



ENTRY & STORM DOOR
MEASUREMENT GUIDE



ENTRY & STORM DOOR **MEASURING GUIDE**

MEASURING & ORDERING INFORMATION

STANDARD VS. CUSTOM SIZING

STANDARD SIZES

Standard Sizes, also known as nominal sizes, are commonly used, industry-accepted dimensions that fit typical rough openings without requiring custom sizing. Check entryLINK for the Standard Size availability for particular door styles and types.

Refer to the charts on pages 2 and 3 or the sizing tab on entryLINK to determine the Opening Size or Rough Opening required for the selected Standard Size. The charts also show the Unit Size and Brickmold to Brickmold Size.

CUSTOM SIZES

All doors and sidelites can be cutdown to a custom height. In some cases, based on the amount of cutdown needed, the unit may need to be cutdown from the top and the bottom. See page 5 for maximum cutdown information. Doors with sidelites can have a custom width by increasing the size of the mullion between the door and each sidelite. Custom widths and heights are available in 1/8" increments for Legacy™ Textured and Smooth Steel, Signet® and Ascent™ Fiberglass doors.

If you measure your door using one of the methods listed below you can use the Sizing Charts on pages 2-4 to determine if you need a Standard Size or a Custom Size door.

MEASURING INSTRUCTIONS

A FRAME RABBET OPENING SIZE

Use Frame Rabbet Opening Size measurements when there is an existing wood frame in the opening. Frame Rabbet Opening Size is the simplest way to measure a door since there is no need to remove any existing interior trim. Frame Rabbet Opening Size measurements can be used to order any door.

- **Width:** To measure the Frame Rabbet Opening Size width, measure between the left and right frame rabbet at the top, middle and the bottom. Use the smallest dimension.
- **Height:** To measure the Frame Rabbet Opening Size height, measure from the bottom of the threshold to the bottom of top frame rabbet.

Note: Frame Rabbet Opening Size and Rough Opening are **not** the same measurement. See below for an explanation of Rough Opening.

B UNIT SIZE

Use the Unit Size measurement to specify the exact size of a FrameSaver®, Fusion Frame™ or PermaTech™ Frame (**not including brickmold**). Use Unit Size measurements if the frame size of a new door needs to match the existing door's wood frame size. Unit Size measurements are only used for FrameSaver, Fusion Frame or PermaTech Frame doors. **Do not order Steel L-frame doors using Unit Size measurements.**

- **Width:** To measure the Unit Size width measure the actual width of the existing door's wood frame (**not including brickmold**) at the top, middle and the bottom. Use the smallest dimension.
- **Height:** To measure the Unit Size height measure from the bottom of the threshold to the top of the existing door's frame (**not including brickmold**).

Note: To measure the Unit Size of an existing door's wood frame, the existing interior trim (if any) will need to be removed.

C ROUGH OPENING SIZE

Use Rough Opening measurements for New Construction type openings. Rough Opening can also be used to measure an existing door only if the interior trim is removed and the wall studs are exposed. Rough Opening measurements are used only for FrameSaver, Fusion Frame and PermaTech Frame doors. **Do not order Steel L-frame doors using Rough Opening measurements.**

- **Width:** To measure the Rough Opening width measure between the left and right vertical wall studs that are framing the opening.
- **Height:** To measure the Rough Opening height measure from the floor to the bottom of the top header framing the opening.

D BRICKMOLD TO BRICKMOLD SIZE

Brickmold size does not determine frame size. Brickmold is always adjusted independent of unit size. Use Brickmold to Brickmold Size measurements if the brickmold size of a new door needs to match the existing door's brickmold size. Brickmold to Brickmold Size measurements are used for FrameSaver, Fusion Frame and PermaTech Frame doors.

- **Width:** To measure the Brickmold to Brickmold Size width, measure the actual width of the existing door's brickmold at the top, middle and the bottom. Use the smallest dimension.
- **Height:** To measure the Brickmold to Brickmold Size height, measure from the bottom of the threshold to the top of the existing door's brickmold.

Note: To accommodate standard size Rough Openings with custom Brickmold to Brickmold Sizes, the brickmold can be custom sized and/or shipped unattached.

HANDING INSTRUCTIONS

See the figures to the right to determine the handing of your entry door. Inswing doors are viewed from the inside and outswing doors are viewed from the outside.

ENTRY DOOR SIZING INFORMATION

A FRAME RABBIT OPENING SIZE

- **Width:** The dimension from inside frame rabbit to inside frame rabbit.
- **Height:** The dimension from the bottom of the threshold to the bottom of the top frame rabbit

B UNIT SIZE

- **Width:** The total width of the door frame not including the brickmold.
- **Height:** The dimension from the bottom of the threshold to the top of the door frame not including the brickmold.

C ROUGH OPENING SIZE

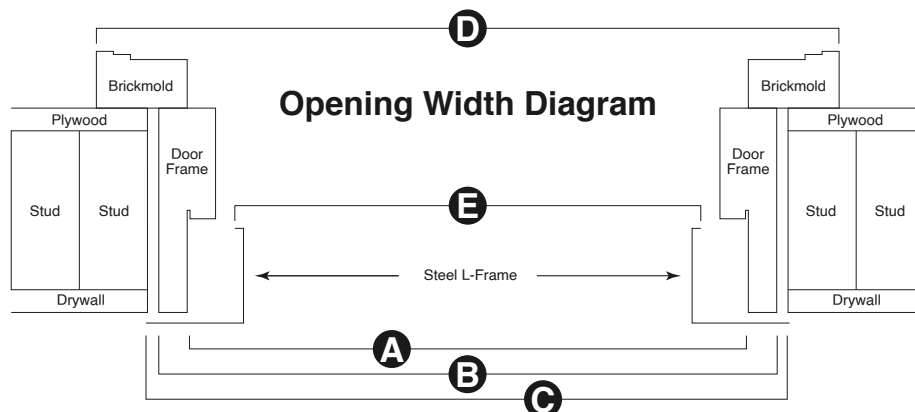
- **Width:** The dimension between the 2 wall studs framing the opening.
- **Height:** The dimension from the floor to the bottom of the header framing the opening.

D BRICKMOLD TO BRICKMOLD SIZE

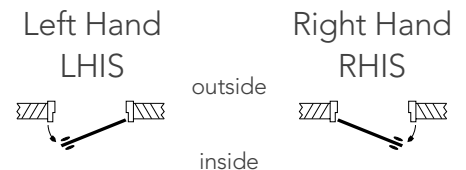
- **Width:** The total width of the brickmold.
- **Height:** The dimension from the bottom of the threshold to the top of the brickmold.

