

Vivid™ Bi-Fold Door

- Unit Features..... 1
- Standard Divided Lite Options..... 5
- Minimum and Maximum Guidelines 7
- Certified Sizes and Ratings 8
- STC/OITC Glass Values 9
- Standard Size Chart - Certified Units 10
- Access Panel - Net Clear Opening..... 11
- Sill Detail: Standard Sill 13
- Section Details: Horizontal 14
- Section Details: Horizontal with Screen 15

Unit Features

Vivid Bi-Fold Door:

VNBFLD - Vivid Bi-Fold Door

- Choose from 1 to 7 panels, 28 configurations. Configurations include stationary and left, right, or center operation. Some configurations include an access panel that opens like a traditional swinging door for easy access. Other configurations have folding panels that allow for an uninhibited opening.

Frame and Panel:

- Frame and panel are Ultrex®, an advanced pultruded fiberglass material that is resistant to thermal expansion and contraction.
- Exterior colors: Stone White, Pebble Grey, Bronze, or Ebony.
- Interior colors: Stone White or Ebony. Ebony available only with Ebony exterior.

Frame:

- Frame thickness: 1 11/16" (43)
- Frame depth: 5 11/16" (144)
- Interior is laminate wrapped, finger-jointed pine.
- Aluminum head track.

Panel:

- Panel thickness: 1 3/4" (44)
- Rail and stiles: 3 5/8" (92)

Sill:

- Performance sill is designed as a sealed draining system with enhanced thermal properties
 - Material: Ultrex with aluminum sill liner to the interior
 - Colors: Beige or Bronze.
 - Extruded vinyl sill insert
 - Frame weather strip, beige or black to match sill colors.
- 5 11/16" (144) wide x 2 3/16" (55) tall

Astragal:

- Astragals applied to the secondary swing panel and seals against the primary swing panel. On 2L2R configuration, the astragal is placed on the right-hand leading panel (from exterior) and seals against interior of left-hand leading panel.
- Dimensions: 1 53/64" (46) x 1 29/64" (37).

Unit Features

Hardware:

• Hinges

- Two or three hinges per folding panel joint
- Material: Stainless steel
- Available Colors: Black or brushed stainless

• Multi-point lock system:

- Applied to active and inactive panels
- 2 3/8" backset with latch engagement and three locking points: deadbolt, sill bolt, and head bolt
- Keyed
- Multi-point lock, latch and deadbolt assembly included on each operating door. Handle has standard deadbolt and top and bottom shoot bolts which are operated by the handle set
- Handle set: interior and exterior selected separately, Northfield handle sets optional
 - Polyester powder coat finish
 - Cambridge handle set: available in White, Matte Black
 - Northfield handle set: available in White, Matte Black
 - Optional finishes are applied to a solid brass substrate
 - Cambridge handle set available in Satin Nickel PVD, Oil Rubbed Bronze PVD
 - Northfield handle set available in Satin Nickel PVD, Oil Rubbed Bronze PVD
 - Standard locking strike plate will be stainless steel

• Twin Bolt Handles

- Material: Stainless Steel
- Available Colors: Black or brushed stainless steel

• Magnetic door catch assembly

- Exterior magnets secure panels in open position.
- Color: Magnets come in two color options to complement exterior hardware package.

Unit Features Continued**Glass:**

- Glazing seal: silicone bedding on interior and exterior
- Standard glass: Low E2 tempered with Argon
- Optional glazing available: Low E1 tempered with Argon or air, Low E3 tempered with Argon or air, Low E2/ERS or Low E3/ERS tempered with Argon or air, obscure, glue chip, frost, Bronze Tint, Gray Tint, and Green Tint
- Insulating glass will be altitude adjusted with capillary tubes for higher elevations
- Argon gas is not available for elevations that require capillary tubes
- Glazing options: STC Upgrade (Low E2 and Low E3 available)

Simulated Divided Lites (SDL):

- 7/8" (22) bar (interior and exterior)
- Exterior: color matched to unit exterior
- Interior: color matched to interior
- Pattern: equal rectangular, cottage, prairie, oriel, check rail

Grilles-Between-the-Glass (GBG):

- 23/32" (18) contoured aluminum bar
- Exterior: color matched to unit exterior is standard. Customer selected option is available.
- The exterior GBG color is designed to best match the unit exterior color when used with Low E glass. The use of different types of glazing options may alter the exterior GBG color appearance.
- Interior colors: Stone White, Ebony
- Pattern: equal rectangular, cottage, prairie, oriel, check rail

Interior Screen:

- Retractable Screen
 - Screen Frame color:
 - Standard: White, Black
- Screen mesh: Polypropylene with UV Surface Treatment
 - Color: Charcoal
- Single Screen:
 - Open from left to right or right to left
 - Maximum Screen Frame OM Width is 177" (4496)
- Double Screen:
 - Two screens open from each side and meet together
 - Maximum Screen Frame OM Width is 315" (8001)
- Maximum Screen OM Height for all configurations is 118" (2997)

Unit Features

Weather Strip:

