

Clear Opening and Egress

Egress Requirements	Min. Width	Min. Height	Min. Sq.Ft.
United States	20"	24"	5.70

Glass thicker than DS may limit balancer travel and reduce egress.

Size	BS	Rough Opening		Net Size		Clear Opening		Clear Opening Sq. Ft.	Egress Compliance	Daylight - Vent		Daylight - Fixed		Total Visible Glass Sq. Ft.
		Width	Height	Width	Height	Width	Height			Width	Height	Width	Height	
1 ⁶ 2 ⁶	15	18	30	17 1/2	29 1/2	12 3/8	11 1/4	0.97	-	12 3/8	10 5/8	12 3/8	10 1/8	1.78
1 ⁶ 3 ⁰	18	18	36	17 1/2	35 1/2	12 3/8	14 1/4	1.22	-	12 3/8	13 5/8	12 3/8	13 1/8	2.30
1 ⁶ 3 ⁶	21	18	42	17 1/2	41 1/2	12 3/8	17 1/4	1.48	-	12 3/8	16 5/8	12 3/8	16 1/8	2.81
1 ⁶ 4 ⁰	24	18	48	17 1/2	47 1/2	12 3/8	20 1/4	1.74	-	12 3/8	19 5/8	12 3/8	19 1/8	3.33
1 ⁶ 4 ⁶	27	18	54	17 1/2	53 1/2	12 3/8	23 1/4	2.00	-	12 3/8	22 5/8	12 3/8	22 1/8	3.85
1 ⁶ 5 ⁰	30	18	60	17 1/2	59 1/2	12 3/8	26 1/4	2.26	-	12 3/8	25 5/8	12 3/8	25 1/8	4.36
1 ⁶ 5 ⁶	33	18	66	17 1/2	65 1/2	12 3/8	29 1/4	2.51	-	12 3/8	28 5/8	12 3/8	28 1/8	4.88
1 ⁶ 6 ⁰	36	18	72	17 1/2	71 1/2	12 3/8	32 1/4	2.77	-	12 3/8	31 5/8	12 3/8	31 1/8	5.39
1 ⁶ 6 ⁶	36	18	78	17 1/2	77 1/2	12 3/8	32 1/4	2.77	-	12 3/8	31 5/8	12 3/8	37 1/8	5.91
1 ⁶ 7 ⁰	36	18	84	17 1/2	83 1/2	12 3/8	32 1/4	2.77	-	12 3/8	31 5/8	12 3/8	43 1/8	6.42
1 ⁶ 7 ⁶	36	18	90	17 1/2	89 1/2	12 3/8	32 1/4	2.77	-	12 3/8	31 5/8	12 3/8	49 1/8	6.94
1 ⁶ 8 ⁰	36	18	96	17 1/2	95 1/2	12 3/8	32 1/4	2.77	-	12 3/8	31 5/8	12 3/8	55 1/8	7.46
2 ⁰ 2 ⁶	15	24	30	23 1/2	29 1/2	18 3/8	11 1/4	1.44	-	18 3/8	10 5/8	18 3/8	10 1/8	2.65
2 ⁰ 3 ⁰	18	24	36	23 1/2	35 1/2	18 3/8	14 1/4	1.82	-	18 3/8	13 5/8	18 3/8	13 1/8	3.41
2 ⁰ 3 ⁶	21	24	42	23 1/2	41 1/2	18 3/8	17 1/4	2.20	-	18 3/8	16 5/8	18 3/8	16 1/8	4.18
2 ⁰ 4 ⁰	24	24	48	23 1/2	47 1/2	18 3/8	20 1/4	2.58	-	18 3/8	19 5/8	18 3/8	19 1/8	4.94
2 ⁰ 4 ⁶	27	24	54	23 1/2	53 1/2	18 3/8	23 1/4	2.97	-	18 3/8	22 5/8	18 3/8	22 1/8	5.71
2 ⁰ 5 ⁰	30	24	60	23 1/2	59 1/2	18 3/8	26 1/4	3.35	-	18 3/8	25 5/8	18 3/8	25 1/8	6.48