E STEEL L-FRAME UNIT SIZE

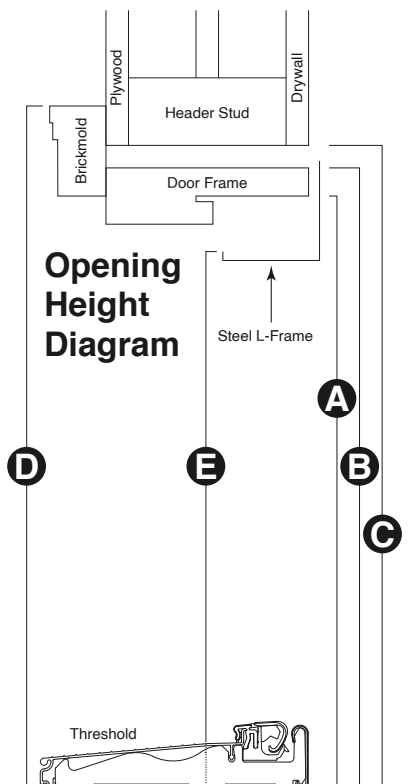
- **Width:** The total width of the door frame not including the inside flange.
- **Height:** The dimension from the bottom of the threshold to the top of the door frame not including the inside flange.



INSWING



OUTSWING



ENTRY DOOR SIZING INFORMATION

DOOR AND SIDELITE UNITS WITH FRAME DEPTH GREATER THAN 6 ⁹/₁₆"

On doors with sidelites that have a frame depth greater than 6 ⁹/₁₆" you must now choose one of the following build-up options.

Perimeter & Mullion Build-up:

Refer to Figure A to see how the perimeter wood frame and the center mullions are extended the same distance.

Perimeter Only Build-up:

Refer to Figure B to see how the perimeter wood frame is extended to the desired frame depth. The center mullions are only extended to a 5 ¹/₄" frame depth regardless of the perimeter frame depth.

Figure A
Perimeter & Mullion Build-Up

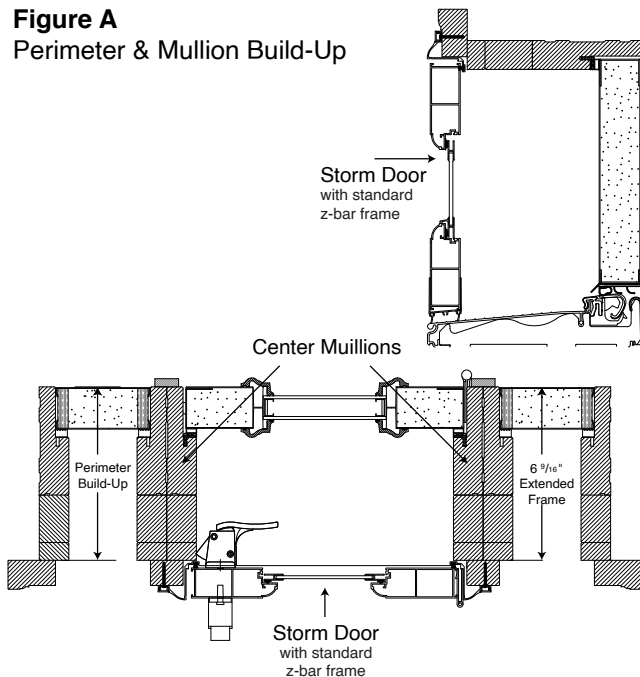
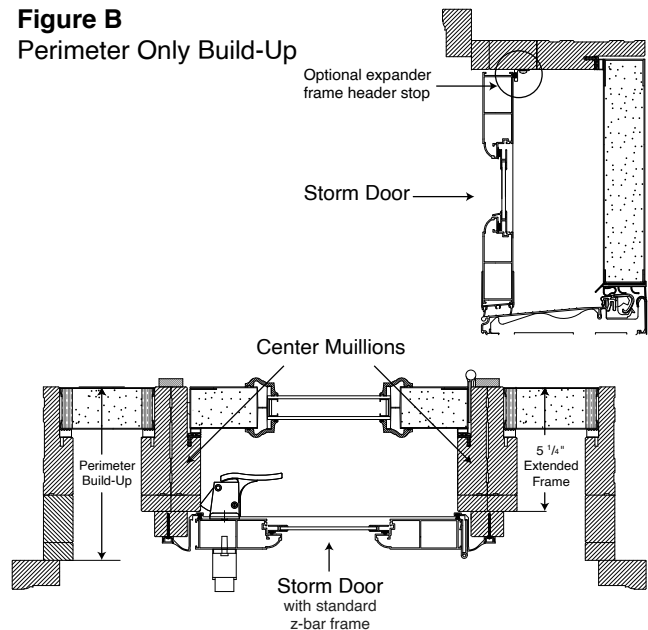


Figure B
Perimeter Only Build-Up



STEEL L-FRAME SIZES

WIDTH MEASUREMENTS		
Standard Size	Frame Rabbet Opening Size Range	Unit Size**
Single Door		
24"	23 ⁷ / ₈ " (min.) to 24 ¹ / ₂ "	23 ¹ / ₂ "
28"	27 ⁷ / ₈ " (min.) to 28 ¹ / ₂ "	27 ¹ / ₂ "
30"	29 ⁷ / ₈ " (min.) to 30 ¹ / ₂ "	29 ¹ / ₂ "
32"	31 ⁷ / ₈ " (min.) to 32 ¹ / ₂ "	31 ¹ / ₂ "
34"	33 ⁷ / ₈ " (min.) to 34 ¹ / ₂ "	33 ¹ / ₂ "
36"	35 ⁷ / ₈ " (min.) to 36 ¹ / ₂ "	35 ¹ / ₂ "
42"	41 ⁷ / ₈ " (min.) to 42 ¹ / ₂ "	41 ¹ / ₂ "

WIDTH MEASUREMENTS		
Standard Size	Frame Rabbet Opening Size Range	Unit Size**
French Door*		
48"	47 ¹ / ₈ " (min.) to 47 ¹ / ₂ "	46 ¹ / ₁₆ "
56"	55 ¹ / ₈ " (min.) to 55 ¹ / ₄ "	54 ¹ / ₁₆ "
60"	59 ¹ / ₈ " (min.) to 59 ¹ / ₂ "	58 ¹ / ₁₆ "
64"	63 ¹ / ₈ " (min.) to 63 ¹ / ₂ "	62 ¹ / ₁₆ "
68"	67 ¹ / ₈ " (min.) to 67 ¹ / ₂ "	66 ¹ / ₁₆ "
72"	71 ¹ / ₈ " (min.) to 71 ¹ / ₂ "	70 ¹ / ₁₆ "

HEIGHT MEASUREMENTS		
Standard Size	Frame Rabbet Opening Size Range	Unit Size**
Single Door		
78"	78" to 78 ³ / ₈ "	77 ¹ / ₁₆ "
80"	80" to 80 ³ / ₈ "	79 ¹ / ₁₆ "
82"	82" to 82 ³ / ₈ "	81 ¹ / ₁₆ "
84"	84" to 84 ³ / ₈ "	83 ¹ / ₁₆ "

* Please note the Frame Rabbet Opening Width ranges for Steel L-Frame French Doors. For example, the optimal Frame Rabbet Opening Width for a 72" Steel L-Frame French Door is 71¹/₈" to 71¹/₂". A 72" Frame Rabbet Opening Width will require some shimming.

