OUT-SWING DOOR

DESIGN DATA

Wood and Aluminum-Clad Wood

OUT-SWING FRENCH DESIGN DATA

	Unit		Clear Opening (Inches) Width [1] 170°	Clear Opening (Inches) Width [1] 90°	Standard Sill Unit Height	ADA Sill Unit Height [2]	Vent Area Ft²	Vent Area (ADA) Ft²	Visible Glass Ft²	Standard Glass Thickness (mm) Tempered Dual-Pane Glazing	Standard Glass Thickness (mm) Tempered Triple-Pane Glazing	Performance Class & Grade [3]
6' 7-1/2" DOORS	2680	F	–	–	76	77-1/4	–	–	6.1	3	3	R55/R70
	3080	F	–	–	76	77-1/4	–	–	8.1	3	3	R55/R70
	3480	F	–	–	76	77-1/4	–	–	9.7	3	3	R55/R70
	3680	F	–	–	76	77-1/4	–	–	10.8	3	3	R55/R70
	3880	F	–	–	76	77-1/4	–	–	11.6	3	3	R55/R70
	2680	L/R	21-1/2	19-13/16	76	77-1/4	11.3	11.5	6.1	3	3	LC55/LC70
	3080	L/R	26-1/8	24-7/16	76	77-1/4	13.8	14.0	8.1	3	3	LC55/LC70
	3480	L/R	29-5/8	27-15/16	76	77-1/4	15.6	15.9	9.7	3	3	LC55/LC70
	3680	L/R	32-1/8	30-7/16	76	77-1/4	17.0	17.2	10.8	3	3	LC55/LC70
	3880	L/R	34	32-5/16	76	77-1/4	17.9	18.2	11.6	3	3	LC55/LC70
	5080	PA/AP	46-1/2 / 21-7/8	41-5/8 / 19-13/16	76	77-1/4	24.5	24.9	12.2	3	3	LC55/LC70
	6080	PA/AP	55-3/4 / 26-1/2	50-7/8 / 24-7/16	76	77-1/4	29.4	29.9	16.3	3	3	LC55/LC70
	6780	PA/AP	62-3/4 / 30	57-7/8 / 27-15/16	76	77-1/4	33.1	33.7	19.4	3	3	LC55/LC70
	7280	PA/AP	67-3/4 / 32-1/2	62-7/8 / 30-7/16	76	77-1/4	35.8	36.3	21.6	3	3	LC55/LC70
	7580	PA/AP	71-1/2 / 34-3/8	66-5/8 / 32-5/16	76	77-1/4	37.7	38.4	23.2	3	3	LC55/LC70
6' 8" DOORS	3081	F	–	–	76-5/8	77-7/8	–	–	8.2	3	3	R55/R70
	3681	F	–	–	76-5/8	77-7/8	–	–	10.9	3	3	R55/R70
	2681	L/R	21-1/2	19-13/16	76-5/8	77-7/8	11.4	11.6	6.1	3	3	LC55/LC70
	3081	L/R	26-1/8	24-7/16	76-5/8	77-7/8	13.9	14.1	8.2	3	3	LC55/LC70
	3481	L/R	29-5/8	27-15/16	76-5/8	77-7/8	15.8	16.0	9.8	3	3	LC55/LC70
	3681	L/R	32-1/8	30-7/16	76-5/8	77-7/8	17.1	17.4	10.9	3	3	LC55/LC70
	3881	L/R	34	32-5/16	76-5/8	77-7/8	18.1	18.4	11.7	3	3	LC55/LC70
	5081	PA/AP	46-1/2 / 21-7/8	41-5/8 / 19-13/16	76-5/8	77-7/8	24.7	25.1	12.3	3	3	LC55/LC70
	6081	PA/AP	55-3/4 / 26-1/2	50-7/8 / 24-7/16	76-5/8	77-7/8	29.7	30.1	16.4	3	3	LC55/LC70
	6781	PA/AP	62-3/4 / 30	57-7/8 / 27-15/16	76-5/8	77-7/8	33.4	33.9	19.6	3	3	LC55/LC70
	7281	PA/AP	67-3/4 / 32-1/2	62-7/8 / 30-7/16	76-5/8	77-7/8	36.1	36.6	21.8	3	3	LC55/LC70
	7581	PA/AP	71-1/2 / 34-3/8	66-5/8 / 32-5/16	76-5/8	77-7/8	38.0	38.7	23.5	3	3	LC55/LC70
6' 10" DOORS	3082	F	–	–	78	79-1/4	–	–	8.4	3	3	R55/R70
	3682	F	–	–	78	79-1/4	–	–	11.1	3	3	R55/R70
	2682	L/R	21-1/2	19-13/16	78	79-1/4	11.6	11.8	6.3	3	3	LC55/LC70
	3082	L/R	26-1/8	24-7/16	78	79-1/4	14.2	14.4	8.4	3	3	LC55/LC70
	3482	L/R	29-5/8	27-15/16	78	79-1/4	16.0	16.3	10.0	3	3	LC55/LC70
	3682	L/R	32-1/8	30-7/16	78	79-1/4	17.4	17.7	11.1	3	3	LC55/LC70
	3882	L/R	34	32-5/16	78	79-1/4	18.4	18.7	12.0	3	3	LC55/LC70
	5082	PA/AP	46-1/2 / 21-7/8	41-5/8 / 19-13/16	78	79-1/4	25.2	25.6	12.6	3	3	LC55/LC70
	6082	PA/AP	55-3/4 / 26-1/2	50-7/8 / 24-7/16	78	79-1/4	30.2	30.7	16.8	3	3	LC55/LC70
	6782	PA/AP	62-3/4 / 30	57-7/8 / 27-15/16	78	79-1/4	34.0	34.5	20.0	3	3	LC55/LC70
	7282	PA/AP	67-3/4 / 32-1/2	62-7/8 / 30-7/16	78	79-1/4	36.7	37.3	22.3	3	3	LC55/LC70
	7582	PA/AP	71-1/2 / 34-3/8	66-5/8 / 32-5/16	78	79-1/4	38.7	39.3	24.0	3	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 Wood