2 ⁰ 5 ⁶	33	24	66	23 1/2	65 1/2	18 3/8	29 1/4	3.73	-	18 3/8	28 5/8	18 3/8	28 1/8	7.24
2 ⁰ 6 ⁰	36	24	72	23 1/2	71 1/2	18 3/8	32 1/4	4.12	-	18 3/8	31 5/8	18 3/8	31 1/8	8.01
2 ⁰ 6 ⁶	36	24	78	23 1/2	77 1/2	18 3/8	32 1/4	4.12	-	18 3/8	31 5/8	18 3/8	37 1/8	8.77
2 ⁰ 7 ⁰	36	24	84	23 1/2	83 1/2	18 3/8	32 1/4	4.12	-	18 3/8	31 5/8	18 3/8	43 1/8	9.54
2 ⁰ 7 ⁶	36	24	90	23 1/2	89 1/2	18 3/8	32 1/4	4.12	-	18 3/8	31 5/8	18 3/8	49 1/8	10.30
2 ⁰ 8 ⁰	36	24	96	23 1/2	95 1/2	18 3/8	32 1/4	4.12	-	18 3/8	31 5/8	18 3/8	55 1/8	11.07
2 ⁶ 2 ⁶	15	30	30	29 1/2	29 1/2	24 3/8	11 1/4	1.90	-	24 3/8	10 5/8	24 3/8	10 1/8	3.51
2 ⁶ 3 ⁰	18	30	36	29 1/2	35 1/2	24 3/8	14 1/4	2.41	-	24 3/8	13 5/8	24 3/8	13 1/8	4.53
2 ⁶ 3 ⁶	21	30	42	29 1/2	41 1/2	24 3/8	17 1/4	2.92	-	24 3/8	16 5/8	24 3/8	16 1/8	5.54
2 ⁶ 4 ⁰	24	30	48	29 1/2	47 1/2	24 3/8	20 1/4	3.43	-	24 3/8	19 5/8	24 3/8	19 1/8	6.56
2 ⁶ 4 ⁶	27	30	54	29 1/2	53 1/2	24 3/8	23 1/4	3.94	-	24 3/8	22 5/8	24 3/8	22 1/8	7.57
2 ⁶ 5 ⁰	30	30	60	29 1/2	59 1/2	24 3/8	26 1/4	4.44	-	24 3/8	25 5/8	24 3/8	25 1/8	8.59
2 ⁶ 5 ⁶	33	30	66	29 1/2	65 1/2	24 3/8	29 1/4	4.95	-	24 3/8	28 5/8	24 3/8	28 1/8	9.61
2 ⁶ 6 ⁰	36	30	72	29 1/2	71 1/2	24 3/8	32 1/4	5.46	-	24 3/8	31 5/8	24 3/8	31 1/8	10.62
2 ⁶ 6 ⁶	36	30	78	29 1/2	77 1/2	24 3/8	32 1/4	5.46	-	24 3/8	31 5/8	24 3/8	37 1/8	11.64
2 ⁶ 7 ⁰	36	30	84	29 1/2	83 1/2	24 3/8	32 1/4	5.46	-	24 3/8	31 5/8	24 3/8	43 1/8	12.65
2 ⁶ 7 ⁶	36	30	90	29 1/2	89 1/2	24 3/8	32 1/4	5.46	-	24 3/8	31 5/8	24 3/8	49 1/8	13.67
2 ⁶ 8 ⁰	36	30	96	29 1/2	95 1/2	24 3/8	32 1/4	5.46	-	24 3/8	31 5/8	24 3/8	55 1/8	14.68
3 ⁰ 2 ⁶	15	36	30	35 1/2	29 1/2	30 3/8	11 1/4	2.37	-	30 3/8	10 5/8	30 3/8	10 1/8	4.38
3 ⁰ 3 ⁰	18	36	36	35 1/2	35 1/2	30 3/8	14 1/4	3.01	-	30 3/8	13 5/8	30 3/8	13 1/8	5.64
3 ⁰ 3 ⁶	21	36	42	35 1/2	41 1/2	30 3/8	17 1/4	3.64	-	30 3/8	16 5/8	30 3/8	16 1/8	6.91
3 ⁰ 4 ⁰	24	36	48	35 1/2	47 1/2	30 3/8	20 1/4	4.27	-	30 3/8	19 5/8	30 3/8	19 1/8	8.17