** Steel L-Frame unit sizes are for reference purposes only. Use Frame Rabbet Opening Size when ordering Steel L-Frame doors.

FRAMESAVER® FRAME SIZES

HEIGHT MEASUREMENTS				
Standard Size	Frame Rabbet Opening Size	Unit Size	Rough Opening	Brickmold to Brickmold
Patio Units (Downsized)				
80"	78 ¹¹ / ₁₆ "	79 ¹ / ₁₆ "	79 ¹⁵ / ₁₆ "	80 ¹¹ / ₁₆ "
Patio Units (Full Sized)				
80"	80 ¹⁵ / ₁₆ "	81 ¹¹ / ₁₆ "	82 ³ / ₁₆ "	82 ¹⁵ / ₁₆ "
All FrameSaver Frame Doors				
80"	80 ¹⁵ / ₁₆ "	81 ¹¹ / ₁₆ "	82 ³ / ₁₆ "	82 ¹⁵ / ₁₆ "
84"	84 ¹⁵ / ₁₆ "	85 ¹¹ / ₁₆ "	86 ³ / ₁₆ "	86 ¹⁵ / ₁₆ "
96"	96 ¹⁵ / ₁₆ "	97 ¹¹ / ₁₆ "	98 ³ / ₁₆ "	98 ¹⁵ / ₁₆ "
All FrameSaver Frame Doors with 512, 513, 612, 613, or 616 Transoms				
80"	96 ³ / ₁₆ "	97 ¹ / ₁₆ "	97 ⁵ / ₁₆ "	98 ³ / ₁₆ "
84"	100 ³ / ₁₆ "	100 ⁵ / ₁₆ "	101 ³ / ₁₆ "	102 ³ / ₁₆ "
All FrameSaver Frame Doors with 712 or 713 Transoms				
80"	96 ³ / ₁₆ "	97 ¹⁵ / ₁₆ "	97 ¹ / ₁₆ "	98 ³ / ₁₆ "
84"	100 ³ / ₁₆ "	100 ¹⁵ / ₁₆ "	101 ¹ / ₁₆ "	102 ³ / ₁₆ "
All FrameSaver Frame Doors with 516 Transoms				
80"	99 ³ / ₄ "	100 ¹ / ₂ "	101"	101 ³ / ₄ "
84"	103 ³ / ₄ "	104 ¹ / ₂ "	105"	105 ³ / ₄ "
All FrameSaver Frame Doors with 532 Transoms				
80"	114 ³ / ₁₆ "	115 ¹⁵ / ₁₆ "	116 ³ / ₁₆ "	116 ³ / ₁₆ "
84"	118 ³ / ₁₆ "	119 ¹⁵ / ₁₆ "	119 ⁷ / ₁₆ "	120 ³ / ₁₆ "

- To calculate the Unit Size Height for FrameSaver frame outswing doors, deduct ⁷/₁₆" from the sizes shown above
- To calculate the Brickmold to Brickmold Height for FrameSaver frame outswing doors, deduct ⁵/₁₆" from the sizes shown above

WIDTH MEASUREMENTS				
Standard Size	Frame Rabbet Opening Size	Unit Size	Rough Opening	Brickmold to Brickmold
Single Door				
24"	24 ¹ / ₁₆ "	25 ⁵ / ₁₆ "	26"	28 ¹ / ₁₆ "
28"	28 ¹ / ₁₆ "	29 ⁵ / ₁₆ "	30"	32 ¹ / ₁₆ "
30"	30 ¹ / ₁₆ "	31 ¹ / ₁₆ "	32"	34 ¹ / ₁₆ "
32"	32 ¹ / ₁₆ "	33 ¹ / ₁₆ "	34"	36 ¹ / ₁₆ "
34"	34 ¹ / ₁₆ "	35 ¹ / ₁₆ "	36"	38 ¹ / ₁₆ "
36"	36 ¹ / ₁₆ "	37 ¹ / ₁₆ "	28"	40 ¹ / ₁₆ "
42"	42 ¹ / ₁₆ "	43 ¹ / ₁₆ "	44"	46 ¹ / ₁₆ "
French Door				
48"	48 ³ / ₈ "	50 ¹ / ₈ "	50 ³ / ₈ "	52 ³ / ₈ "
56"	56 ³ / ₈ "	58 ³ / ₈ "	58 ³ / ₈ "	60 ³ / ₈ "
60"	60 ³ / ₈ "	62 ¹ / ₈ "	62 ¹ / ₈ "	64 ³ / ₈ "
64"	64 ³ / ₈ "	66 ¹ / ₈ "	66 ¹ / ₈ "	68 ³ / ₈ "
68"	68 ³ / ₈ "	70 ¹ / ₈ "	70 ¹ / ₈ "	72 ³ / ₈ "
72"	72 ³ / ₈ "	74 ¹ / ₈ "	74 ¹ / ₈ "	76 ³ / ₈ "
84"	84 ³ / ₈ "	86 ¹ / ₈ "	86 ¹ / ₈ "	88 ³ / ₈ "