- All units are constructed with vinyl weather strip at all panel perimeter joints. Weather strip exposed to the exterior will be a UV (ultraviolet) resistant material.
- Sill weather strip seals against the panel
 - Foam-filled leaf
 - Colors: Beige for beige sill, Black for bronze sill
- Jamb weather strip seals against the interior of the panel
 - Dual, hollow bulb applied to jamb, seals against interior of panel
 - Colors: Black
- Head Jamb weather strip
 - Foam-filled leaf is applied to the interior head jamb and seals against panel
 - Single, Hollow bulb is used to seal against the exterior of the top rails
 - Color: Black
- Panel weather strip
 - Stile weather strip
 - Between panels, each opposing stile has two rows of single bulb weather strip to seal against each other.
 - Between the jamb and panel, there are locking stiles and pivot stiles. Locking stiles have a single row of single bulb weather strip. Pivot stiles use two rows of single bulb weather strip
 - Color: Black
 - Bottom rail weather strip
 - Under each panel, there is one row of single hollow bulb weather strip to seal against the exterior of the sill.
 - Color: Black
 - Astragal weather strip
 - Dual hollow bulb
 - Single hollow bulb on exterior
 - Color: Black

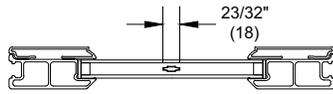
Packaging:

- Knocked-Down (KD) only
 - Panels are packaged in cardboard, foam, stretch wrap, and strapping. Frame components are wrapped in paper, packaged in cardboard, and strapped together.

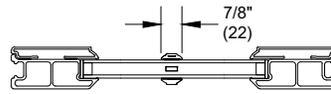
Installation:

- May be installed in both stud and masonry openings
- Sill pan required (not provided by Marvin)
- Methods:
 - Through jamb installation (required for a certified install)
 - Nailing Fin
 - Structural brackets

Standard Divided Lite Options



Insulating Glass
23/32" GBG



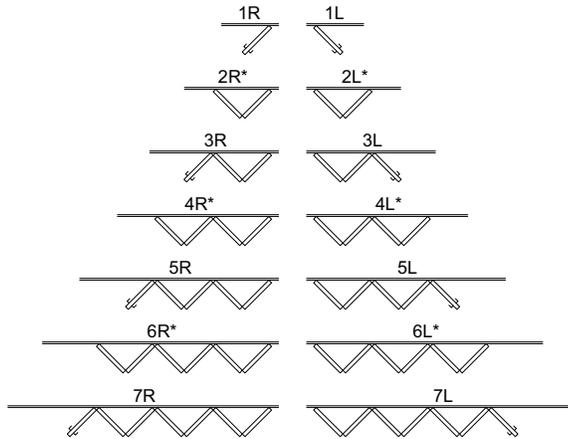
Insulating Glass
7/8" SDL w/ spacer bar

Configurations

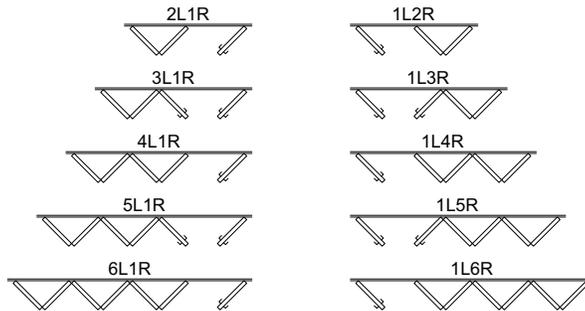
Stationary Unit



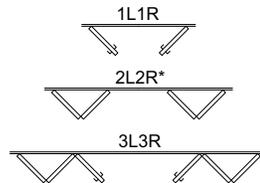
Uni-directional Left or Right Units



Uni-directional Left or Right Units with Operating Panel/s



Bi-parting (equal) Units



* Not accessible from the exterior.

Minimum and Maximum Guidelines

Unit Type	Frame Size							
	Min Width		Min Height		Max Width		Max Height	
	in	mm	in	mm	in	mm	in	mm
O	24 1/2	(622)	79 1/2	(2019)	39 9/32	(998)	95 1/2	(2426)
1L, 1R	24 3/4	(629)	79 1/2	(2019)	39 9/32	(998)	95 1/2	(2426)
2L, 2R, 1L1R	47 7/8	(1216)	79 1/2	(2019)	76 59/64	(1954)	95 1/2	(2426)
3L, 3R, 2L1R, 1L2R	70 37/64	(1793)	79 1/2	(2019)	114 5/32	(2900)	95 1/2	(2426)
4L, 4R, 3L1R, 1L3R, 2L2R	93 5/8	(2378)	79 1/2	(2019)	151 23/32	(3854)	95 1/2	(2426)
5L, 5R, 4L1R, 1L4R	116 25/64	(2956)	79 1/2	(2019)	189	(4801)	95 1/2	(2426)
6L, 6R, 5L1R, 1L5R, 3L3R	139 21/64	(3539)	79 1/2	(2019)	226 15/32	(5752)	95 1/2	(2426)
7L, 7R, 6L1R, 1L6R	162 3/16	(4120)	79 1/2	(2019)	263 27/32	(6702)	95 1/2	(2426)

