FEATURES EC 97911-283 ✓ Hurricane Resistant Product Blast Mitigation Product

Features 1 4 1

- Flush appearance with face sheet of aluminum or fiberglass reinforced polyester (FRP) that is captured on four sides by integral extruded reglets
- Door is 1-3/4" (44.5 mm) Deep
- Dual moment welded corner construction
- Internal 500 wide stile frame has 5" (127 mm) vertical stiles, 5" (127 mm) top rail and 5" (127 mm) bottom rail
- 5 lb/ft³ urethane foam core
- Single acting
- Vision lite infills of 1/4" (6.4 mm), 1" (25.4 mm) or 1" (25.4 mm) impact 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
- Aluminum panels with two texture choices, smooth and embossed
- FRP Pebble texture panel finishes in four standard choices
- Permanodic[®] anodized finishes option
- · Painted finishes in standard and custom choices

Optional Features

- Paneline® exit device or Paneline® MEL exit device
- Large Missile, Small Missile and Hurricane Impact tested
- · Blast Mitigation tested

Product Applications

• Flushline® is designed for high traffic applications such as schools, universities as well as highly corrosive environments such as coastal applications, manufacturing facilities and waste water treatment plants

> For specific product applications, consult your Kawneer representative.



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EC 97911-283

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Flushline® Entrances

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



FEBRUARY, 2023

FINISH CHART

Flushline® Entrances

FACE SHEET TYPE

AND FINISH

Beige Dark Bronze Light Gray White

ALUMINUM

FRP - PEBBLE

EC 97911-283

PAINTED TO

MATCH

NOTE:

The finish chart depicts recommended color combinations of face sheet and door sub-frame. Other combinations are available.

#17 CLEAR

ANODIZED

FINISH OF DOOR SUB-FRAME

#40 BRONZE

ANODIZED

SELECT ANODIZED OR PAINTED FINISH AS

REQUIRED



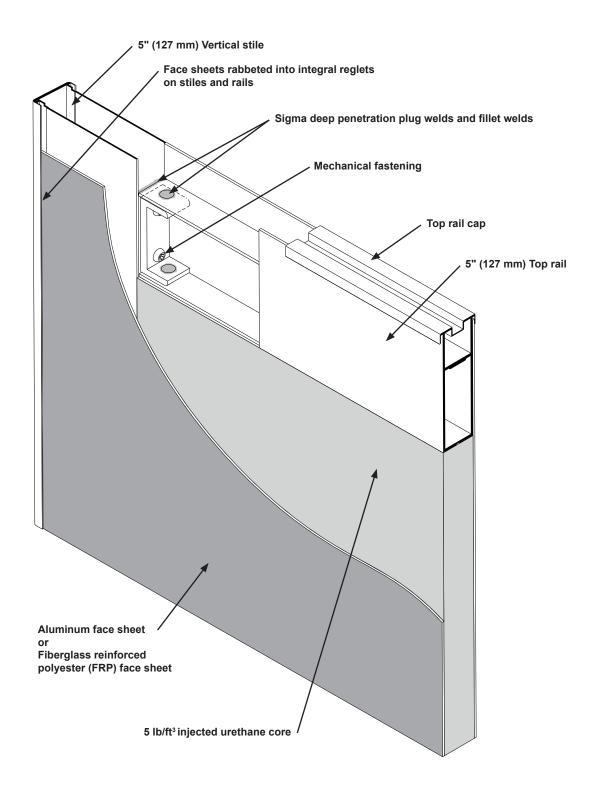
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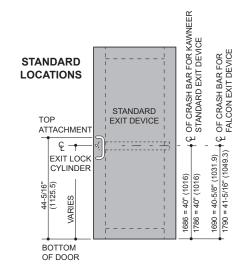
PICTORIAL VIEW

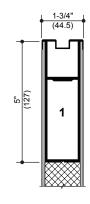
DOOR CONSTRUCTION

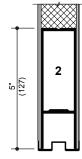
The chassis for Kawneer's Flushline® Series door utilizes Kawneer's dual moment welded corner construction. Face sheets interlock with the aluminum stiles and rails to create a hollow cavity which is then injected with urethane foam. The exceptional characteristics of urethane foam assures a strong chemical bond with all internal aluminum surfaces and a tough, dimensionally stable core. Doors are constructed with 5" (127 mm) wide stiles and rails internally to support surface applied and mortised hardware. The pebble texture F.R.P. (Fiberglass Reinforced Polyester) face sheet provides high impact resistance and architectural aesthetic qualities.

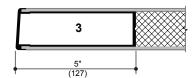










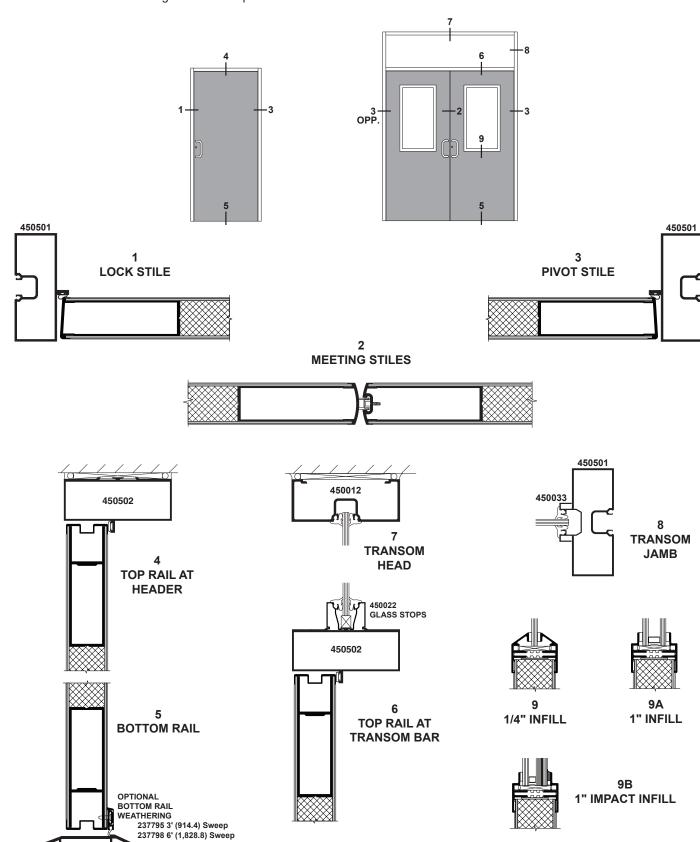


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CONSTRUCTION DETAILS EC 97911-283