OUT–SWING FRENCH DESIGN DATA

	Unit		Clear Opening (Inches) Width [1] 170°	Clear Opening (Inches) Width [1] 90°	Standard Sill Unit Height	ADA Sill Unit Height [2]	Vent Area Ft²	Vent Area (ADA) Ft²	Visible Glass Ft²	Standard Glass Thickness (mm) Tempered Dual–Pane Glazing	Standard Glass Thickness (mm) Tempered Triple–Pane Glazing	Performance Class & Grade [3]
7' 2" DOORS	3086	F	–	–	82–1/2	83–3/4	–	–	9.0	3	3	R55/R70
	3686	F	–	–	82–1/2	83–3/4	–	–	11.9	3	3	R55/R70
	2686	L/R	21–1/2	19–13/16	82–1/2	83–3/4	12.3	12.5	6.7	3	3	LC55/LC70
	3086	L/R	26–1/8	24–7/16	82–1/2	83–3/4	15.0	15.2	9.0	3	3	LC55/LC70
	3486	L/R	29–5/8	27–15/16	82–1/2	83–3/4	17.0	17.2	10.7	3	3	LC55/LC70
	3686	L/R	32–1/8	30–7/16	82–1/2	83–3/4	18.4	18.7	11.9	3	3	LC55/LC70
	3886	L/R	34	32–5/16	82–1/2	83–3/4	19.5	19.8	12.8	3	3	LC55/LC70
	5086	PA/AP	46–1/2 / 21–7/8	41–5/8 / 19–13/16	82–1/2	83–3/4	26.6	27.0	13.4	3	3	LC55/LC70
	6086	PA/AP	55–3/4 / 26–1/2	50–7/8 / 24–7/16	82–1/2	83–3/4	31.9	32.4	17.9	3	3	LC55/LC70
	6786	PA/AP	62–3/4 / 30	57–7/8 / 27–15/16	82–1/2	83–3/4	36.0	36.5	21.3	3	3	LC55/LC70
	7286	PA/AP	67–3/4 / 32–1/2	62–7/8 / 30–7/16	82–1/2	83–3/4	38.8	39.4	23.8	3	3	LC55/LC70
	7586	PA/AP	71–1/2 / 34–3/8	66–5/8 / 32–5/16	82–1/2	83–3/4	41.0	41.6	25.6	3	3	LC55/LC70
8' 0" DOORS	3096	F	–	–	92	93–1/4	–	–	10.2	3	3	R55/R70
	3696	F	–	–	92	93–1/4	–	–	13.5	3	3	R55/R70
	2696	L/R	21–1/2	19–13/16	92	93–1/4	13.7	13.9	7.6	3	3	LC55/LC70
	3096	L/R	26–1/8	24–7/16	92	93–1/4	16.7	16.9	10.2	3	3	LC55/LC70
	3496	L/R	29–5/8	27–15/16	92	93–1/4	18.9	19.2	12.1	3	3	LC55/LC70
	3696	L/R	32–1/8	30–7/16	92	93–1/4	20.5	20.8	13.5	3	3	LC55/LC70
	3896	L/R	34	32–5/16	92	93–1/4	21.7	22.0	14.5	3	3	LC55/LC70
	5096	PA/AP	46–1/2 / 21–7/8	41–5/8 / 19–13/16	92	93–1/4	29.7	30.1	15.2	3	3	LC55/LC70
	6096	PA/AP	55–3/4 / 26–1/2	50–7/8 / 24–7/16	92	93–1/4	35.6	36.1	20.4	3	3	LC55/LC70
