



OUT-SWING DOOR

DESIGN DATA

Special Sizes
Miscellaneous formulas



Special Size Frame Dimensions₁

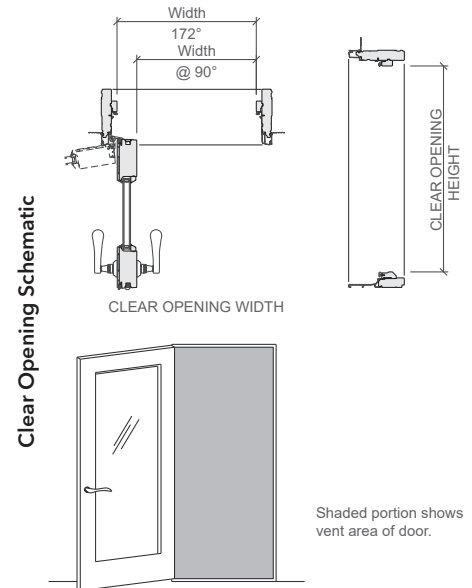
DOOR TYPE	NON-IMPACT GLAZING				HURRICANESHIELD® PRODUCTS WITH IMPACT-RESISTANT GLASS ₂			
	FRAME WIDTH		FRAME HEIGHT		FRAME WIDTH		FRAME HEIGHT	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
TRANSOMS	25-3/8" (645)	75" (1 905)	14" (356)	25" (635)	25-3/8" (645)	75" (1 905)	14" (356)	25" (635)
SIDLIGHTS (FIXED)	18" (457)	65" (457)	36" (914)	119-1/2" (3 035)	12" (305)	42" (1 067)	48" (1 219)	96" (2 438)
SINGLE DOORS	18" (457)	48" (1 219)	36" (914)	119-1/2" (3 035)	24" (610)	37-7/8" (962)	76-3/8" (1 940)	119-1/2" (3 035)
DOUBLE DOORS	36" (914)	96" (2 438)	36" (914)	119-1/2" (3 035)	48" (1 219)	75" (1 905)	73-3/8" (1 864)	119-1/2" (3 035)

Miscellaneous Formulas

	VISIBLE GLASS		ACTUAL GLASS	
	WIDTH	HEIGHT	WIDTH	HEIGHT
TRANSOMS – FIXED FRAME DIRECT SET	FW - 3-1/4"	FH - 3-1/4"	FW - 2"	FH - 2"
TRANSOMS – FIXED CASEMENT	FW - 5-3/4"	FH - 5-3/4"	FW - 4-3/8"	FH - 4-3/8"
TRANSOMS – WIDE STYLE CASEMENT	FW - 11-5/8"		FW - 10-1/4"	
SIDLIGHTS (FIXED)	FW - 6-5/8"	FH - 15-3/4"	FW - 5-5/8"	FH - 4-3/8"
SINGLE DOORS	FW - 11-5/8"		FW - 10-5/8"	
DOUBLE DOORS	(FW/2) - 11-1/4"		(FW/2) - 10-1/4"	

Clad and Wood Clear Opening Dimensions

	CLAD AND WOOD	
	WIDTH	HEIGHT
CLEAR OPENING (@ 90°)	SINGLE DOOR	FW - 5-3/8"
	DOUBLE DOORS (ACTIVE/SINGLE PANEL)	(FW / 2) - 5"
	DOUBLE DOORS (BOTH PANELS)	(FW / 2) - 7-7/16"
CLEAR OPENING (@ 172°)	SINGLE DOOR	FW - 3-5/16"
	DOUBLE DOORS (ACTIVE/SINGLE PANEL)	(FW / 2) - 2-15/16"
	DOUBLE DOORS (BOTH PANELS)	(FW / 2) - 3-15/16"



FW = Frame Width, FH = Frame Height

(1) Available within size range shown.

(2) Rectangular Units Only

Keep frame dimensions to the nearest 1/8" increment.