Additional information and CAD details are available at www.kawneer.com

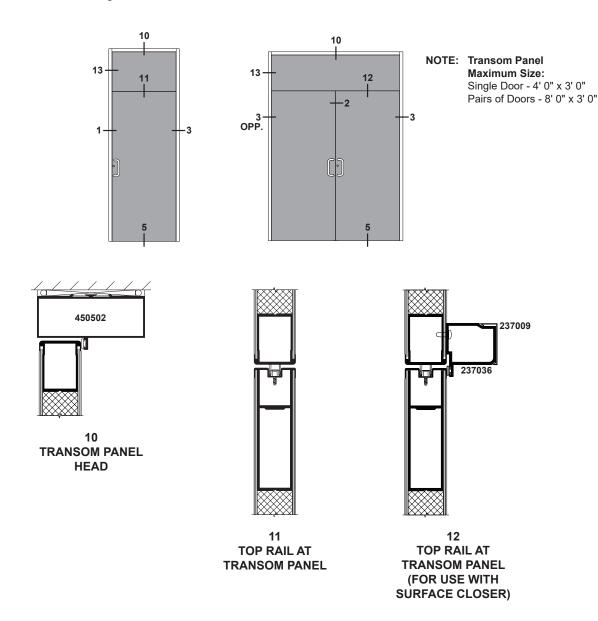
NOTE: Details show Trifab® VersaGlaze® 450 (Center) framing. Flushline® doors may be used with other Kawneer framing. Refer to other framing sections for specific details.

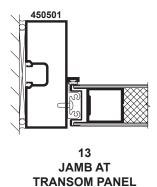


Flushline® Entrances

Additional information and CAD details are available at www.kawneer.com

NOTE: Details show Trifab® VersaGlaze® 450 (Center) framing. Flushline® doors may be used with other Kawneer framing. Consult individual framing sections for details.







EC 97911-283

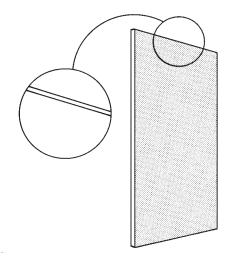
FACE SHEET OPTIONS

Flushline® Entrances

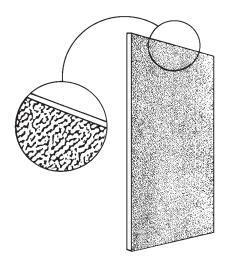
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ALUMINUM DOOR FACE SHEETS

FOR EXTERIOR AND INTERIOR SURFACES



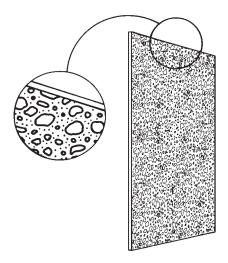
Smooth (Unpatterned) **Aluminum Sheet** 0.090 (2.3) Thick



Embossed Aluminum Sheet 0.090 (2.3) Thick

FRP DOOR FACE SHEETS

FOR EXTERIOR AND INTERIOR SURFACES



F.R.P. (Fiberglass Reinforced Polyester) 0.090 (2.3) Thick **Pebble Texture** Available Finishes: Beige, Dark Bronze, Light Gray and White



Flushline® Entrances

STANDARD CONFIGURATIONS SHOWN

Consult your Kawneer representative for vision lites other than configurations shown.

ALUMINUM FRAMED VISION LITES

1/4" GLASS, 1" INSULATING GLASS or 1" IMPACT GLASS



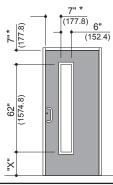


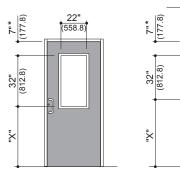


i

1" IMPACT INFILL

7"*	12" (304.8)
(304.8)	
"X")





7"* (177.8)	(177.8) 6" (152.4)
32" (812.8)	
"X"	J

		<u> </u>		•	•
Vision Lite	Width	12" (304.8)	6" (152.4)	22" (558.8)	6" (152.4)
Size	Height	12" (304.8)	62" (1,574.8)	32" (812.8)	32" (812.8)
Placement in Door		Centered	Lock Side	Centered	Lock Side
Minimum Edge Dimension			7" (177.8) Top ar	nd Sides of Door	
		12" (304.8) Bottom of Door			

^{*} Edge dimensions shown are minimum allowed due to manufacturing constraints.
Please specify dimension "X" [Bottom of Door to Bottom of Vision Lite. Minimum dimension 12" (304.8)].

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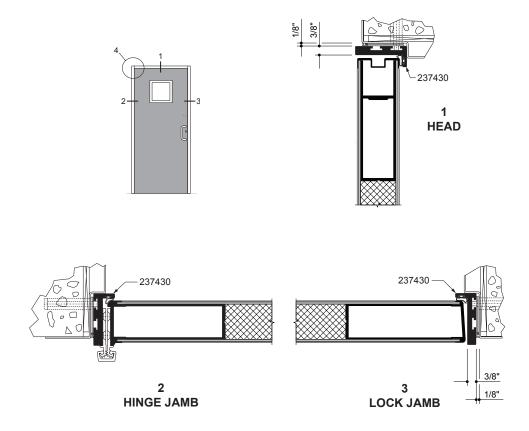


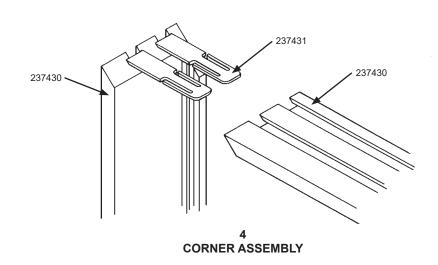
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FRAME ADAPTER

Flushline® Entrances

The Flushline® Frame Adapter is an economical answer for remodel/retrofit projects where new entrance doors are being installed into existing frames. The Flushline® Frame Adapter utilizes polymeric bulb weathering for a resistive weatherseal on three sides of the door. When the frame adapter is used in conjuction with a continuous hinge the need for existing frame tear-out and attempting to align hardware on a new door with an existing frame is eliminated.