3 ⁰ 4 ⁶	27	36	54	35 1/2	53 1/2	30 3/8	23 1/4	4.90	-	30 3/8	22 5/8	30 3/8	22 1/8	9.44
3 ⁰ 5 ⁰	30	36	60	35 1/2	59 1/2	30 3/8	26 1/4	5.54	-	30 3/8	25 5/8	30 3/8	25 1/8	10.71
3 ⁰ 5 ²	31	36	62	35 1/2	61 1/2	30 3/8	27 1/4	5.75	Y	30 3/8	26 5/8	30 3/8	26 1/8	11.13
3 ⁰ 5 ⁶	33	36	66	35 1/2	65 1/2	30 3/8	29 1/4	6.17	Y	30 3/8	28 5/8	30 3/8	28 1/8	11.97
3 ⁰ 6 ⁰	36	36	72	35 1/2	71 1/2	30 3/8	32 1/4	6.80	Y	30 3/8	31 5/8	30 3/8	31 1/8	13.24
3 ⁰ 6 ⁶	36	36	78	35 1/2	77 1/2	30 3/8	32 1/4	6.80	Y	30 3/8	31 5/8	30 3/8	37 1/8	14.50
3 ⁰ 7 ⁰	36	36	84	35 1/2	83 1/2	30 3/8	32 1/4	6.80	Y	30 3/8	31 5/8	30 3/8	43 1/8	15.77
3 ⁰ 7 ⁶	36	36	90	35 1/2	89 1/2	30 3/8	32 1/4	6.80	Y	30 3/8	31 5/8	30 3/8	49 1/8	17.03
3 ⁰ 8 ⁰	36	36	96	35 1/2	95 1/2	30 3/8	32 1/4	6.80	Y	30 3/8	31 5/8	30 3/8	55 1/8	18.30
3 ¹ 5 ⁰	30	37	60	36 1/2	59 1/2	31 3/8	26 1/4	5.72	Y	31 3/8	25 5/8	31 3/8	25 1/8	11.06
3 ⁶ 2 ⁶	15	42	30	41 1/2	29 1/2	36 3/8	11 1/4	2.84	-	36 3/8	10 5/8	36 3/8	10 1/8	5.24
3 ⁶ 3 ⁰	18	42	36	41 1/2	35 1/2	36 3/8	14 1/4	3.60	-	36 3/8	13 5/8	36 3/8	13 1/8	6.76
3 ⁶ 3 ⁶	21	42	42	41 1/2	41 1/2	36 3/8	17 1/4	4.36	-	36 3/8	16 5/8	36 3/8	16 1/8	8.27
3 ⁶ 4 ⁰	24	42	48	41 1/2	47 1/2	36 3/8	20 1/4	5.12	-	36 3/8	19 5/8	36 3/8	19 1/8	9.79
3 ⁶ 4 ⁶	27	42	54	41 1/2	53 1/2	36 3/8	23 1/4	5.87	-	36 3/8	22 5/8	36 3/8	22 1/8	11.30
3 ⁶ 5 ⁰	30	42	60	41 1/2	59 1/2	36 3/8	26 1/4	6.63	Y	36 3/8	25 5/8	36 3/8	25 1/8	12.82
3 ⁶ 5 ⁶	33	42	66	41 1/2	65 1/2	36 3/8	29 1/4	7.39	Y	36 3/8	28 5/8	36 3/8	28 1/8	14.34
3 ⁶ 6 ⁰	36	42	72	41 1/2	71 1/2	36 3/8	32 1/4	8.15	Y	36 3/8	31 5/8	36 3/8	31 1/8	15.85
3 ⁶ 6 ⁶	36	42	78	41 1/2	77 1/2	36 3/8	32 1/4	8.15	Y	36 3/8	31 5/8	36 3/8	37 1/8	17.37
3 ⁶ 7 ⁰	36	42	84	41 1/2	83 1/2	36 3/8	32 1/4	8.15	Y	36 3/8	31 5/8	36 3/8	43 1/8	18.88
3 ⁶ 7 ⁶	36	42	90	41 1/2	89 1/2	36 3/8	32 1/4	8.15	Y	36 3/8	31 5/8	36 3/8	49 1/8	20.40
3 ⁶ 8 ⁰	36	42	96	41 1/2	95 1/2	36 3/8	32 1/4	8.15	Y	36 3/8	31 5/8	36 3/8	55 1/8	21.91