NOTE: Frame size widths in operator configurations are not available within this range:

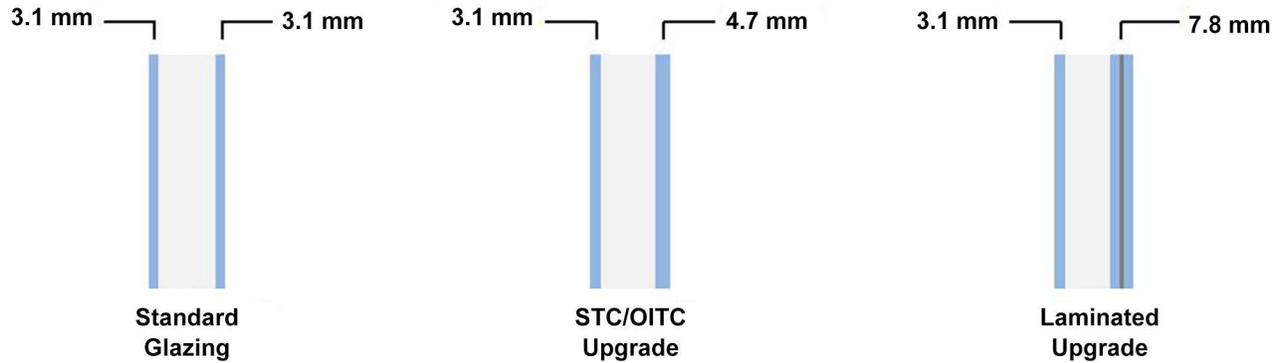
- 39 9/32"(largest one panel) to < 47 7/8 (smallest two panel)

Certified Sizes and Ratings

Product	Air Tested to psf	Water Tested to psf	Design Pressure (DP)	Certification Rating	Max Overall Frame Width		Max Overall Frame Height	
					in	mm	in	mm
Infinity Bi-Fold Door (O)	1.57	4.59	30	LC-PG30-FLD	39.275	(998)	95.5	(2426)
Infinity Bi-Fold Door (1L, 1R)	1.57	4.59	30	LC-PG30-FLD	39.275	(998)	95.5	(2426)
Infinity Bi-Fold Door (2L, 2R, 1L1R)	1.57	4.59	30	LC-PG30-FLD	76.926	(1954)	95.5	(2426)
Infinity Bi-Fold Door (3L, 3R, 2L1R, 1L2R)	1.57	4.59	30	LC-PG30-FLD	114.15	(2899)	95.5	(2426)
Infinity Bi-Fold Door (4L, 4R, 3L1R, 1L3R, 2L2R)	1.57	4.59	30	LC-PG30-FLD	151.73	(3854)	95.5	(2426)
Infinity Bi-Fold Door (5L, 5R, 4L1R, 1L4R)	1.57	4.59	30	LC-PG30-FLD	189	(4801)	95.5	(2426)
Infinity Bi-Fold Door (6L, 6R, 5L1R, 1L5R, 3L3R)	1.57	4.59	30	LC-PG30-FLD	226.463	(5752)	95.5	(2426)
Infinity Bi-Fold Door (7L, 7R, 6L1R, 1L6R)	1.57	4.59	30	LC-PG30-FLD	263.847	(6702)	95.5	(2426)

STC/OITC Glass Values

STC/OITC ratings are shown in the chart below. Atlas's STC/OITC values are provided by third party ASTM testing and reports. The STC/OITC Upgrade option incorporates variable glass thickness or laminate (L) to increase STC/OITC performance and improve sound abatement..