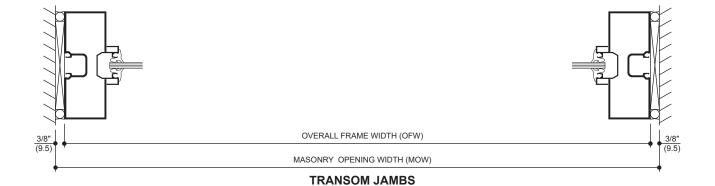


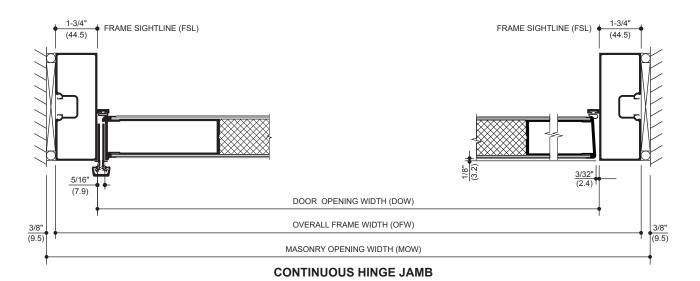




3/8"

SINGLE ACTING DOORS





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3' 6"

6' 0"

N/A

WITH AND WITHOUT TRANSOM

EC 97911-283

ENTRANCE OFFERINGS

Flushline® Entrances

N/A

N/A

N/A

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STANDARD SIZES (TRIFAB® 400 & TRIFAB® VG 450 CENTER FRAMES) WITH AND WITHOUT TRANSOM **Door Opening Dimension (DOW) Overall Frame Dimension (OFW)** Masonry Opening Dimension (MOW) 3' 0" (914)3' 3-1/2" (1,003)3' 4-1/4" (1,022)3'6" 3' 9-1/2" 3' 10-1/4" (1,067)(1,156)(1,175)6' 0" 6' 3-3/4" 6' 4-1/4" (1,829)(1,937)(1,924)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). **STANDARD SIZES** (TRIFAB® VG 451 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" 3' 10" 3' 10-3/4" (1,067)(1,168)(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). STANDARD SIZES (FLUSHLINE SUB DOOR FRAME ADAPTER (Use with continuous geared hinge only) WITH AND WITHOUT TRANSOM **Door Opening Dimension (DOW)** Overall Frame Dimension (OFW) Masonry Opening Dimension (MOW) 3' 0" (914)3' 3/4" (933)N/A

(1,086)

(1,848)

Note: For hurricane impact framing refer to test reports and product approvals for available frame options.

(1,067)

(1,829)

3' 6-3/4"

Note: Dimensions shown above are not applicable with A1 Price Book standard stock door frame height with transom at 10' 3-1/2" (3,137).

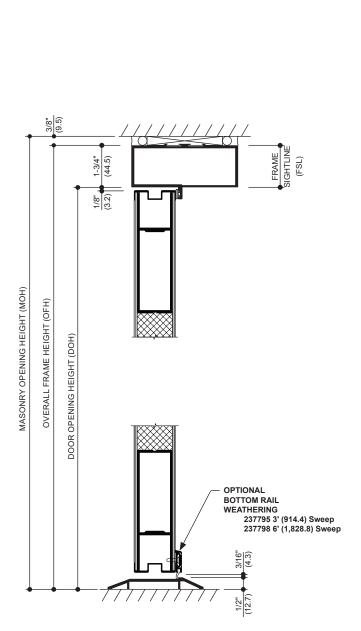
6' 3/4"

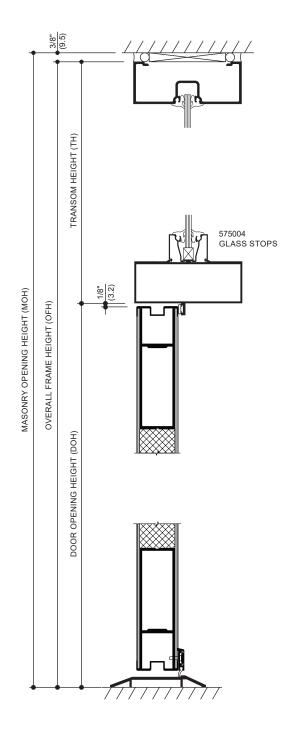
N/A



Flushline® Entrances

Additional information and CAD details are available at www.kawneer.com







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Flushline® Entrances

ENTRANCE OFFERINGS

STANDARD SIZES (TRIFAB® 400 & TRIFAB® VG 450 CENTER FRAMES)

Door Opening	g Dimension (DOH)	Overall Frame [Dimension (OFH)	Masonry Opening	Dimension (MOH
7' 0"	(2,134)	7' 1-3/4"	(2,178)	7' 2-1/8"	(2,188)
7' 0"	(2,134)	7' 1-3/4"	(2,178)	7' 2-1/8"	(2,188)
7' 0"	(2,134)	7' 1-3/4"	(2,178)	7' 2-1/8"	(2,188)
VITHOUT TRANSO	M				
OFH	= DOH + FSL				
MOH	I = OFH + 3/8"				
WITH TRANSOM PA	NEL				
OFH	= DOH +TH				
MOH	I = OFH + 3/8"				

STANDARD SIZES	(TRIFAB® VG 451	CENTER FRAMES)

Door Opening Dimension (DOH)		Overall Frame	e Dimension (OFH)	Masonry Opening	Masonry Opening Dimension (MOH)	
7' 0"	(2,134)	7' 2"	(2,184)	7' 2-3/8"	(2,194)	
7' 0"	(2,134)	7' 2"	(2,184)	7' 2-3/8"	(2,194)	
7' 0"	(2,134)	7' 2"	(2,184)	7' 2-3/8"	(2,194)	

WITHOUT TRANSOM

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

WITH TRANSOM PANEL

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).