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OUT-SWING DESIGN DATA

	Unit	Clear Opening (Inches)				Vent Area Ft ²	Vent Area (ADA) Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm) Tempered	Performance Class & Grade ³
		Width ¹		Standard Sill Unit Height	ADA Sill Unit Height ²					
		170°	90°							
6' 7-1/2" DOORS	2680 F	-	-	-	-	-	-	6.1	3	R55/R70
	3080 F	-	-	-	-	-	-	8.1	3	R55/R70
	3480 F	-	-	-	-	-	-	9.7	3	R55/R70
	3680 F	-	-	-	-	-	-	10.8	3	R55/R70
	3880 F	-	-	-	-	-	-	11.6	3	R55/R70
	2680 L/R	22-1/16	20	76-1/4	77-7/16	11.3	11.5	6.1	3	LC55/LC70
	3080 L/R	26-11/16	24-5/8	76-1/4	77-7/16	13.8	14.0	8.1	3	LC55/LC70
	3480 L/R	30-3/16	28-1/8	76-1/4	77-7/16	15.6	15.9	9.7	3	LC55/LC70
	3680 L/R	32-11/16	30-5/8	76-1/4	77-7/16	17.0	17.2	10.8	3	LC55/LC70
	3880 L/R	34-9/16	32-1/2	76-1/4	77-7/16	17.9	18.2	11.6	3	LC55/LC70
	5080 PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	76-1/4	77-7/16	24.5	24.9	12.2	3	LC55/LC70
	6080 PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	76-1/4	77-7/16	29.4	29.9	16.3	3	LC55/LC70
	6780 PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	76-1/4	77-7/16	33.1	33.7	19.4	3	LC55/LC70
	7280 PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	76-1/4	77-7/16	35.8	36.3	21.6	3	LC55/LC70
	7580 PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	76-1/4	77-7/16	37.7	38.4	23.2	3	LC55/LC70
6' 10" DOORS	3082 F	-	-	-	-	-	-	8.4	3	R55/R70
	3682 F	-	-	-	-	-	-	11.1	3	R55/R70
	2682 L/R	22-1/16	20	78-1/4	79-7/16	11.6	11.8	6.3	3	LC55/LC70
	3082 L/R	26-11/16	24-5/8	78-1/4	79-7/16	14.2	14.4	8.4	3	LC55/LC70
	3482 L/R	30-3/16	28-1/8	78-1/4	79-7/16	16.0	16.3	10.0	3	LC55/LC70
	3682 L/R	32-11/16	30-5/8	78-1/4	79-7/16	17.4	17.7	11.1	3	LC55/LC70
	3882 L/R	34-9/16	32-1/2	78-1/4	79-7/16	18.4	18.7	12.0	3	LC55/LC70
	5082 PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	78-1/4	79-7/16	25.2	25.6	12.6	3	LC55/LC70
	6082 PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	78-1/4	79-7/16	30.2	30.7	16.8	3	LC55/LC70
	6782 PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	78-1/4	79-7/16	34.0	34.5	20.0	3	LC55/LC70
	7282 PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	78-1/4	79-7/16	36.7	37.3	22.3	3	LC55/LC70
7582 PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	78-1/4	79-7/16	38.7	39.3	24.0	3	LC55/LC70	

(-) = Not applicable

(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.

(2) Water resistance is 0 psf for units with a low profile sill.

(3) Maximum performance when glazed with the appropriate glass thickness. Second number indicates Performance Upgrade Class and Grade, Performance upgrade requires specific installation methods to meet the stated performance.

All doors and sidelights are glazed with tempered glass.



