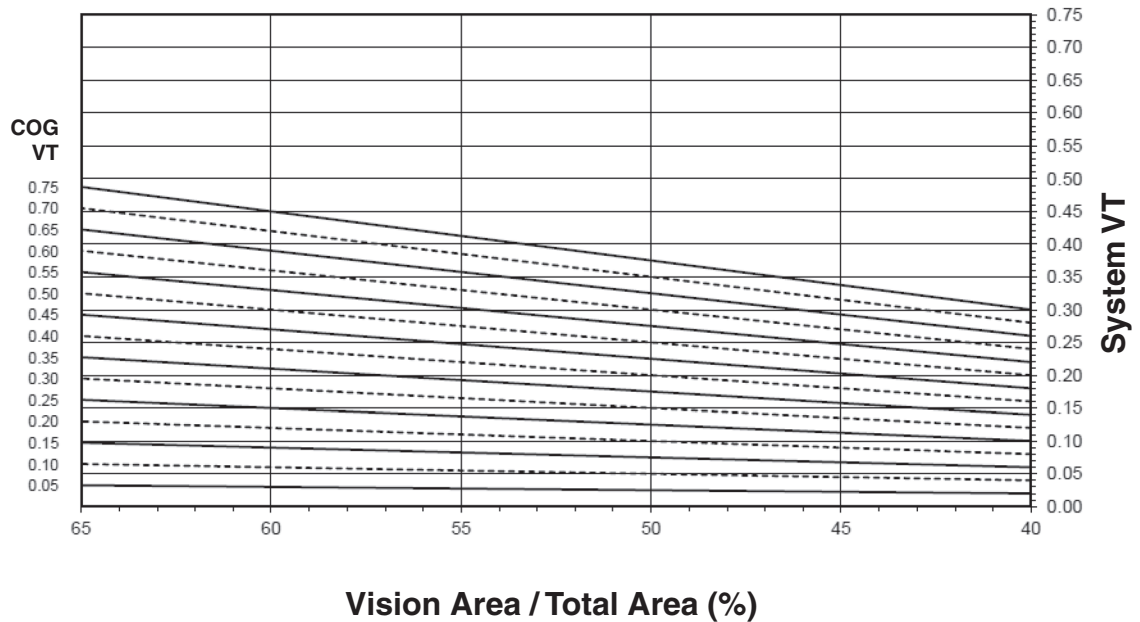
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500 (PAIR OF DOORS)

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



System Visible Transmittance (VT) vs Percent of Vision Area



Laws and building and safety codes governing the design and use of 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
0.47	0.82
0.46	0.82
0.44	0.81
0.42	0.80
0.40	0.79
0.38	0.78
0.36	0.77
0.34	0.77
0.32	0.76
0.30	0.75
0.28	0.74
0.26	0.73
0.24	0.72
0.22	0.71
0.20	0.70
0.18	0.70
0.16	0.69
0.14	0.68
0.12	0.67
0.10	0.66

500 (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").

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.41
0.70	0.38
0.65	0.36
0.60	0.34
0.55	0.31
0.50	0.29
0.45	0.26
0.40	0.24
0.35	0.21
0.30	0.19
0.25	0.17
0.20	0.14
0.15	0.12
0.10	0.09
0.05	0.07

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

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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