STANDARD SIZES (FLUSHLINE SUB DOOR FRAME ADAPTER (Use with continuous geared hinge only)

WITHOUT TRANSOM

Door Opening Dimension (DOH)		Overall Frame	Overall Frame Dimension (OFH) Masonry Opening Dim		imension (MOH)	
7' 0"	(2,134)	7' 3/8"	(2,143)	N/A		
7' 0"	(2,134)	7' 3/8"	(2,143)	N/A		
7' 0"	(2,134)	7' 3/8"	(2,143)	N/A		
WITH TRANSOM						
N/A		N/A		N/A		
Note: Dimensions sho	own above are not applicat	ole with A1 Price Book s	standard stock door frame	e height with transom at 10' 3-1/2" (3,137).		

Note: For hurricane impact framing refer to test reports and product approvals for available frame options.



LOCKING OPTIONS	MAXIMUM DOOR SIZE	MAXIMUM DESIGN PRESSURE	HINGING OPTIONS	GLAZING STOP OPTIONS	GLASS THICKNESS
MS 1850 3-Point Lock (Active leaf) Flushbolts (Inactive leaf)	Single 3' 6" x 7' 6" (1,066.8 x 2,286) Pair 7' 0" x 7' 6" (2,133.6 x 2,286)	± 70 PSF	Offset Pivots Butt Hinges Continuous Hinge	1	1" (25.4)
Kawneer 1686 Concealed Rod Exit Device (MEL option)	Single 3' 6" x 7' 6" (1,066.8 x 2,286) Pair 7' 0" x 7' 6" (2,133.6 x 2,286)	± 70 PSF	Offset Pivots Butt Hinges Continuous Hinge	1	1" (25.4)
Corbin Russwin ED5200S Rim Device	Single 3' 6" x 7' 6" (1,066.8 x 2,286) Pair 7' 0" x 7' 6" (2,133.6 x 2,286)	± 50 PSF (Zone 3 only)	Offset Pivots Butt Hinges Continuous Hinge	1	1" (25.4)
Schlage L9453P Mortise Lock	Single 3' 6" x 7' 6" (1,066.8 x 2,286)	± 75 PSF	Offset Pivots Butt Hinges Continuous Hinge	1	1" (25.4)

Glazing Stop Options:

1 - Structural silicone with 0.090 Kuraray or Eastman PVB inter layer.

ENTRANCE HARDWARE OFFERINGS Blast Mitigation Product

LOCKING OPTIONS	MAXIMUM DOOR SIZE	MAXIMUM BLAST LOADING	HINGING OPTIONS	GLAZING STOP OPTIONS	GLASS THICKNESS
MS 1850 3-Point Lock (Active leaf) Flushbolts (Inactive leaf)	Single 3' 6" x 6' 6" (1,066.8 x 1,981.2) Pair 7' 0" x 6' 6" (2,133.6 x 1,981.2)	Peak Pressure: 4 PSI Impulse: 28 PSI•MSEC	Offset Pivots Butt Hinges	1	1" (25.4)
Schlage L9453P Mortise Lock	Single 3' 6" x 6' 6" (1,066.8 x 1,981.2)	Peak Pressure: 4 PSI Impulse: 28 PSI•MSEC	Offset Pivots Butt Hinges	1	1" (25.4)

Test conditions shown. Other conditions may be supported through calulation.

Glazing Stop Options:

1 - Structural silicone with 0.060 Kuraray or Eastman PVB inter layer.



EC 97911-283

Flushline® Entrances

STANDARD OPTIONAL

	ı		i e	-
Doors	Flushline® doors	prepared for attachment hardware.		
Door Sizes Std.			Any size up to 4'	0" x 8' 0" (1,219 x 2,438).
Glass Stops	Vision Lite for 1/4	!" (6.4) or 3/16" (4.0) infill.	Vision Lite for 1" Vision Lite for 1"	(25.4) infill. (25.4) impact infill.
Door Frames		/4" x 4" (44.5 x 101.6) for single glazing.	Any Kawneer framing system suitable for door frames may be selected, but manufactured per order.	
	Trifab® VG 450 Center - 1-3/4" x 4-1/2" (44.5 x 114.3) for single glazing.		For hurricane impact framing refer to test reports and product approvals for available frame options.	
	Trifab [®] VG 451 (glazing.	Center - 2" x 4-1/2" (50.8 x 114.3) for double	approvais for ave	masio mante optione.
Push-Pulls	Single Acting:	Architects Classic Hardware CO-9 Pull and CP-II Push Bar.	Single Acting:	Architects Classic Hardware CO-12 and CP-II push bar.
		Architects Classic Hardware CO-9 Pull and CP 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
				Recessed Pull
Door Closers	Single Acting:	Norton 1601 adjustable or 1601 BF adjustable surface closer with back-check	Single Acting:	LCN 4040 surface closer with or without adjustable hold-open.
		and with or without adjustable hold-open. Standard concealed overhead closer with		LCN 2030 or 5010 concealed overhead closers with or without hold-open.
		single acting offset arm.		LCN 1260 adjustable surface closer.
				Norton 8100 surface closer with a 50% spring power adjustment (for opening forces of less than 8 pounds). Closer is available with standard back-checks and with or without the hold-open feature.
				International single acting concealed overhead closer.
				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) Kawneer continuous gear hinge.		
Intermediate Pivots/Butts	Single Acting:	Rixson M-19 or IVES #7215-INT intermediate offset pivot (or) Kawneer 4-1/2" x 4" (114.3 x 101.6) ball bearing butt hinge with non-removable pin (NRP).		
Power Transfers	Single Acting:	Rixson M-19 EL or IVES #7215-INT 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 Paneline® EL exit devices. For use with Falcon EL 1690 and EL 1790 exit devices.		NP1 Power Sup 1786 MEL exit de	ply: For use with Kawneer 1686 MEL and evices only.
	SP-2000 Power S	upply: For use with Paneline® MEL exit devices.		
Locks - Active Leaf	Adams-Rite MS 1850A deadlock with two 1-5/32" (29.4) diameter 5 pin cylinders.		Adams-Rite #185 Adams-Rite #401 Adams-Rite #408 Adams-Rite #408 Kawneer cylinder Kawneer thumbtu Schlage L9453P Yale 8860 mortisi Yale 5407 knob k	50A-020 short throw deadlock. 50A-050 hookbolt lock. 5 two-point Lock. 55 three-point Lock. 69 exit indicator. 7 guard. urn (in lieu of cylinder). mortise lock. e lock.