WIDTH MEASUREMENTS				
Standard Size	Frame Rabbet Opening Size	Unit Size	Rough Opening	Brickmold to Brickmold
Single Door w/ One 12" Sidelite				
30"	43 ³ / ₁₆ "	44 ¹ / ₁₆ "	45 ⁵ / ₁₆ "	47 ³ / ₁₆ "
32"	45 ⁵ / ₁₆ "	46 ¹ / ₁₆ "	47 ⁷ / ₁₆ "	49 ⁵ / ₁₆ "
34"	47 ⁷ / ₁₆ "	48 ¹ / ₁₆ "	49 ⁹ / ₁₆ "	51 ⁷ / ₁₆ "
36"	49 ⁹ / ₁₆ "	50 ¹ / ₁₆ "	51 ¹¹ / ₁₆ "	53 ⁹ / ₁₆ "
Single Door w/ One 14" Sidelite				
30"	45 ⁵ / ₁₆ "	46 ¹ / ₁₆ "	47 ⁷ / ₁₆ "	49 ⁵ / ₁₆ "
32"	47 ⁷ / ₁₆ "	48 ¹ / ₁₆ "	49 ⁹ / ₁₆ "	51 ⁷ / ₁₆ "
34"	49 ⁹ / ₁₆ "	50 ¹ / ₁₆ "	51 ¹¹ / ₁₆ "	53 ⁹ / ₁₆ "
36"	51 ¹¹ / ₁₆ "	52 ¹ / ₁₆ "	53 ¹³ / ₁₆ "	55 ¹¹ / ₁₆ "
Single Door w/ Two 12" Sidelites				
30"	56 ⁷ / ₁₆ "	58 ¹ / ₁₆ "	58 ¹ / ₁₆ "	60 ⁷ / ₁₆ "
32"	58 ⁹ / ₁₆ "	60 ³ / ₁₆ "	60 ³ / ₁₆ "	62 ⁹ / ₁₆ "
34"	60 ¹¹ / ₁₆ "	62 ⁵ / ₁₆ "	62 ⁵ / ₁₆ "	64 ¹¹ / ₁₆ "
36"	62 ¹³ / ₁₆ "	64 ⁷ / ₁₆ "	64 ⁷ / ₁₆ "	66 ¹³ / ₁₆ "
Single Door w/ Two 14" Sidelites				
30"	60 ⁷ / ₁₆ "	62 ¹ / ₁₆ "	62 ¹ / ₁₆ "	64 ⁷ / ₁₆ "
32"	62 ⁹ / ₁₆ "	64 ³ / ₁₆ "	64 ³ / ₁₆ "	66 ⁹ / ₁₆ "
34"	64 ¹¹ / ₁₆ "	66 ⁵ / ₁₆ "	66 ⁵ / ₁₆ "	68 ¹¹ / ₁₆ "
36"	66 ¹³ / ₁₆ "	68 ⁷ / ₁₆ "	68 ⁷ / ₁₆ "	70 ¹³ / ₁₆ "
Patio Units - Downsized (Standard Height = downsized height)				
60"	57 ¹ / ₁₆ "	59 ⁵ / ₁₆ "	60 ¹ / ₁₆ "	61 ¹ / ₁₆ "
64"	61 ¹ / ₁₆ "	63 ⁵ / ₁₆ "	64 ¹ / ₁₆ "	65 ¹ / ₁₆ "
68"	65 ¹ / ₁₆ "	67 ⁵ / ₁₆ "	68 ¹ / ₁₆ "	69 ¹ / ₁₆ "
72"	69 ¹ / ₁₆ "	71 ⁵ / ₁₆ "	72 ¹ / ₁₆ "	73 ¹ / ₁₆ "
90"	87 ¹ / ₁₆ "	88 ⁵ / ₁₆ "	89 ⁵ / ₁₆ "	91 ¹ / ₁₆ "
96"	93 ¹ / ₁₆ "	94 ⁵ / ₁₆ "	95 ⁵ / ₁₆ "	97 ¹ / ₁₆ "
102"	99 ¹ / ₁₆ "	100 ⁵ / ₁₆ "	101 ⁵ / ₁₆ "	103 ¹ / ₁₆ "
108"	105 ¹ / ₁₆ "	106 ⁵ / ₁₆ "	107 ⁵ / ₁₆ "	109 ¹ / ₁₆ "
Patio Units - Full Sized (Standard Height = full sized height)				
60"	60 ¹ / ₁₆ "	61 ⁵ / ₁₆ "	62 ⁵ / ₁₆ "	64 ¹ / ₁₆ "
64"	64 ¹ / ₁₆ "	65 ⁵ / ₁₆ "	66 ⁵ / ₁₆ "	68 ¹ / ₁₆ "
68"	68 ¹ / ₁₆ "	69 ⁵ / ₁₆ "	70 ⁵ / ₁₆ "	72 ¹ / ₁₆ "
72"	72 ¹ / ₁₆ "	73 ⁵ / ₁₆ "	74 ⁵ / ₁₆ "	76 ¹ / ₁₆ "
90"	90 ¹ / ₁₆ "	91 ⁵ / ₁₆ "	92 ¹ / ₂ "	94 ¹ / ₁₆ "
96"	96 ¹ / ₁₆ "	97 ⁵ / ₁₆ "	98 ¹ / ₂ "	100 ¹ / ₁₆ "
102"	102 ¹ / ₁₆ "	103 ⁵ / ₁₆ "	104 ¹ / ₂ "	106 ¹ / ₁₆ "
108"	108 ¹ / ₁₆ "	109 ⁵ / ₁₆ "	110 ¹ / ₂ "	112 ¹ / ₁₆ "

- For 10" sidelites, deduct 2" per sidelite from the 12" sidelite dimensions
- For 16" sidelites, add 2" per sidelite to the 14" sidelite dimensions
- Aluminum frame cladding will increase the Brickmold to Brickmold width by ¹/₄" and the height by ¹/₁₆"
- Sidelite units with FusionFrame or PermaTech composite frames are wider than the dimensions shown above. Add ¹/₈" per sidelite
- The brickmold width on outswing doors is ³/₁₆" more than shown

ENTRY DOOR SIZING INFORMATION

CUSTOM WIDTH AVAILABILITY

LEGACY™ SMOOTH STEEL DOORS	FRAMESAVER® FRAME		LEGACY TEXTURED STEEL DOORS	FRAMESAVER FRAME	
	Min	Max		Min	Max
001, 100DC, 101DC & 131DC Styles, 111DC, 114DC	24 7/16"	43 9/16"	001, 100DC, 101DC & 131DC Styles	24 7/16"	37 9/16"
112DC	29 5/16"	43 9/16"	350 Styles	31 7/8"	37 9/16"
113DC, 115DC, 116DC	33 3/4"	43 9/16"	006, 430 & 206 Styles	30 9/16"	37 9/16"
001S & 003S	32 15/16"	43 9/16"	440 & 240 Styles	33 1/16"	37 9/16"
002, 002C-437, 002-440 & 003	32 7/16"	37 9/16"	160 Sidelite Styles*	10"	37 9/16"
005S	32 9/16"	37 9/16"	439 & 400	32 15/16"	37 9/16"
003C	32 3/16"	37 9/16"	460	24 7/16"	37 9/16"
002S	32 3/4"	37 9/16"	160 Sidelite Styles*	10"	37 1/4"
460 Clear Glass Styles with 12", 14" or 18" x 64" glass	24 7/16"	29"	106, 130, 139 & 140	12"	15 3/8"
460 Clear Glass & Art Glass Styles**	30"	43 9/16"			
460 all Decorative Glass Styles**	32"	43 9/16"			
350 Styles	31 7/8"	43 9/16"	SIGNET® FIBERGLASS DOORS & SIDELITE STYLES	FRAMESAVER FRAME	
006, 400, 230, 206 & 410 Styles, 420DC-6P(4P), 419DC	30 7/16"	37 9/16"		Min	Max
430DC-F Clear Glass Styles with 14" or 18" x 36" glass	25 5/16"	29"	006, 430, 419 & 150	32 7/16"	37 9/16"
430 all Decorative Glass, 430 Clear Glass & Art Glass	30 9/16"	37 9/16"	002-440, 002C-437, 002-449, 003 & 460S	32 7/16"	37 9/16"
239	30 7/8"	37 9/16"	001C** & 003C**	32 7/16"	37 9/16"
439, 440 & 240 Styles	33 3/4"	37 9/16"	008P & 243 Door Styles	34 1/2"	37 9/16"
008, 009 & 110 Styles	32 3/8"	37 9/16"	440 & 460	33 1/4"	37 9/16"
130 Sidelite Styles*, 103M	12"	19 3/8"	420** & 449	33 3/16"	37 9/16"
140 Sidelite Styles*	12"	17 3/8"	130, 120 & 140 Sidelite Styles	12"	17 3/8"
160 Sidelite Styles*	10"	37 1/4"	160 Sidelite Styles	10"	37 1/4"