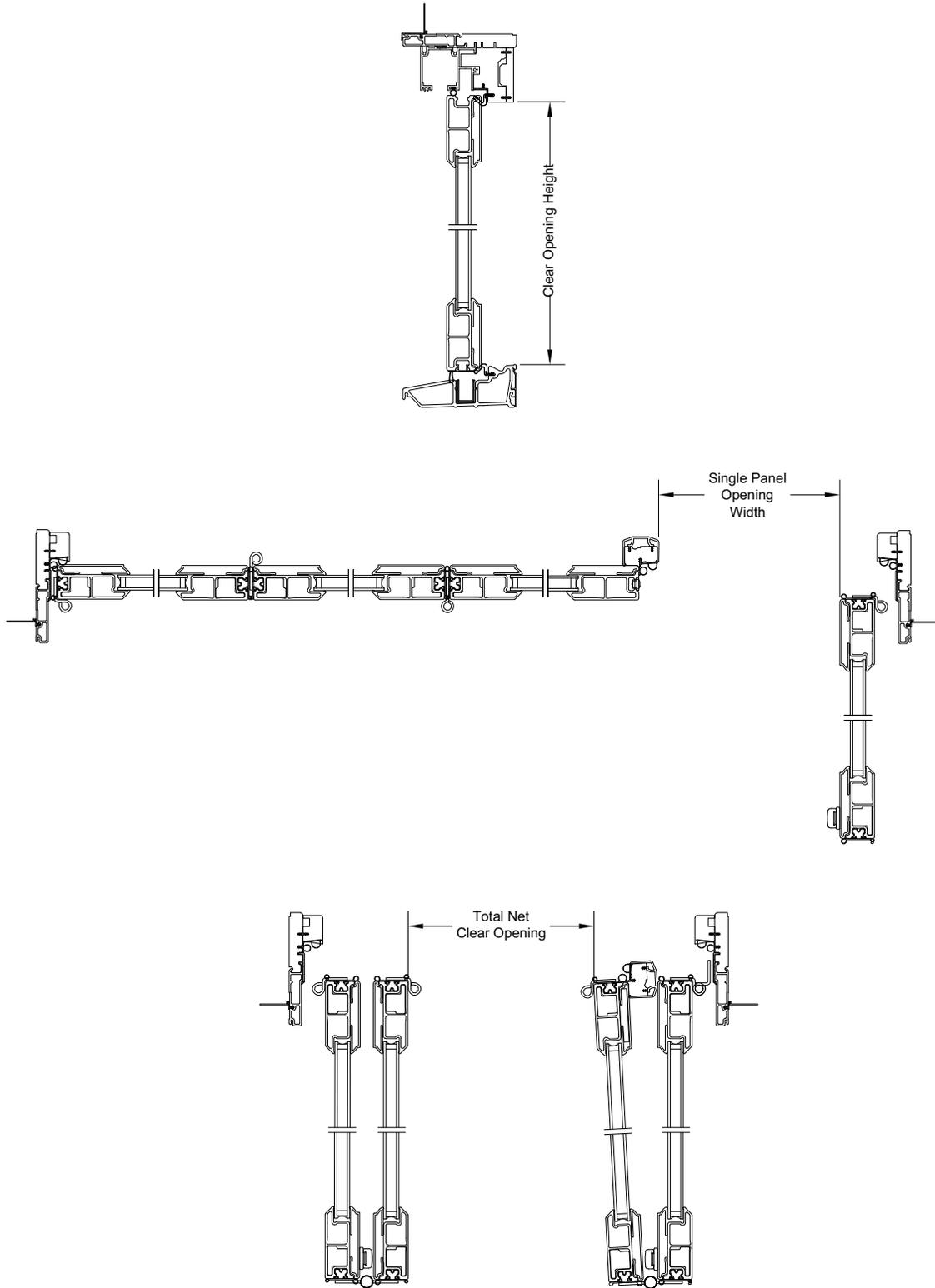


Product Type	Exterior Glazing	Airspace	Interior Glazing or Center Glazing	STC	OITC
Vivid Bifold Door	1/8" (3.1)	17/32" (13.0)	1/8" (3.1)	29	24
	1/8" (3.1)	15/32" (11.5)	3/16" (4.7)	31	27
	1/8" (3.1)	5/16" (8.0)	5/16" (7.8) PVB laminate	33	28