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right to change	improvement.
eer reserves the	ssary for product improvement

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when deemed

	STANDARD	OPTIONAL
Locks - Inactive Leaf	One pair of Kawneer flush bolts in the inactive leaf of a pair of doors.	
Thresholds	A 1/2" x 4" (12.7 x 101.6) aluminum mill finish threshold.	A 1/2" x 6-3/4" (12.7 x 171.5) 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. (The system is complete with an optional EPDM blade gasket sweep strip applied to the bottom door rail with concealed fasteners).	Bottom Door Sweep
Exit Device	Kawneer 1686 Concealed Rod Exit Device with or without a mortised type cylinder. Kawneer 1786 Rim Exit Device is a rim type exit device with or without a rim type cylinder. Pairs of doors require a Kawneer RM-86 removable mullion. Paneline® exit device is a concealed rod exit device applicable to single or pairs of doors. It features an activating panel contained within the door cross rail.	Kawneer 1686 MEL Concealed Rod Exit Device electric modification is available. Kawneer 1786 MEL Rim Exit Device electric modification is available. Kawneer 1686 CD Concealed Rod Exit Device available with cylinder dogging. Kawneer 1786 CD Rim Exit Device available with cylinder dogging. Kawneer 1686 Lever Handle is available for the Kawneer 1686 concealed rod exit device. Kawneer 1786 Lever Handle is available for the Kawneer 1786 rim type exit device. Falcon 1690 Concealed Rod Exit Device with or without a mortised type cylinder. Falcon 1790 Rim Exit Device is a rim type exit device with or without a rim type cylinder. Falcon EL 1690 electric modification is also available. Falcon EL 1790 electric modification is also available. Corbin Russwin ED5200S Rim Exit Device is a rim type exit device. Pairs of doors require a removable mullion, WS707/708AKM. 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. Pairs of doors require a removable aluminum mullion. RM-70 with the Falcon 2090 exit device.
	Exit Device Pulls: Architects Classic CO-9 Pull with Kawneer 1686 and 1786 exit devices. Architects Classic CO9 Pull for Paneline® and Paneline® MEL exit devices.	Optional Exit Device Pulls: Architects Classic CO-12 Pull with Kawneer 1686 and 1786 exit devices.

APPLICATION CRITERIA

As indicated on page 13, the standard sizes of swing doors are 3' 0" x 7' 0" (914.4 x 2,133.6) or 3' 6" x 7' 0" (1,067 x 2,134) for single doors and 6' 0" x 7' 0" (1,828.8 x 2,133.6) for pairs of doors. When these sizes are exceeded the following criteria should be administered.

- 1. Larger doors should not be subject to heavy traffic or strong prevailing wind conditions.
- 2. Larger doors should use a door closer with a good back check action.
- 3. When a door exceeds 9' 0" (2,743.2) in height, a crossrail or push bar is recommended to reinforce the internal vertical stiles.
- 4. When an offset hung door exceeds 7' 6" (2,286.0) in height, an intermediate butt or offset pivot should be used.
- 5. Tall doors should be prevented from racking by proper utilization of hardware, including door closers, door holders and door stops.

NOTE:

SOME OF THESE CRITERIA ARE OF A SUBJECTIVE NATURE, CONTACT YOUR FACTORY REPRESENTATIVE FOR APPLICATION ASSISTANCE.

MAXIMUM DOOR HEIGHT FOR PANELINE® MEL = 8' 0"



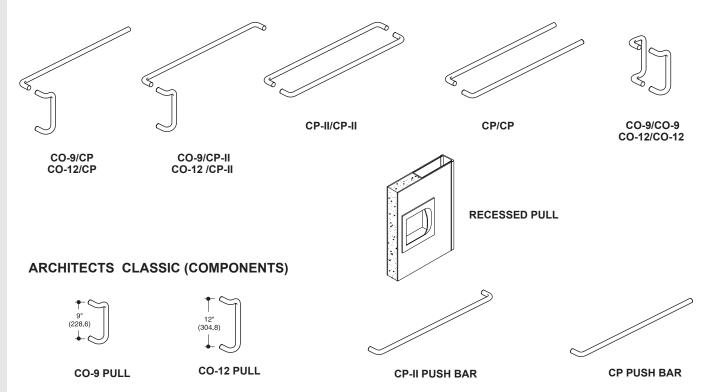
PUSH-PULL HARDWARE

EC 97911-283

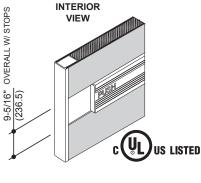
REFER TO HARDWARE SECTION FOR COMPLETE HARDWARE INFORMATION.

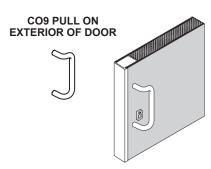
ARCHITECTS CLASSIC (PUSH PULL SETS)

SINGLE ACTING DOORS USE A PULL HANDLE AND PUSH BAR AS STANDARD









EXTERIOR VIEW OF FLUSHLINE® DOOR CO9 PULL AND OPTIONAL CYLINDER GUARD SHOWN.

