JELD-WEN®

BRICKMOULD | DOUBLE-HUNG

VINYL WINDOWS

ARCHITECTURAL DESIGN MANUAL | February 2024

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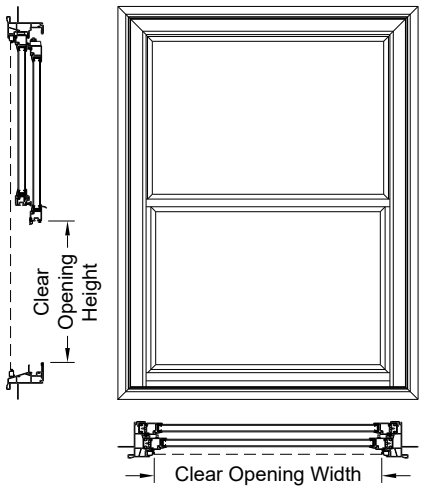
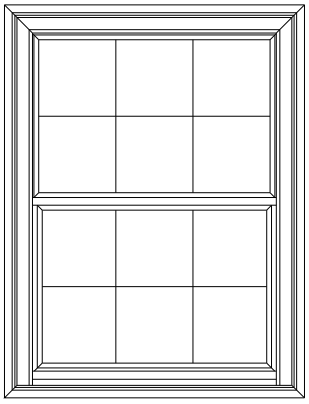
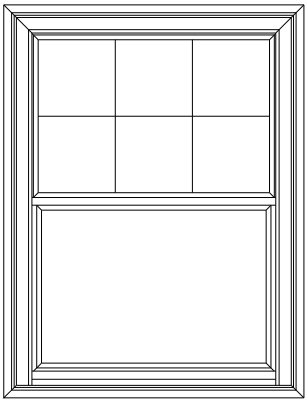
CLEAR OPENING LAYOUT & GRID PATTERNS



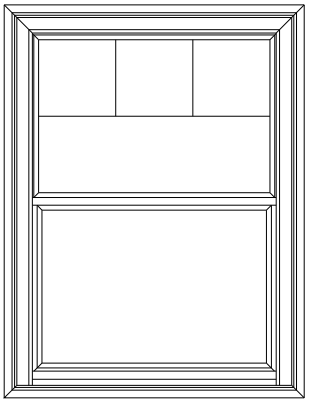
Clear Opening Formulas		
Window Type	Clear Opening Width	Clear Opening Height
Standard Double Hung	Frame Width - 4.003"	(Frame Height/2) - 3.348"