Height Reductions: Doors are always cutdown from the top of the door unless the size needed exceeds the maximum top cut for that door style.
Bottom cutdowns on Steel L-Frame doors will lower the lockset height.

Maximum Height Reductions: Legacy Smooth Steel Flush Door Styles: -20" maximum cutdown
All other Flush Door Styles: - 5" Maximum from top - 6" Maximum from bottom
All Embossed Door Styles: - 2 1/2" Maximum from top - 5" Maximum from bottom
(Maximum Cut information is based on 80" doors and is not applicable to all styles
Call Customer Service for details on specific Door Styles and/or sizes)

* Custom size Steel Sidelites are considered special order and require additional pricing. Please contact customer service for pricing.

** 460 Minimum and Maximum sizes also apply to 460 style sidelites. Use sidelite upcharge pricing.

Note: Custom Width doors and sidelites are available in 1/8" increments between the minimum and maximum size ranges listed above.

Sizes listed in the above table are "Unit Sizes".

To calculate Unit Size, Rough Opening Size, etc. of a custom width door, calculate the difference between the custom width Nominal Size and the closest standard width Nominal Size and apply the difference to the Unit Size, Rough Opening Size, etc.

FIRE-RATED ENTRY DOOR OPTIONS

Note: Fire-rated doors are not ENERGY STAR® Certified products. Fire-Rated French Doors are not available.

FIRE-RATED DOOR PACKAGES

20-MINUTE FIRE-RATED DOORS

LEGACY™ STEEL

- Standard sizes are listed by door styles
- FrameSaver or PermaTech™ composite frame
- Custom Heights and Widths are available. Maximum size available is 36" x 84"
- 20-minute fire-label on the door slab and frame
- Fire-rated weatherstripping
- 2 Spring Bommer hinges
- Standard ZAC threshold or ADA sill
- Max glass size: 100 sq. in.

SIGNET® FIBERGLASS

- Styles: 001, 002-440, 003, 006, and 002C-449
- Slab Construction: Special medium-density solid core for a 20-minute fire-rating
- Standard sizes are listed by door styles
- FrameSaver or PermaTech composite frame
- Custom Heights between 80" and 84" and Custom Widths between 32" and 36" are available. Maximum size available is 36" x 84"
- 20-minute fire-label on the door slab and frame
- Fire-rated weatherstripping
- 2 Spring Bommer hinges
- Standard ZAC threshold or ADA sill
- Signet fire-rated doors require 7 week lead time

90-MINUTE FIRE-RATED DOORS

LEGACY STEEL

- Custom Heights are available on Legacy doors with a bottom cut only
- Custom Widths are not available
- 90-minute fire-label on the door slab and frame
- Fire-rated weatherstripping
- 2 Spring Bommer hinges

Masonry Steel Frame

- Standard Sizes: 30", 32", 34" & 36" x 80" & 84" (not all door styles available in all sizes)
- Saddle threshold

Drywall Steel Frame

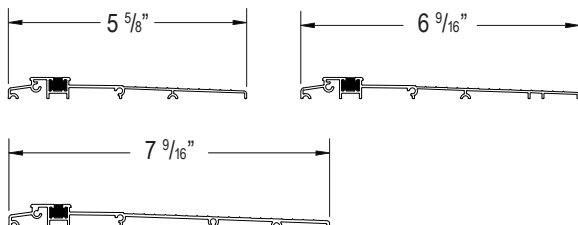
- Standard Sizes: 30", 32" & 36" x 80" (not all door styles available in all sizes)
- Saddle threshold

Adjustable Steel Frame

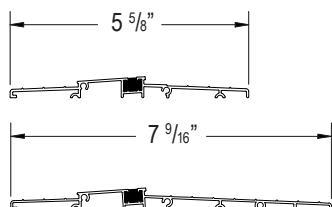
- Standard Sizes: 32" & 36" x 80"
- Standard ZAC threshold or ADA sill

90-minute fire-rated doors are only available in Legacy Steel

INSWING ADA THRESHOLDS



OUTSWING ADA THRESHOLDS



Threshold not required, but bottom margin must be $\leq \frac{3}{4}$ "

HARDWARE REQUIREMENTS

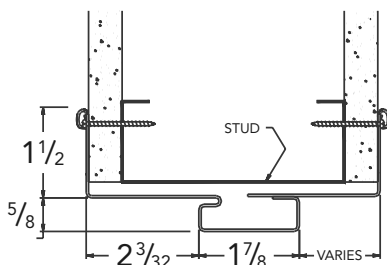
- ProVia provided hardware is fire-rated
- Doors must be self-closing and self-latching, no hold-open closers or kick stops allowed
- Spring Bommer hinges and/or a closer are required
- Panic hardware (for commercial applications), deadbolts and peepsites are available
- Push/pull hardware is not permitted

ENTRY DOOR SPECIALTY STEEL FRAMES

ADJUSTABLE STEEL FRAME

2 piece adjustable depth steel L-frame for wall depths from:
 4 1/2" to 5 1/2"
 5 1/2" to 6 1/2"
 6 1/2" to 7 1/2"

Includes a ZAC threshold.
 Optional ADA threshold also available.



When ordering, specify frame type:

Adjustable, Masonry or Drywall and options desired (threshold, anchors).