> SEE PAGE 20 AND 21 FOR COMPLETE PANELINE® INFORMATION

EXIT DEVICES AND PULLS



CO-9 PULL CO-12 PULL



RIM LATCH Falcon 2090



CONCEALED ROD Falcon 1990



CONCEALED ROD Falcon 1690 Falcon EL 1690



Falcon 1790 Falcon EL 1790



RIM LATCH Corbin Russwin ED5200S



CONCEALED ROD Kawneer 1686 Kawneer 1686 MEL Kawneer 1686 CD



Kawneer 1786 Kawneer 1786 MEL Kawneer 1786 CD



LEVER HANDLE Kawneer 1686 Kawneer 1786

KAWNEER

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PANELINE® / PANELINE® MEL EXIT DEVICE

The Paneline® concealed rod exit device for Flushline® doors will accommodate variations in stile width and door width as shown in the following illustrations. Sidelites adjacent to Paneline® equipped doors not requiring exit devices may be fitted with fixed panels as detailed below to match the general appearance of the Paneline® cross rail.

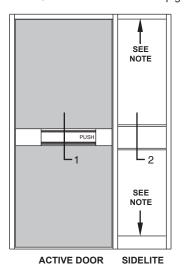
The Optional Paneline® MEL device is designed for electrified access control and is compatible with most key pad and card reader systems.

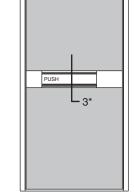
See Hardware Section for complete description of Paneline® hardware, including finish of units.

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

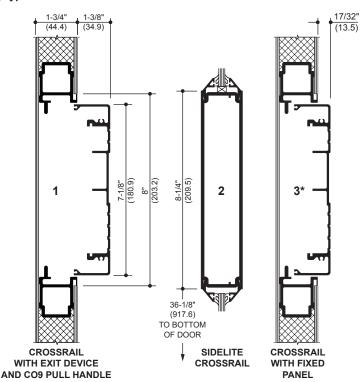
INTERIOR ELEVATIONS

NOTE: Sidelites must be stop glazed above and below rail.

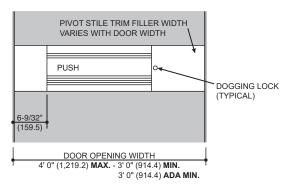




*VESTIBULE DOOR (Without Exit Device or Lock)



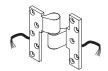
INTERIOR VIEW



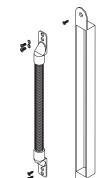
PANELINE® MEL COMPONENTS



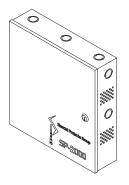




POWER TRANSFER INTERMEDIATE OFFSET PIVOT



ELECTRIC POWER TRANSFER (EPT)



SP-2000 POWER SUPPLY







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PANELINE® EXIT DEVICE

Flushline® Entrances

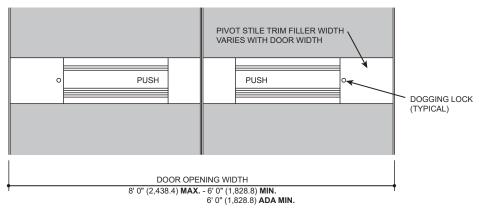
Sidelites adjacent to Paneline® equipped doors not requiring exit devices may be fitted with fixed panels as detailed below to match the general appearance of the Paneline® cross rail.

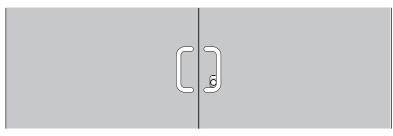
See Hardware Section for complete description of Paneline® hardware, including finish of units.

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

17/32 (44.4) (34.9) **INTERIOR ELEVATION** NOTE: Sidelites must be stop glazed above and below rail. SEE NOTE US LISTED (180.9) 8" (203.2) (209.5)8-1/4" 2 1 OR 3 1 OR 3⁴ SEE NOTE 36-1/8" (917.6) **INACTIVE DOOR ACTIVE DOOR** SIDELITE то воттом * ALTERNATE CROSSRAIL FOR VESTIBULE DOORS OF DOOR (Without Exit Device or Lock) **CROSSRAIL SIDELITE** CROSSRAIL WITH EXIT DEVICE **CROSSRAIL** WITH FIXED AND CO9 PULL HANDLE **PANEL**

INTERIOR VIEW





EXTERIOR VIEW WITH "CO9" PULL AND STANDARD CYLINDER GUARD SHOWN





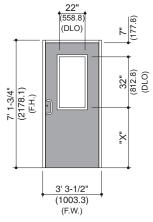
Flushline® Entrances

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THERMAL CHARTS EC 97911-283

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



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

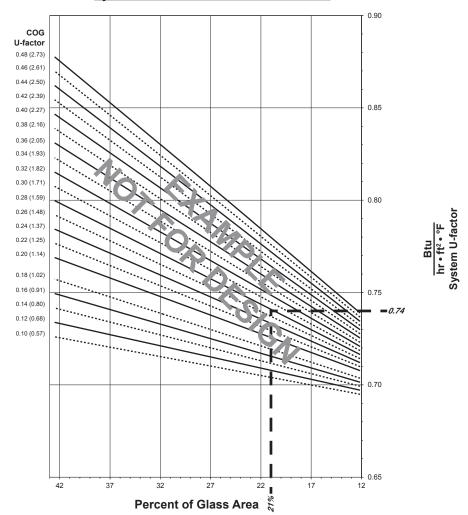
Total Daylight Opening $= 22" \times 32" = 4.89 \text{ ft}^2$

Total Projected Area $= 3' 3-1/2" \times 7' 1-3/4" = 23.52 \text{ ft}^2$

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)100

 $= (4.89 \div 23.52)100 = 21\%$

System U-factor vs Percent of Glass Area



Based on 21% glass and center of glass (COG) U-factor of 0.28 System U-factor is equal to 0.74 Btu/hr • ft² • °F