	6796	PA/AP	62–3/4 / 30	57–7/8 / 27–15/16	92	93–1/4	40.1	40.6	24.2	3	3	LC55/LC70
	7296	PA/AP	67–3/4 / 32–1/2	62–7/8 / 30–7/16	92	93–1/4	43.3	43.9	27.0	3	3	LC55/LC70
	7596	PA/AP	71–1/2 / 34–3/8	66–5/8 / 32–5/16	92	93–1/4	45.7	46.3	29.1	3	3	LC55/LC70
10' 0" DOORS	30120	F	–	–	116	117.25	–	–	13.2	5	–	R50/R50
	36120	F	–	–	116	117.25	–	–	17.6	5	–	R50/R50
	26120	L/R	21–1/2	19–13/16	116	117.25	17.3	17.5	9.9	5	–	LC40/LC50
	30120	L/R	26–1/8	24–7/16	116	117.25	21.0	21.3	13.2	5	–	LC40/LC50
	34120	L/R	29–5/8	27–15/16	116	117.25	23.9	24.1	15.8	5	–	LC40/LC50
	36120	L/R	32–1/8	30–7/16	116	117.25	25.9	26.2	17.6	5	–	LC40/LC50
	38120	L/R	34	32–5/16	116	117.25	27.4	27.7	18.9	5	–	LC40/LC50
	50120	PA/AP	46–1/2 / 21–7/8	41–5/8 / 19–13/16	116	117.25	37.5	37.9	19.8	5	–	LC40/LC50
	60120	PA/AP	55–3/4 / 26–1/2	50–7/8 / 24–7/16	116	117.25	44.9	45.4	26.5	5	–	LC40/LC50
	67120	PA/AP	62–3/4 / 30	57–7/8 / 27–15/16	116	117.25	50.5	51.1	31.5	5	–	LC40/LC50
	72120	PA/AP	67–3/4 / 32–1/2	62–7/8 / 30–7/16	116	117.25	54.6	55.2	35.1	5	–	LC40/LC50
	75120	PA/AP	71–1/2 / 34–3/8	66–5/8 / 32–5/16	116	117.25	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 Wood

TRANSOMS – FIXED FRAME DIRECT SET

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)			Performance Class & Grade₂
		Dual-Pane Glazing		Triple-Pane Glazing	
		Annealed	Tempered	Annealed or Tempered	
2617	2.1	3	3	**3**	CW50
2625	3.3	3	3	**3**	CW50
3017	2.6	3	3	**3**	CW50
3025	4.0	3	3	**3**	CW50
3417	2.9	3	3	**3**	CW50
3425	4.6	3	3	**3**	CW50
3617	3.1	3	3	**3**	CW50
3625	4.9	3	3	**3**	CW50
3817	3.3	3	3	**3**	CW50
3825	5.2	3	3	**3**	CW50
5017	4.5	3	3	**3**	CW50
5025	7.1	3	3	**3**	CW50
6017	5.3	3	3	**3**	CW50
6025	8.5	3	3	**3**	CW50
6717	6.0	3	3	**3**	CW40
6725	9.5	3	3	**3**	CW40
7217	6.5	3	3	**3**	CW40
7225	10.3	3	3	**3**	CW40
7517	6.8	3	3	**3**	CW40
7525	10.8	3	3	**3**	CW40