ADJUSTABLE STEEL FRAME PACKAGES

Single 32" & 36" x 80"

MASONRY STEEL FRAME PACKAGES

(recommended for exterior applications)

Single 30", 32", 34", 36", 42" x 80", 84"

French 60", 64", 72" x 80", 84"

DRYWALL STEEL FRAME PACKAGES

(recommended for interior applications)

Single 30", 32", 36", 42" x 80"

French 60", 64", 72" x 80"

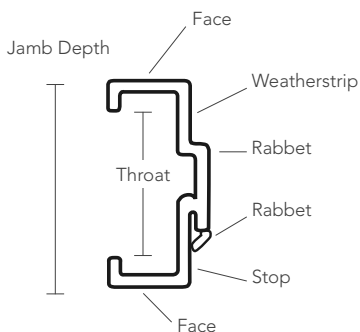
MASONRY & DRYWALL STEEL FRAME

5 3/4" jamb depth
 4 3/4" throat
 2" face
 18-gauge steel

Includes Saddle Threshold



MASONRY FRAME

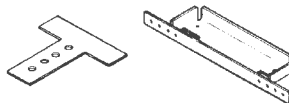


SADDLE THRESHOLD

(Available with Masonry and Drywall Steel Frames)

ANCHORS

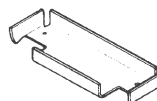
(not applicable on Adjustable and Drywall Steel Frames)



Masonry or Wood Stud Anchors
 (6 recommended per frame)

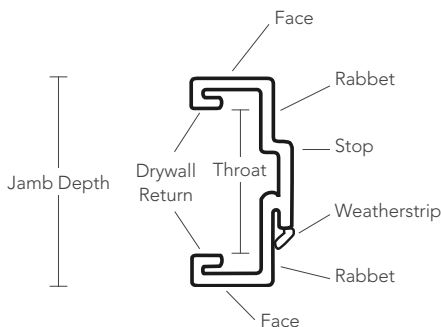


Existing Opening Anchors
 (4 recommended per frame)



Metal Stud Anchors
 (6 recommended per frame)

DRYWALL FRAME



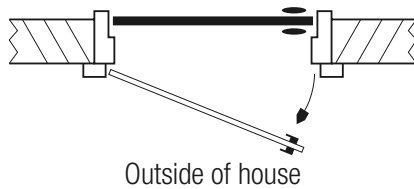
FRAME TYPES	HEIGHT			
	80" NOMINAL		84" NOMINAL	
	Unit Height	Rough Opening	Unit Height	Rough Opening
Adjustable	81 1/8"	81 1/2"	85 1/8"	85 1/2"
18 ga Dryall	82"	80 3/4"	86"	84 3/4"
18 ga Masonry	82"	82 1/4"	86"	86 1/4"
16 ga Dryall	82"	80 3/4"	86"	83 1/4"
16 ga Masonry	82"	82 1/4"	86"	86 1/4"

Note: Fire-rated doors or doors with Specialty Steel Frames are not Energy Star certified products.

NOMINAL SIZES FRAME TYPES	30"		32"		34"		36"		42"		60"		64"		72"	
	Unit Ht	Rough Opening	Unit Ht	Rough Opening	Unit Ht	Rough Opening	Unit Ht	Unit Ht	Unit Ht	Rough Opening	Unit Ht	Rough Opening	Unit Ht	Rough Opening	Unit Ht	Rough Opening
Adjustable	30 3/8"	31"	32 3/8"	33"	34 3/8"	35"	36 3/8"	37"	42 3/8"	43"	N/A	N/A	N/A	N/A	N/A	N/A
18 ga Dryall	34"	31 1/2"	36"	33 1/2"	38"	35 1/2"	40"	37 1/2"	46"	43 1/2"	40"	37 1/2"	68 5/8"	68 7/8"	76 5/8"	76 7/8"
18 ga Masonry	34"	34 3/8"	36"	36 3/8"	38"	38 3/8"	40"	40 3/8"	46"	46 3/8"	40"	40 3/8"	68 5/8"	66 3/4"	76 5/8"	74 3/4"
16 ga Dryall	34"	34 3/8"	36"	36 3/8"	38"	38 3/8"	40"	40 3/8"	46"	46 3/8"	40"	40 3/8"	68"	66"	76"	74"
16 ga Masonry	34"	30 1/2"	36"	33 1/2"	38"	35 1/2"	40"	37 1/2"	46"	43 1/2"	40"	37 1/2"	68"	68 1/4"	76"	76 1/4"

STORM DOOR INFORMATION

FIG. 1 Left Hinged Storm Door



PRE-HUNG DOORS

When ordering pre-hung doors, you must indicate "Hinge Left" or "Hinge Right". This is determined by facing the door from the outside and deciding on which side you want the hinges (Fig. 1). Hardware holes are not drilled unless specified except for mortise handles. The pre-hung option is not available for Expander or French Doors. Prehanging is available at no additional charge.

NON PRE-HUNG DOORS

Non Pre-Hung doors are shipped with Z-bar unattached. Hardware installation holes are not drilled. Determination of hinge side can be made in the field. Doors ordered with mortise hardware will be prepped for hardware and the hinge side must be specified when ordering. Right hand handles are shipped with non pre-hung doors.

EXPANDER DOORS

Expander doors are designed for inset installation when there is no exterior surface area to attach a normal Z-bar. You should measure the same as you would for a regular Z-bar door and the factory will calculate the door size needed to accommodate the expanders. Expander doors come standard with piano hinges.

INSWING DOORS

Inswing Superview™ doors require the Slimline Z-bar with the 178 Black Inswing Handleset. Inswing Deluxe™/Duraguard™/Decorator™/Spectrum™ doors can be configured using either the Standard Z-bar or Slimline Z-bar with single-mortise or double-mortise handle options.

SPECTRUM™ HINGE AND BOTTOM EXPANDER DETAILS

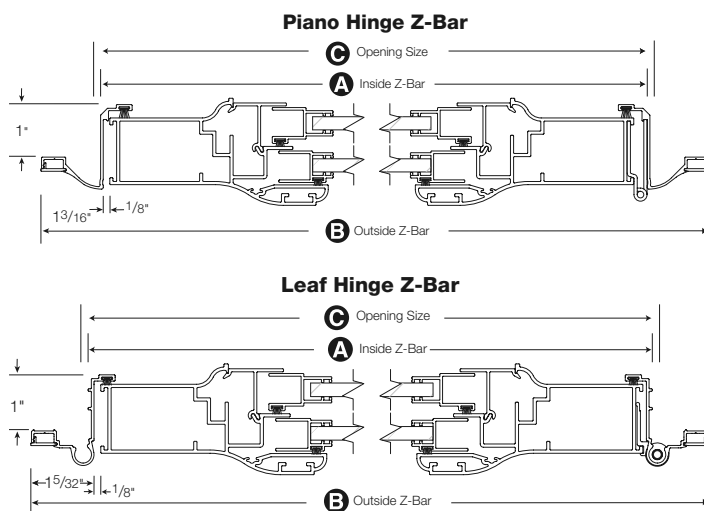


FIG. 2 Z-BAR BUILDOUT

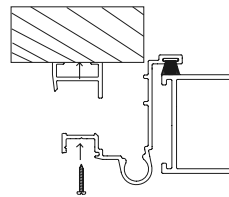
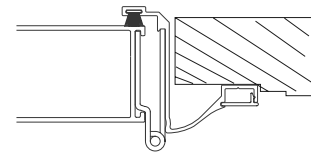


FIG. 3 STANDARD Z-BAR



HANDLESET PREP

When ordered, handle holes are drilled 39" from the bottom to the center drill hole for all series doors. If specified, handle holes can be drilled at heights other than the 39" standard height. Check to make sure this will not interfere with the entry door handle (especially inside lever rotation). Handle prep is required when mortise handles are ordered.