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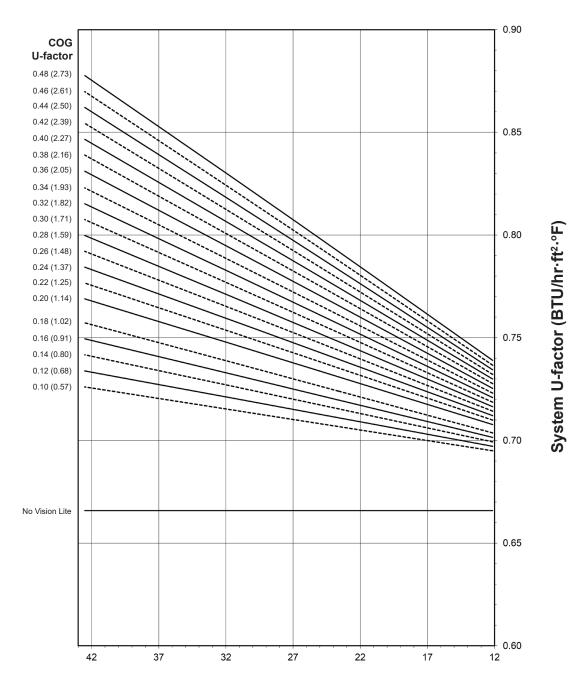


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EC 97911-283 THERMAL CHARTS

FLUSHLINE® DOOR WITH ALUMINUM SKIN

System U-factor vs Percent of Glass Area



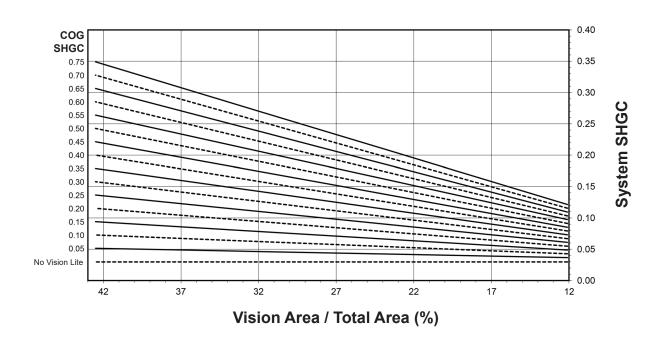
Percent of Glass = Vision Area/Total Area (Total Daylight Opening / Projected Area)

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

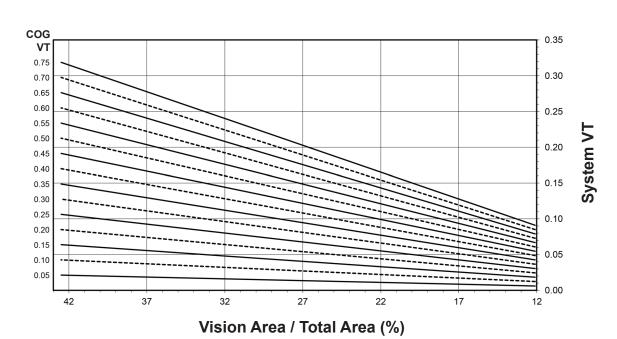
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values (winter conditions) and are obtained from your glass supplier.



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



System Visible Transmittance (VT) vs Percent of Vision Area



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

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

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.74
0.46	0.74
0.44	0.73
0.42	0.73
0.40	0.73
0.38	0.73
0.36	0.73
0.34	0.72
0.32	0.72
0.30	0.72
0.28	0.72
0.26	0.71
0.24	0.71
0.22	0.71
0.20	0.71
0.18	0.70
0.16	0.70
0.14	0.70
0.12	0.70
0.10	0.69
No Vision Lite	0.67

Single Door with Aluminum Panel and 1/4 Vision Lite

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

- 1. U-Factors are determined in accordance with NFRC 100.
- 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 1,920 mm wide by 2,090 mm high (75-1/2" by 82-3/8").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.12
0.70	0.12
0.65	0.11
0.60	0.10
0.55	0.10
0.50	0.09
0.45	0.09
0.40	0.08
0.35	0.07
0.30	0.07
0.25	0.06
0.20	0.05
0.15	0.05
0.10	0.04
0.05	0.04
No Vision Lite	0.03

Visible Transmittance ²

VISIBLE HALISHIILLANCE		
Glass VT ³	Overall VT ⁴	
0.75	0.09	
0.70	0.08	
0.65	0.08	
0.60	0.07	
0.55	0.07	
0.50	0.06	
0.45	0.05	
0.40	0.05	
0.35	0.04	
0.30	0.04	
0.25	0.03	
0.20	0.02	
0.15	0.02	
0.10	0.01	
0.05	0.01	
No Vision Lite	0.00	



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

Overall U-Factor ⁴ 0.79
0.70
0.79
0.78
0.78
0.77
0.77
0.77
0.76
0.76
0.75
0.75
0.74
0.74
0.74
0.73
0.72
0.72
0.72
0.71
0.71
0.67

Single Door with Aluminum Panel and 1/2 Vision Lite

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

- 1. U-Factors are determined in accordance with NFRC 100.
- 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 960 mm wide by 2,090 mm high (37-3/4" by 82-3/8").