Standard Size Chart - Certified Units

Vivid Bi-Fold Unit Measurements													
Width													
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
1 Panel Stationary	3-0	3-1 3/32	(942)	3-1 19/32	(955)	3-0 19/32	(929)	2-10 11/16	(881)	2-3 7/16	(697)	28 11/16	(729)
	3-4	3-3 25/32	(1010)	3-4 9/32	(1023)	3-3 9/32	(998)	3-1 3/8	(949)	2-6 1/8	(765)	31 3/8	(797)
1 Panel Operator	3-0	3-1 3/32	(942)	3-1 19/32	(955)	3-0 19/32	(929)	2-10 7/16	(875)	2-3 3/16	(691)	28 7/16	(722)
	3-4	3-3 25/32	(1010)	3-4 9/32	(1023)	3-3 9/32	(998)	3-1 1/8	(943)	2-5 7/8	(759)	31 7/64	(790)
2 Panel	6-0	6-0 1/16	(1830)	6-0 9/16	(1843)	5-11 9/16	(1818)	2-10 7/16	(875)	2-3 3/16	(691)	28 7/16	(722)
	6-6	6-5 27/64	(1967)	6-5 59/64	(1979)	6-4 59/64	(1954)	3-1 1/8	(943)	2-5 7/8	(759)	31 7/64	(790)
3 Panel	9-0	8-10 39/64	(2708)	8-11 7/64	(2721)	8-10 7/64	(2695)	2-10 7/16	(875)	2-3 3/16	(691)	28 7/16	(722)
	9-8	9-6 21/32	(2912)	9-7 5/32	(2925)	9-6 5/32	(2899)	3-1 1/8	(943)	2-5 7/8	(759)	31 7/64	(790)
4 Panel	12-0	11-9 1/2	(3594)	11-10	(3607)	11-9	(3581)	2-10 7/16	(875)	2-3 3/16	(691)	28 7/16	(722)
	12-8	12-8 7/32	(3867)	12-8 23/32	(3879)	12-7 23/32	(3854)	3-1 1/8	(943)	2-5 7/8	(759)	31 7/64	(790)
5 Panel	15-0	14-8 3/32	(4473)	14-8 19/32	(4485)	14-7 19/32	(4460)	2-10 7/16	(875)	2-3 3/16	(691)	28 7/16	(722)
	16-0	15-9 1/2	(4813)	15-10	(4826)	15-9	(4801)	3-1 1/8	(943)	2-5 7/8	(759)	31 7/64	(790)
6 Panel	17-8	17-6 7/8	(5356)	17-7 3/8	(5369)	17-6 3/8	(5344)	2-10 7/16	(875)	2-3 3/16	(691)	28 7/16	(722)
	19-0	18-10 31/32	(5765)	18-11 15/32	(5778)	18-10 15/32	(5752)	3-1 1/8	(943)	2-5 7/8	(759)	31 7/64	(790)
7 Panel	20-6	20-5 37/64	(6238)	20-6 5/64	(6250)	20-5 5/64	(6225)	2-10 7/16	(875)	2-3 3/16	(691)	28 7/16	(722)
	22-0	22-0 11/32	(6714)	22-0 27/32	(6727)	21-11 27/32	(6702)	3-1 1/8	(943)	2-5 7/8	(759)	31 7/64	(790)
Height													
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
All Configurations	6-5	6-7 3/4	(2026)	6-8	(2032)	6-7 1/2	(2019)	6-2 35/64	(1894)	5-7 19/64	(1709)	68 31/64	(1740)
	6-8	6-10 1/4	(2089)	6-10 1/2	(2096)	6-10	(2083)	6-5 3/64	(1957)	5-9 51/64	(1773)	70 63/64	(1803)
	7-0	7-2 1/4	(2191)	7-2 1/2	(2197)	7-2	(2184)	6-9 3/64	(2059)	6-1 51/64	(1874)	74 63/64	(1905)
	8-0	7-11 3/4	(2432)	8-0	(2438)	7-11 1/2	(2426)	7-6 35/64	(2300)	6-11 19/64	(2116)	84 31/64	(2146)

Access Panel - Net Clear Opening



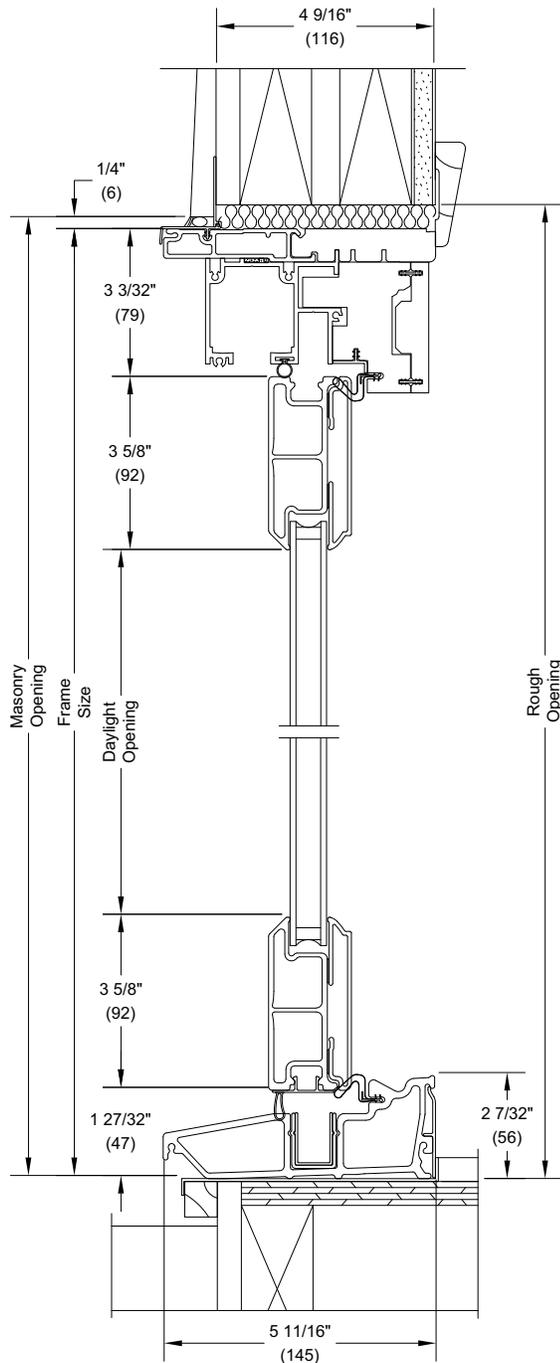
Net Clear Opening - Single Panel and Overall

Vivid Bi-Fold Door Net Clear Opening Height		
Height		
All Configurations	Call Number	Net Clear Openings
		ft - in mm
	6-5	6-1 45/64 (1872)
	6-8	6-4 13/64 (1935)
	7-0	6-8 13/64 (2037)
8-0	7-5 45/64 (2278)	