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	R15₁
6725	8.1	2.5	3	3	R15₁
7217	5.1	–	3	3	R15₁
7225	8.8	2.5	3	3	R15₁
7517	5.4	–	3	3	R15₁
7525	9.3	2.5	3	3	R15₁

TRANSOMS – WIDE STILE CASEMENT

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)			Performance Class & Grade₂
		Dual-Pane Glazing		Triple-Pane Glazing	
		Annealed	Tempered	Annealed or Tempered	
2617	1.1	2.5	3	3	R15₁
2625	1.8	2.5	3	3	R15₁
3017	1.4	2.5	3	3	R15₁
3025	2.5	2.5	3	3	R15₁
3417	1.7	2.5	3	3	R15₁
3425	2.9	2.5	3	3	R15₁
3617	1.9	2.5	3	3	R15₁
3625	3.3	2.5	3	3	R15₁
3817	2.1	2.5	3	3	R15₁
3825	3.5	2.5	3	3	R15₁
5017	3.0	2.5	3	3	R15₁
5025	5.1	2.5	3	3	R15₁
6017	3.7	2.5	3	3	R15₁
6025	6.4	2.5	3	3	R15₁
6717	4.3	2.5	3	3	R15₁
6725	7.3	2.5	3	3	R15₁
7217	4.7	2.5	3	3	R15₁
7225	8.0	2.5	3	3	R15₁
7517	5.0	–	3	3	R15₁T
7525	8.5	2.5	3	3	R15₁

SIDELIGHTS

1880	5.0	–	3	3	R55/R70
1881	5.1	–	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.

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

OUT-SWING DOOR

DESIGN DATA

Wood and Aluminum-Clad Wood

Miscellaneous formulas

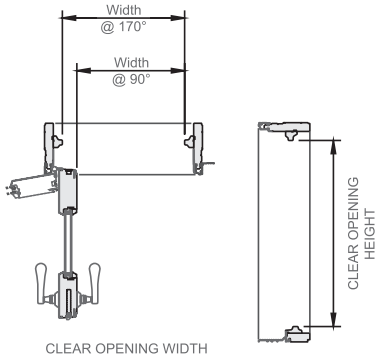
Miscellaneous Formulas

	VISIBLE GLASS	ACTUAL GLASS
DOORS	Width (Single Door) = Frame – 11-5/8" Width (Double Door) = (Frame – 22-1/2") / 2 Height = Frame – 15-3/4"	Width (Single Door) = Frame – 10-5/8" Width (Double Door) = (Frame – 20-1/2") / 2 Height = Frame – 14-3/4"
TRANSOMS – FIXED FRAME DIRECT SET	Width = Frame – 3-1/4" Height = Frame – 3-1/4"	Width = Frame – 2" Height = Frame – 2"
TRANSOMS – FIXED CASEMENT	Width = Frame – 5-3/4" Height = Frame – 5-3/4"	Width = Frame – 4-3/8" Height = Frame – 4-3/8"
TRANSOMS – WIDE STILE CASEMENT	Width = Frame – 11-5/8" Height = Frame – 5-3/4"	Width = Frame – 10-1/4" Height = Frame – 4-3/8"
SIDELIGHTS	Width = Frame – 6-3/4" Height = Frame – 15-3/4"	Width = Frame – 5-3/4" Height = Frame – 14-3/4"

Clad and Wood Clear Opening Dimensions

	WIDTH	HEIGHT
CLEAR OPENING @ 90°	Width (Double Door-Active Panel) = (Frame / 2) – 5-3/16" Width (Double Door-Both Panels) = (Frame / 2) - 8-3/8" Width (Single Door) = Frame – 5-9/16"	Height = Frame – 3-1/2"
CLEAR OPENING @ 170°	Width (Double Door-Active Panel) = (Frame / 2) – 3-1/8" Width (Double Door-Both Panels) = (Frame / 2) - 3-1/2" Width (Single Door) = Frame – 3-7/8"	Height = Frame – 3-1/2"

Vent Area Schematic



Clear Opening Schematic