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Rev: 2/23/16

Egress Requirements	Min. Width	Min. Height	Min. Sq.Ft.
United States	20"	24"	5.70

Glass thicker than DS may limit balancer travel and reduce egress.

Size	BS	Rough Opening		Net Size		Clear Opening		Clear Opening Sq. Ft.	Egress Compliance	Daylight - Vent		Daylight - Fixed		Total Visible Glass Sq. Ft.
		Width	Height	Width	Height	Width	Height			Width	Height			
4 ⁰ 2 ⁶	15	48	30	47 1/2	29 1/2	42 3/8	11 1/4	3.31	-	42 3/8	10 5/8	42 3/8	10 1/8	6.11
4 ⁰ 3 ⁰	18	48	36	47 1/2	35 1/2	42 3/8	14 1/4	4.19	-	42 3/8	13 5/8	42 3/8	13 1/8	7.87
4 ⁰ 3 ⁶	21	48	42	47 1/2	41 1/2	42 3/8	17 1/4	5.08	-	42 3/8	16 5/8	42 3/8	16 1/8	9.64
4 ⁰ 4 ⁰	24	48	48	47 1/2	47 1/2	42 3/8	20 1/4	5.96	-	42 3/8	19 5/8	42 3/8	19 1/8	11.40
4 ⁰ 4 ⁶	27	48	54	47 1/2	53 1/2	42 3/8	23 1/4	6.84	-	42 3/8	22 5/8	42 3/8	22 1/8	13.17
4 ⁰ 5 ⁰	30	48	60	47 1/2	59 1/2	42 3/8	26 1/4	7.72	Y	42 3/8	25 5/8	42 3/8	25 1/8	14.93
4 ⁰ 5 ⁶	33	48	66	47 1/2	65 1/2	42 3/8	29 1/4	8.61	Y	42 3/8	28 5/8	42 3/8	28 1/8	16.70
4 ⁰ 6 ⁰	36	48	72	47 1/2	71 1/2	42 3/8	32 1/4	9.49	Y	42 3/8	31 5/8	42 3/8	31 1/8	18.47
4 ⁰ 6 ⁶	36	48	78	47 1/2	77 1/2	42 3/8	32 1/4	9.49	Y	42 3/8	31 5/8	42 3/8	37 1/8	20.23
4 ⁰ 7 ⁰	36	48	84	47 1/2	83 1/2	42 3/8	32 1/4	9.49	Y	42 3/8	31 5/8	42 3/8	43 1/8	22.00
4 ⁰ 7 ⁶	36	48	90	47 1/2	89 1/2	42 3/8	32 1/4	9.49	Y	42 3/8	31 5/8	42 3/8	49 1/8	23.76
4 ⁰ 8 ⁰	36	48	96	47 1/2	95 1/2	42 3/8	32 1/4	9.49	Y	42 3/8	31 5/8	42 3/8	55 1/8	25.53

Clear opening formulas:

Width: AWW - 5 1/8"
 Height: BS - 3 3/4" (BS <= 36")

Daylight formulas:

Vent Lite: AWW - 5 1/8"
 BS - 4 3/8"
 Fixed Lite: AWW - 5 1/8"
 AWH - BS - 4 3/8"