SHGC Matrix²

	Overall SHCC 4
Glass SHGC ³	Overall SHGC ⁴
0.75	0.21
0.70	0.20
0.65	0.18
0.60	0.17
0.55	0.16
0.50	0.15
0.45	0.14
0.40	0.12
0.35	0.11
0.30	0.10
0.25	0.09
0.20	0.08
0.15	0.07
0.10	0.05
0.05	0.04
No Vision Lite	0.03

Visible Transmittance ²

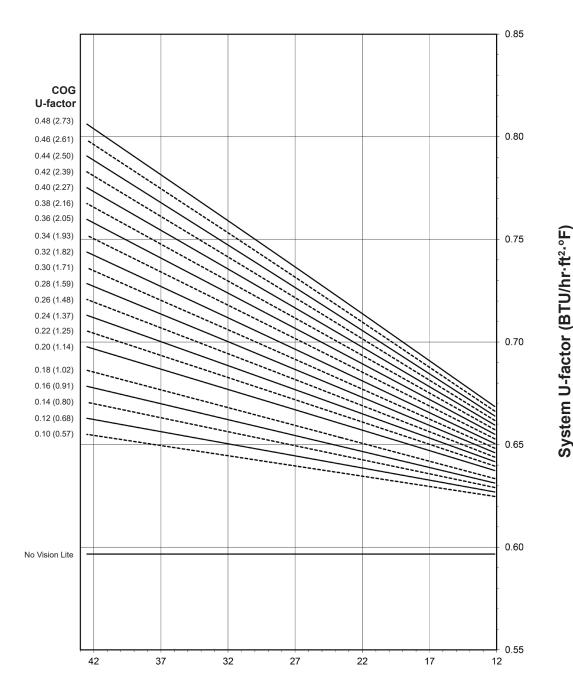
Glass VT ³	Overall VT 4	
0.75	0.18	
0.70	0.17	
0.65	0.15	
0.60	0.14	
0.55	0.13	
0.50	0.12	
0.45	0.11	
0.40	0.09	
0.35	0.08	
0.30	0.07	
0.25	0.06	
0.20	0.05	
0.15	0.04	
0.10	0.02	
0.05	0.01	
No Vision Lite	0.00	
	· · · · · · · · · · · · · · · · · · ·	

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EC 97911-283 THERMAL CHARTS

FLUSHLINE® DOOR WITH FRP SKIN

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.

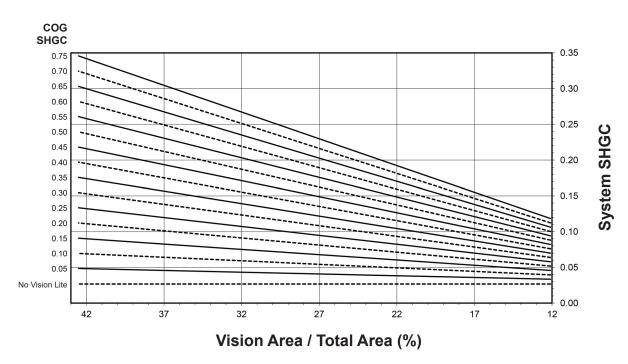


THERMAL CHARTS

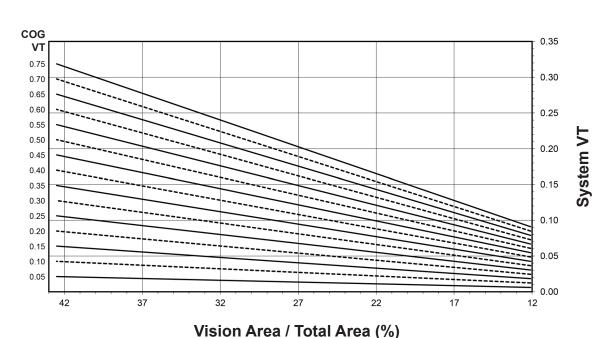
EC 97911-283

FLUSHLINE® DOOR WITH FRP SKIN

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



System Visible Transmittance (VT) vs Percent of Vision Area





THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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EC 97911-283

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

Glass U-Factor ³	Overall U-Factor 4
0.48	0.67
0.46	0.67
0.44	0.66
0.42	0.66
0.40	0.66
0.38	0.66
0.36	0.66
0.34	0.65
0.32	0.65
0.30	0.65
0.28	0.65
0.26	0.64
0.24	0.64
0.22	0.64
0.20	0.64
0.18	0.63
0.16	0.63
0.14	0.63
0.12	0.63
0.10	0.62
No Vision Lite	0.60

Single Door with FRP Panel and 1/4 Vision Lite

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

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.12
0.70	0.11
0.65	0.11
0.60	0.10
0.55	0.09
0.50	0.09
0.45	0.08
0.40	0.08
0.35	0.07
0.30	0.06
0.25	0.06
0.20	0.05
0.15	0.05
0.10	0.04
0.05	0.03
No Vision Lite	0.03

Visible Transmittance ²

VISIBLE HALISHILLANCE		
Glass VT ³	Overall VT 4	
0.75	0.09	
0.70	0.08	
0.65	0.08	
0.60	0.07	
0.55	0.07	
0.50	0.06	
0.45	0.05	
0.40	0.05	
0.35	0.04	
0.30	0.04	
0.25	0.03	
0.20	0.02	
0.15	0.02	
0.10	0.01	
0.05	0.01	
No Vision Lite	0.00	



THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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

0.72 0.72 0.72 0.71 0.71 0.70
0.72 0.71 0.71
0.71 0.71
0.71
0.70
0.70
0.69
0.69
0.69
0.68
0.68
0.67
0.67
0.66
0.66
0.65
0.65
0.64
0.64
0.64
0.60

Single Door with FRP Panel and 1/2 Vision Lite

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

- 1. U-Factors are determined in accordance with NFRC 100.
- 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 960 mm wide by 2,090 mm high (37-3/4" by 82-3/8").

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.20
0.70	0.19
0.65	0.18
0.60	0.17
0.55	0.16
0.50	0.15
0.45	0.13
0.40	0.12
0.35	0.11
0.30	0.10
0.25	0.09
0.20	0.07
0.15	0.06
0.10	0.05
0.05	0.04
No Vision Lite	0.03

Visible Transmittance ²

violate transmittanes	
Glass VT ³	Overall VT 4
0.75	0.18
0.70	0.17
0.65	0.15
0.60	0.14
0.55	0.13
0.50	0.12
0.45	0.11
0.40	0.09
0.35	0.08
0.30	0.07
0.25	0.06
0.20	0.05
0.15	0.04
0.10	0.02
0.05	0.01
No Vision Lite	0.00



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