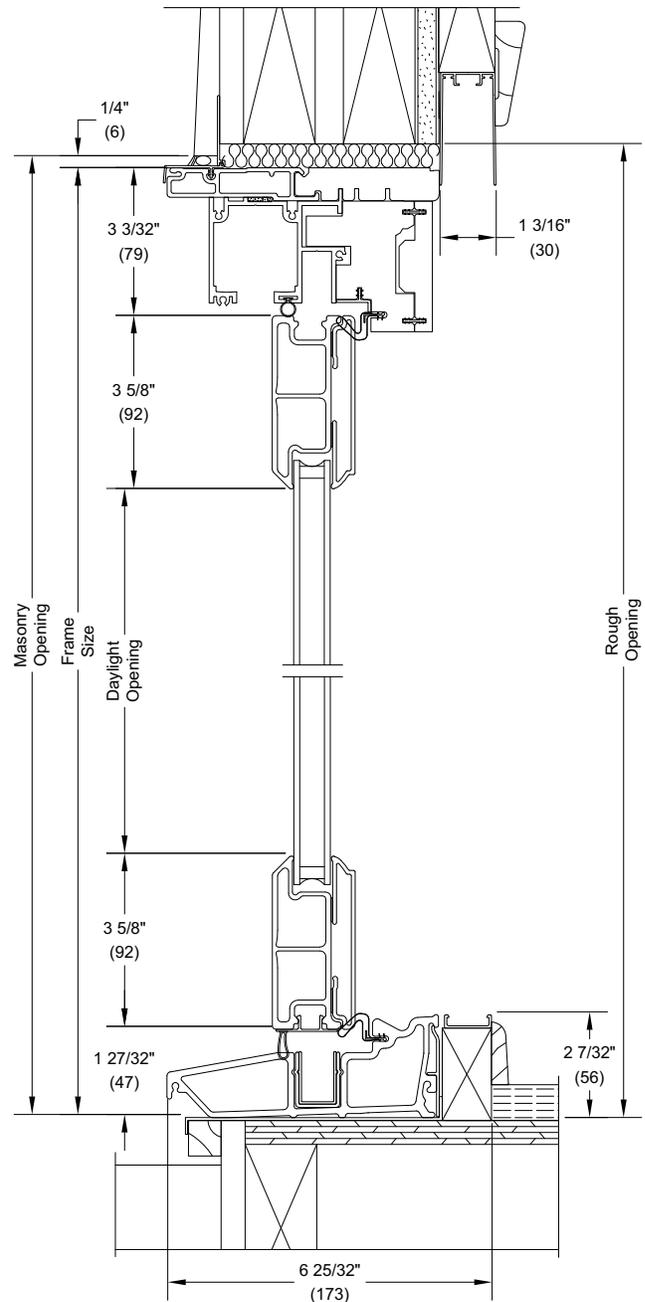
Vivid Bi-Fold Door Net Clear Opening Width for Single Panel							
Unit Configuration	Call Number	Net Clear Openings		Net Clear Openings, Single Pleated Retractable Screen		Net Clear Openings, Double Pleated Retractable Screen	
		ft-in	mm	ft-in	mm	ft-in	mm
		1L, 1R	3-0	2-7 31/64	(800)	2-7 9/32	(795)
	3-4	2-10 5/32	(868)	2-9 15/16	(862)	NA	NA
1L1R	6-0	2-7 23/32	(806)	2-7 23/32	(806)	2-7 23/32	(806)
	6-6	2-10 13/32	(874)	2-10 13/32	(874)	2-10 13/32	(874)
2L, 2R	6-0	NA	NA	NA	NA	NA	NA
	6-6	NA	NA	NA	NA	NA	NA
2L1R, 1L2R	9-0	2-7 35/64	(801)	2-7 35/64	(801)	2-7 3/8	(797)
	9-8	2-10 15/64	(870)	2-10 15/64	(870)	2-10 1/64	(864)
3L, 3R	9-0	2-8 1/16	(815)	2-8 1/16	(815)	2-6 5/32	(766)
	9-8	2-10 3/4	(883)	2-10 3/4	(883)	2-8 25/32	(833)
2L2R	12-0	NA	NA	NA	NA	NA	NA
	12-8	NA	NA	NA	NA	NA	NA
3L1R, 1L3R	12-0	2-7 47/64	(806)	2-7 47/64	(806)	2-7 11/32	(796)
	12-8	2-10 13/32	(874)	2-10 13/32	(874)	2-9 61/64	(863)
4L, 4R	12-0	NA	NA	NA	NA	NA	NA
	12-8	NA	NA	NA	NA	NA	NA
4L1R, 1L4R	15-0	2-7 39/64	(803)	NA	NA	2-7 1/64	(788)
	16-0	2-10 19/64	(871)	NA	NA	2-9 39/64	(854)
5L, 5R	15-0	2-8 1/8	(816)	NA	NA	2-5 25/32	(756)
	16-0	2-10 51/64	(884)	NA	NA	2-8 3/8	(823)
3L3R	17-8	2-8 11/64	(817)	NA	NA	2-8 11/64	(817)
	19-0	2-10 55/64	(885)	NA	NA	2-10 55/64	(885)
5L1R, 1L5R	17-8	2-7 43/64	(805)	NA	NA	2-6 55/64	(784)
	19-0	2-10 23/64	(873)	NA	NA	2-9 29/64	(850)
6L, 6R	17-8	NA	NA	NA	NA	NA	NA
	19-0	NA	NA	NA	NA	NA	NA
6L1R, 1L6R	20-6	2-7 21/32	(804)	NA	NA	2-6 41/64	(778)
	22-0	2-10 11/32	(872)	NA	NA	2-9 13/64	(843)
7L, 7R	20-6	2-8 11/64	(817)	NA	NA	2-5 13/32	(747)
	22-0	2-10 55/64	(885)	NA	NA	2-7 63/64	(812)