FRENCH DOOR CONVERSION KIT

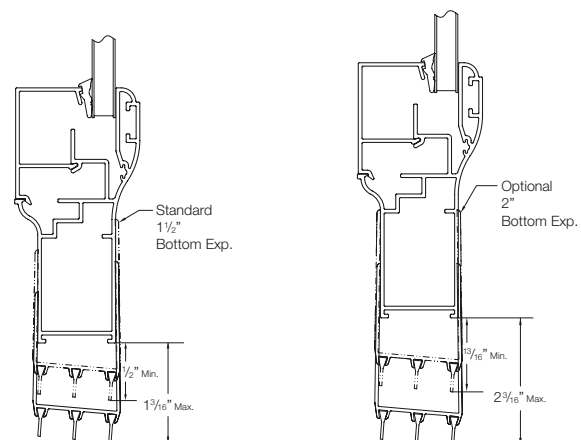
A French door conversion kit comes standard with a continuous Z-bar header, two hinge side Z-bars, one astragal bar and two slide bolts. Two nominal 36" doors will fit an opening 71-1/2" to 72-13/16" wide. To order French doors, quantity must be 1 set per rough opening size. Doors will be shipped with the hinge side Z-Bar attached (1 left and 1 right). Right and left hand handles are shipped with French doors.

Z-BAR BUILDOUT CONVERSION KIT

A Z-Bar Buildout Conversion Kit is required when the trim around an entry door is 3/4" in depth. (Fig.2) Standard Z-Bars require 1" or more of depth to install (Fig. 3). If you require a Z-Bar Buildout, you must clearly indicate that in entryLINK.

SPECIAL MULLION LOCATION

To order a special mullion location, indicate the desired dimension from the top of the door slab to the top of the mullion. Not available on Superview models or any models with the optional pet door.



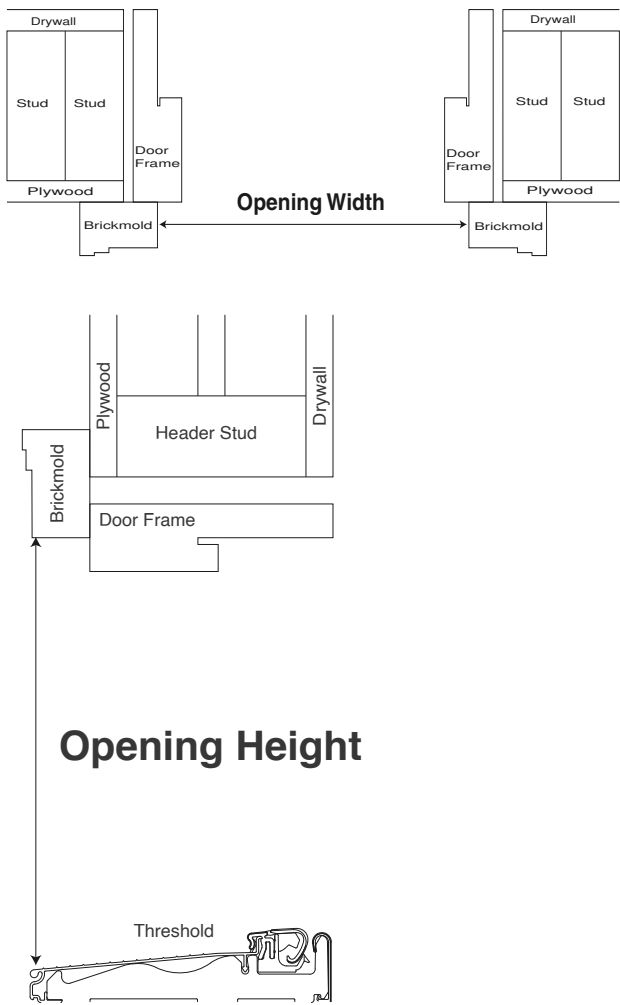
Standard 1-1/2" Bottom Expander
Minimum: 5/16" + 3/16" for vinyl sweeps = 1/2"
Maximum: 1" + 3/16" for vinyl sweeps = 1-3/16"

Optional 2" Bottom Expander
Minimum: 5/8" + 3/16" for vinyl sweeps = 13/16"
Maximum: 2" + 3/16" for vinyl sweeps = 2-3/16"

STORM DOOR INFORMATION

MEASURING INSTRUCTIONS

Measure the opening into which the Storm Door will be installed, this is called the Opening Size. Due to the many size variables between the various Z-bar types, it is strongly recommended that all doors be ordered as Opening Size. The following tables and drawings indicate standard allowances and are applicable for all Spectrum™, Decorator™, Deluxe™ and DuraGuard™ models.



STANDARD SIZES

Standard size doors should be ordered as nominal size.

CUSTOM SIZES

Custom size doors should be ordered as opening size. Doors ordered with a fractional size will be manufactured on 1/8" increments on both width and height to fit custom size openings. To figure slab size on custom size Z-bar doors, deduct 7/8" from the opening width and height. For custom size expander type doors deduct 1 3/8" from opening width and 1-1/2" from opening height.

WIDTH

Take three measurements from the inside of the brickmold; top, center and bottom. Use the smallest figure to the nearest 1/8".

HEIGHT

Measure the height from the top of the opening to the sill. Measure both sides and use the smallest figure to the nearest 1/8". For French doors, also measure the center height.

STANDARD SIZING CHART			
NOMINAL WIDTH	NOMINAL WIDTH		
	Min	-	Max
30"	29 3/4"	-	30 1/8"
32"	31 3/4"	-	32 1/8"
36"	35 3/4"	-	36 1/8"
HEIGHT		-	
80"	79 1/16"	-	80 1/16"
81"	80 3/4"	-	81 7/16"

A 2" painted bottom expander will be provided for z-bar type opening heights 80 3/4" through 81 7/16".