OUT-SWING DOOR

DESIGN DATA
Wood and Aluminum-Clad Exteriors



OUT-SWING DESIGN DATA

	Unit	Clear Opening (Inches)				Vent Area Ft ²	Vent Area (ADA) Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm) Tempered	Performance Class & Grade ³
		Width ¹		Standard Sill Unit Height	ADA Sill Unit Height ²					
		170°	90°							
7' 2" DOORS	3086 F	–	–	–	–	–	–	9.0	3	R55/R70
	3686 F	–	–	–	–	–	–	11.9	3	R55/R70
	2686 L/R	22-1/16	20	82-3/4	83-15/16	12.3	12.5	6.7	3	LC55/LC70
	3086 L/R	26-11/16	24-5/8	82-3/4	83-15/16	15.0	15.2	9.0	3	LC55/LC70
	3486 L/R	30-3/16	28-1/8	82-3/4	83-15/16	17.0	17.2	10.7	3	LC55/LC70
	3686 L/R	32-11/16	30-5/8	82-3/4	83-15/16	18.4	18.7	11.9	3	LC55/LC70
	3886 L/R	34-9/16	32-1/2	82-3/4	83-15/16	19.5	19.8	12.8	3	LC55/LC70
	5086 PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	82-3/4	83-15/16	26.6	27.0	13.4	3	LC55/LC70
	6086 PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	82-3/4	83-15/16	31.9	32.4	17.9	3	LC55/LC70
	6786 PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	82-3/4	83-15/16	36.0	36.5	21.3	3	LC55/LC70
8' 0" DOORS	7286 PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	82-3/4	83-15/16	38.8	39.4	23.8	3	LC55/LC70
	7586 PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	82-3/4	83-15/16	41.0	41.6	25.6	3	LC55/LC70
	3096 F	–	–	–	–	–	–	10.2	3	R55/R70
	3696 F	–	–	–	–	–	–	13.5	3	R55/R70
	2696 L/R	22-1/16	20	92-1/4	93-7/16	13.7	13.9	7.6	3	LC55/LC70
	3096 L/R	26-11/16	24-5/8	92-1/4	93-7/16	16.7	16.9	10.2	3	LC55/LC70
	3496 L/R	30-3/16	28-1/8	92-1/4	93-7/16	18.9	19.2	12.1	3	LC55/LC70
	3696 L/R	32-11/16	30-5/8	92-1/4	93-7/16	20.5	20.8	13.5	3	LC55/LC70
	3896 L/R	34-9/16	32-1/2	92-1/4	93-7/16	21.7	22.0	14.5	3	LC55/LC70
	5096 PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	92-1/4	93-7/16	29.7	30.1	15.2	3	LC55/LC70
10' 0" DOORS	6096 PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	92-1/4	93-7/16	35.6	36.1	20.4	3	LC55/LC70
	6796 PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	92-1/4	93-7/16	40.1	40.6	24.2	3	LC55/LC70
	7296 PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	92-1/4	93-7/16	43.3	43.9	27.0	3	LC55/LC70
	7596 PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	92-1/4	93-7/16	45.7	46.3	29.1	3	LC55/LC70
	30120 F	–	–	–	–	–	–	13.2	5	R50/R50
	36120 F	–	–	–	–	–	–	17.6	5	R50/R50
	26120 L/R	22-1/16	20	116-1/4	117-7/16	17.3	17.5	9.9	5	LC40/LC50
	30120 L/R	26-11/16	24-5/8	116-1/4	117-7/16	21.0	21.3	13.2	5	LC40/LC50
	34120 L/R	30-3/16	28-1/8	116-1/4	117-7/16	23.9	24.1	15.8	5	LC40/LC50
	36120 L/R	32-11/16	30-5/8	116-1/4	117-7/16	25.9	26.2	17.6	5	LC40/LC50
10' 0" DOORS	38120 L/R	34-9/16	32-1/2	116-1/4	117-7/16	27.4	27.7	18.9	5	LC40/LC50
	50120 PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	116-1/4	117-7/16	37.5	37.9	19.8	5	LC40/LC50
	60120 PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	116-1/4	117-7/16	44.9	45.4	26.5	5	LC40/LC50
	67120 PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	116-1/4	117-7/16	50.5	51.1	31.5	5	LC40/LC50
	72120 PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	116-1/4	117-7/16	54.6	55.2	35.1	5	LC40/LC50
	75120 PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	116-1/4	117-7/16	57.6	58.2	37.8	5	LC40/LC50

(-) = Not applicable

(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.

(2) Water resistance is 0 psf for units with a low profile sill.

(3) Maximum performance when glazed with the appropriate glass thickness. Second number indicates Performance Upgrade Class and Grade, Performance upgrade requires specific installation methods to meet the stated performance.

All doors and sidelights are glazed with tempered glass.

To convert areas to square meters (m²), multiply square feet by 0.0929.