Sill Detail: Standard Sill

Scale: Not to Scale



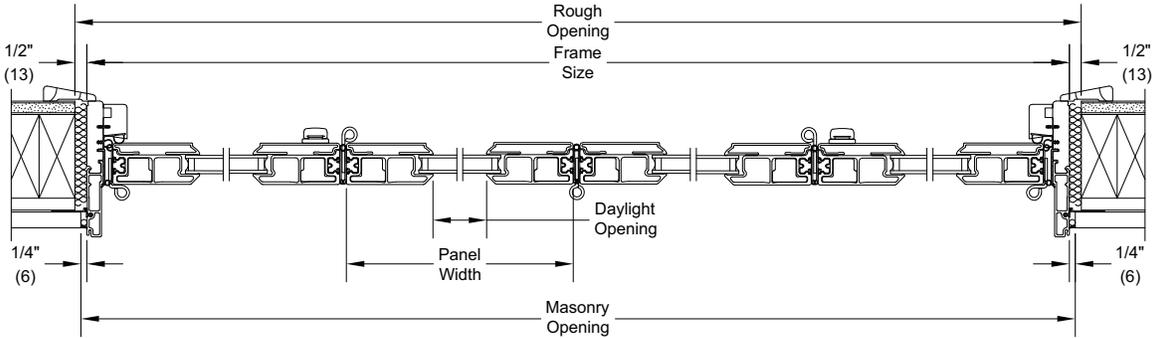
Head Jamb & Sill



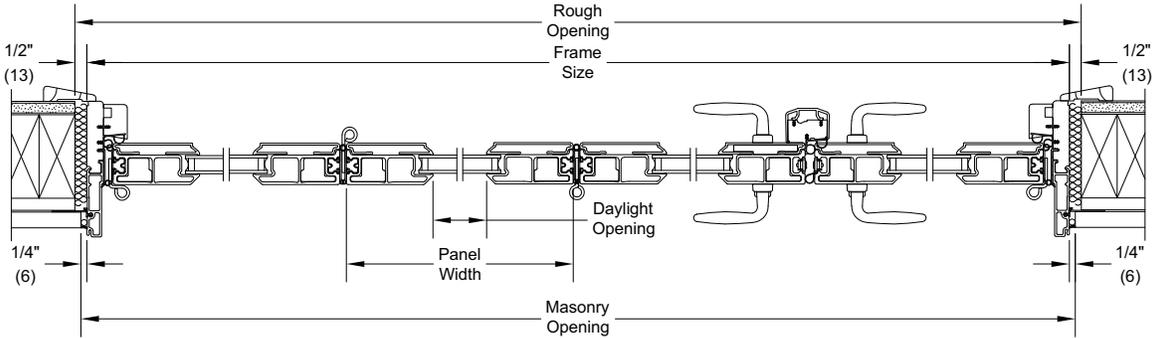
Head Jamb & Sill
w/ screen

Section Details: Horizontal

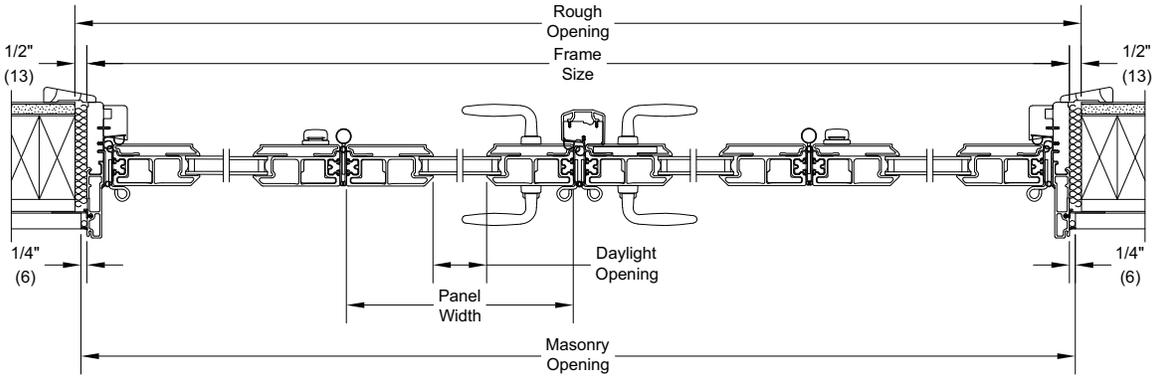
Scale: Not to Scale



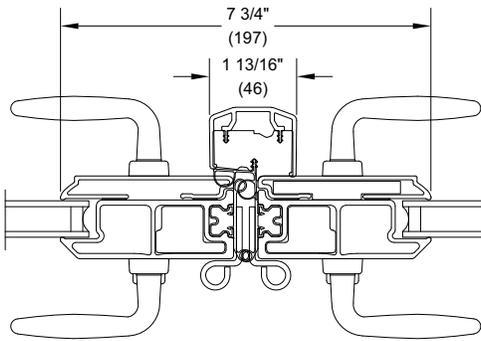
VNBFLD 4L



VNBFLD 3L1R



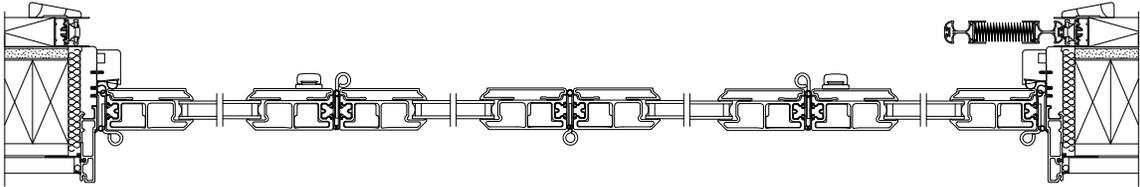
VNBFLD 2L2R



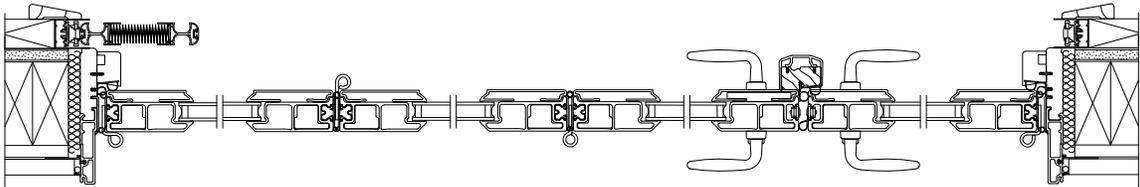