EXPANDER DOORS

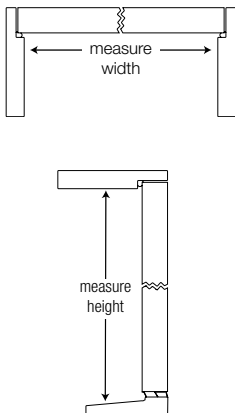
For Expander doors, measure door openings at 3 locations for width and height.

STANDARD SIZES

On a standard size unit, door slab is opening size minus (-) 7/8" on width and height.

CUSTOM SIZES

On a custom size unit, door slab is opening size minus (-) 1 3/8" on width and minus (-) 1 1/2" on height.

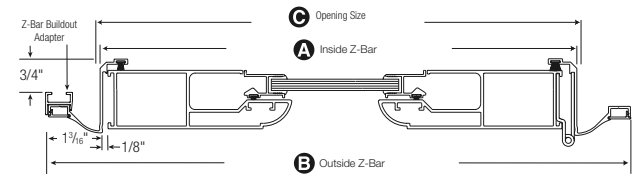


STANDARD SIZING CHART FOR EXPANDER DOORS			
NOMINAL WIDTH	OPENING SIZE RANGES		
	Min	-	Max
30"	29 7/8"	-	31 3/8"
32"	31 7/8"	-	33 3/8"
36"	35 7/8"	-	37 3/8"
HEIGHT		-	
80"	79 1/16"	-	81 1/8"

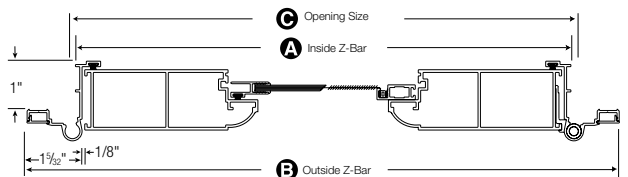
Do not use the above measurements to calculate slab size for custom size doors. See the Custom Sizes section in the Expander door information to the left.

- 80" doors come standard with a 1" bottom expander.
- Standard size 81" doors come standard with a 2" bottom expander.
- All "A" and "B" height dimensions for 80" doors reflect a fully collapsed bottom expander.
- All "A" and "B" height dimensions can be increased 1" by fully extending the bottom expander.
- Tip-to-tip "B" height dimensions reflect minimum finished size after field trimming.
- Z-bar legs are shipped 2" longer than Opening Size height and require field trimming.

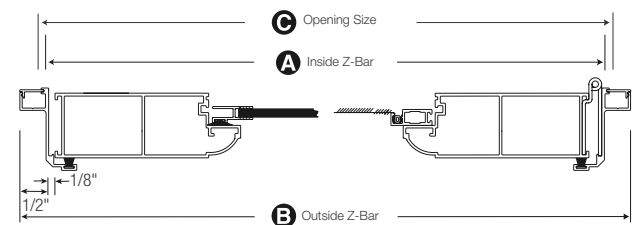
PIANO HINGE Z-BAR				
NOMINAL WIDTH	DOOR SLAB SIZE	A UNIT SIZE (INSIDE Z-BAR)	B TIP-TO-TIP SIZE (OUTSIDE Z-BAR)	C OPENING SIZE
30"	29 1/8"	29 3/8"	32"	30"
32"	31 1/8"	31 3/8"	34"	32"
36"	35 1/8"	35 3/8"	38"	36"
HEIGHT				
80"	79 1/8"	79 3/4"	80 7/8"	80"
81"	79 1/8"	*80 3/4"	*81 7/8"	81"



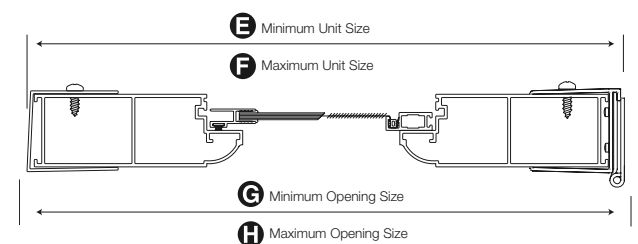
LEAF HINGE Z-BAR				
NOMINAL WIDTH	DOOR SLAB SIZE	A UNIT SIZE (INSIDE Z-BAR)	B TIP-TO-TIP SIZE (OUTSIDE Z-BAR)	C OPENING SIZE
30"	29 1/8"	29 1 1/32"	31 3/4"	30"
32"	31 1/8"	31 1 1/32"	33 3/4"	32"
36"	35 1/8"	35 1 1/32"	37 3/4"	36"
HEIGHT				
80"	79 1/8"	79 3/4"	80 7/8"	80"
81"	79 1/8"	*80 3/4"	*81 7/8"	81"



INSWING OR OUTSWING WITH SLIM LINE Z-BAR				
NOMINAL WIDTH	DOOR SLAB SIZE	A UNIT SIZE (INSIDE Z-BAR)	B TIP-TO-TIP SIZE (OUTSIDE Z-BAR)	C OPENING SIZE
30"	29 1/8"	29 7/8"	30 1 1/16"	30"
32"	31 1/8"	31 7/8"	32 1 1/16"	32"
36"	35 1/8"	35 7/8"	36 1 1/16"	36"
HEIGHT				
80"	79 1/8"	79 3/4"	80 1/4"	80"
81"	79 1/8"	*80 3/4"	*81 1/4"	81"



EXPANDER DOOR					
NOMINAL WIDTH	DOOR SLAB SIZE	E MINIMUM UNIT SIZE	F MAXIMUM UNIT SIZE	G MINIMUM OPENING SIZE	H MAXIMUM OPENING SIZE
30"	29 1/8"	29 7/8"	31 3/8"	29 7/8"	31 7/8"
32"	31 1/8"	31 7/8"	33 3/8"	31 7/8"	33 7/8"
36"	35 1/8"	35 7/8"	37 3/8"	35 7/8"	37 7/8"
HEIGHT					
80"	79 1/8"	79 1 1/16"	81 7/8"	79 1 1/16"	81 1 1/16"



* With 2" bottom expander extended by 1"

Do not use the above measurements to calculate slab size for custom size doors.



"To serve, by caring for details in ways others won't." It's not just our mission, but a way of letting our light shine every day at ProVia®. We continually strive to put these words into action by providing unmatched quality and service. The P-icon symbolizes each employee's commitment to devoting the utmost care, pride and quality into each building product we manufacture...it's The Professional Way.



At ProVia, we manufacture energy efficient products and exercise corporate environmental stewardship by recycling, reducing pollution emissions and much more. In fact, our company has received repeated awards from the Environmental Protection Agency such as Partner of the Year - Sustained Excellence for outstanding efforts in energy savings.



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