OUT-SWING DOOR

DESIGN DATA

Wood and Aluminum-Clad Exteriors



TRANSOMS – FIXED FRAME DIRECT SET

Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)			Performance Class & Grade ₂
		Dual-Pane Glazing		Triple-Pane Glazing	
		Annealed	Tempered	Annealed or Tempered	
2617	2.1	3	3	3	CW90
2625	3.3	3	3	3	CW90
3017	2.6	3	3	3	CW90
3025	4.0	3	3	3	CW90
3417	2.9	3	3	3	CW90
3425	4.6	3	3	3	CW90
3617	3.1	3	3	3	CW90
3625	4.9	3	3	3	CW90
3817	3.3	3	3	3	CW90
3825	5.2	3	3	3	CW90
5017	4.5	3	3	3	CW90
5025	7.1	3	3	3	CW75
6017	5.3	3	3	3	CW90
6025	8.5	3	3	3	CW55
6717	6.0	3	3	3	CW60
6725	9.5	3	3	3	CW50
7217	6.5	3	3	3	CW60
7225	10.3	3	3	3	CW45
7517	6.8	3	3	3	CW60
7525	10.8	3	3	3	CW45

TRANSOMS – FIXED CASEMENT

2617	1.5	2.5	3	3	CW50
2625	2.6	2.5	3	3	CW50
3017	1.9	2.5	3	3	CW50
3025	3.2	2.5	3	3	CW50
3417	2.2	2.5	3	3	CW50
3425	3.7	2.5	3	3	CW50
3617	2.4	2.5	3	3	CW50
3625	4.0	2.5	3	3	CW50
3817	2.5	2.5	3	3	CW50
3825	4.3	2.5	3	3	CW50
5017	3.5	2.5	3	3	CW50
5025	5.9	2.5	3	3	CW50
6017	4.2	2.5	3	3	CW50
6025	7.2	2.5	3	3	CW45/CW50
6717	4.7	2.5	3	3	R15 ₁
6725	8.1	2.5	3	3	R15 ₁
7217	5.1	–	3	3	R15 ₁
7225	8.8	2.5	3	3	R15 ₁
7517	5.4	–	3	3	R15 ₁
7525	9.3	2.5	3	3	R15 ₁

TRANSOMS – WIDE STILE CASEMENT

Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)			Performance Class & Grade ₂
		Dual-Pane Glazing		Triple-Pane Glazing	
		Annealed	Tempered	Annealed or Tempered	
2617	1.1	2.5	3	3	CW50
2625	1.8	2.5	3	3	CW50
3017	1.4	2.5	3	3	CW50
3025	2.5	2.5	3	3	CW50
3417	1.7	2.5	3	3	CW50
3425	2.9	2.5	3	3	CW50
3617	1.9	2.5	3	3	CW50
3625	3.3	2.5	3	3	CW50
3817	2.1	2.5	3	3	CW50
3825	3.5	2.5	3	3	CW50
5017	3.0	2.5	3	3	CW50
5025	5.1	2.5	3	3	CW50
6017	3.7	2.5	3	3	CW50
6025	6.4	2.5	3	3	CW50
6717	4.3	2.5	3	3	R15 ₁
6725	7.3	2.5	3	3	R15 ₁
7217	4.7	2.5	3	3	R15 ₁
7225	8.0	2.5	3	3	R15 ₁
7517	5.0	–	3	3	R15 ₁
7525	8.5	2.5	3	3	R15 ₁

SIDELIGHTS

1880	5.0	–	3	3	R55/R70
1882	5.2	–	3	3	R55/R70
1886	5.5	–	3	3	R55/R70
1896	6.3	–	3	3	R55/R70

(–) = Not applicable

(1) Units are not AAMA/WDMA performance certified. Units are engineered to meet the performance class and grade shown.

(2) Maximum performance when glazed with the appropriate glass thickness. Second number indicates Performance Upgrade Class and Grade, Performance upgrade requires specific installation methods to meet the stated performance.

All doors and sidelights are glazed with tempered glass.

To convert areas to square meters (m²), multiply square feet by 0.0929.