Astragal Detail

Section Details: Horizontal with Screen

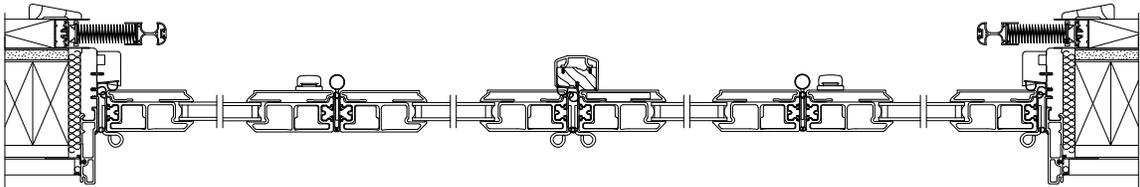
Scale: Not to Scale



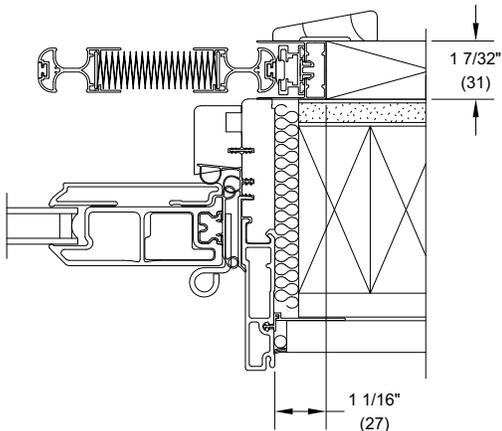
VNBFLD 4L
Right Single Retractable Pleated Screen



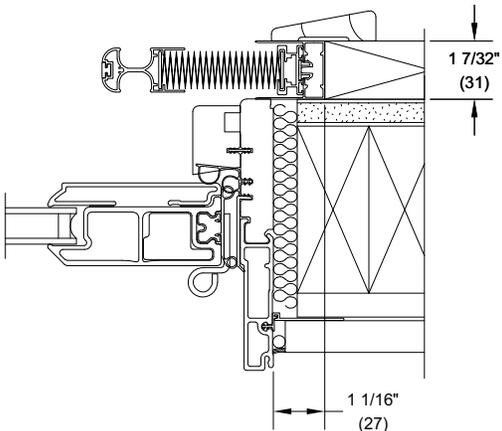
VNBFLD 3L1R
Left Single Retractable Pleated Screen



VNBFLD 2L2R
Double Retractable Pleated Screen



Single Retractable Pleated
Screen Detail



Double Retractable Pleated
Screen Detail