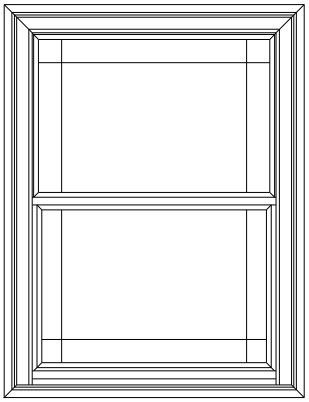
Colonial



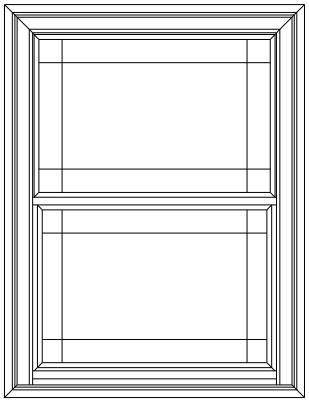
Colonial Top Sash



Colonial From Top Down



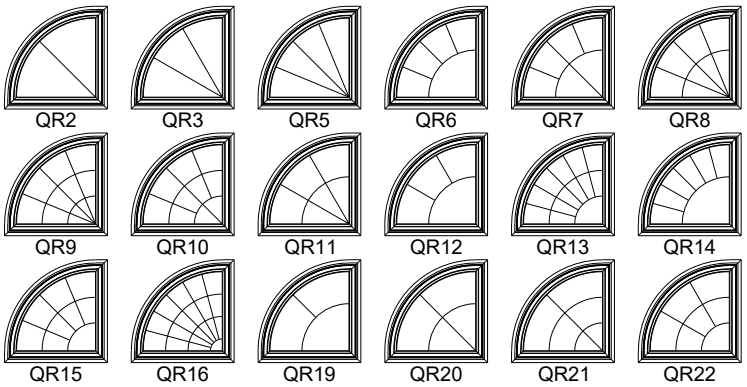
Prairie Frame



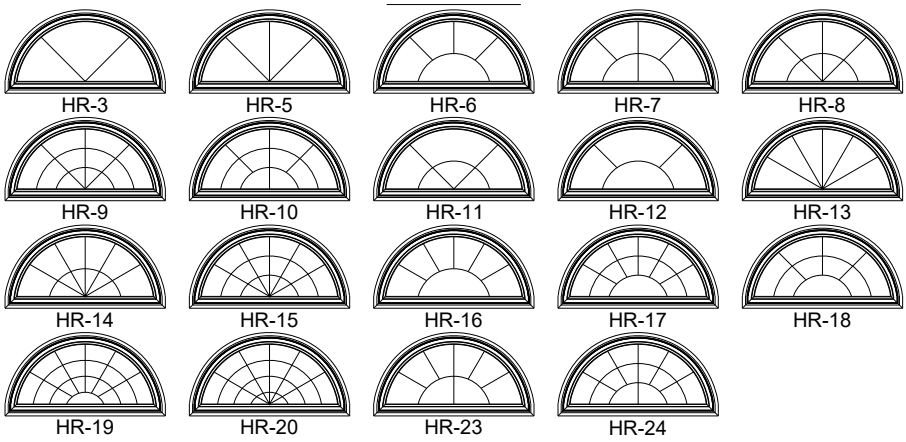
Prairie Glass

GRID PATTERNS

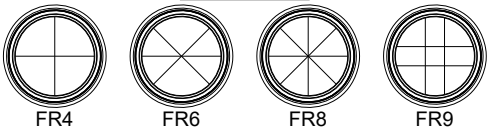
Quarter Round



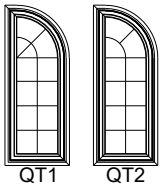
Half Round



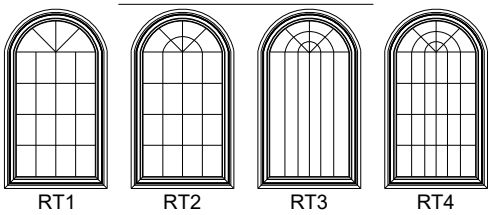
Full Round



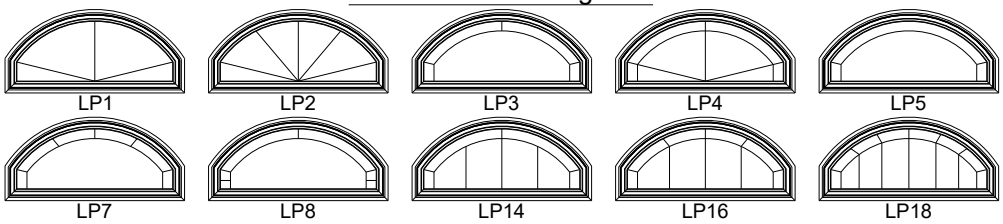
Extended Quarter Round



Extended Half Round



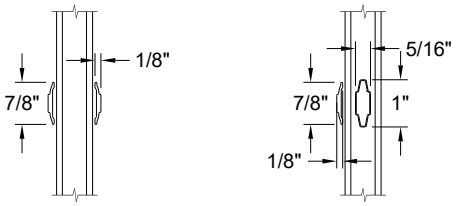
Extended Circle Segment



GRID & MULLION OPTIONS

Exterior ◄—— ——► Interior

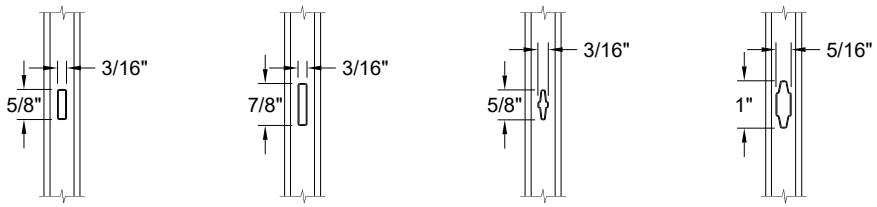
SDL Options



7/8" Raised Slim

7/8" Raised Slim SDL Out w/ 1" Contour GBG

GBG Options



5/8" Flat

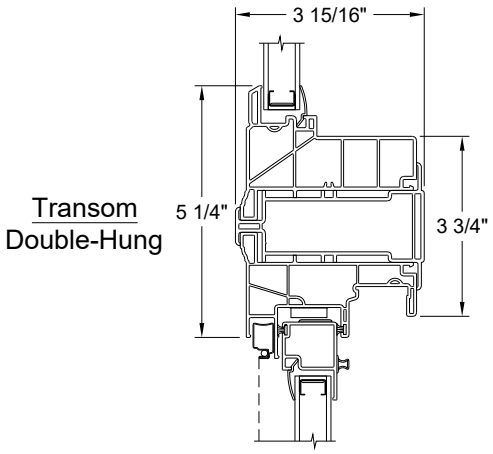
7/8" Flat

5/8" Contour

1" Contour

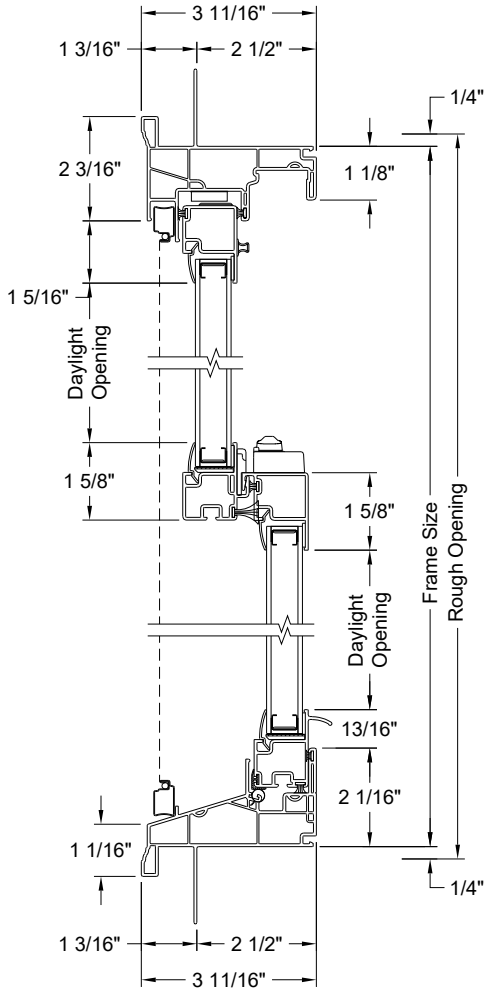
Note: SDL and GBG combinations are available.

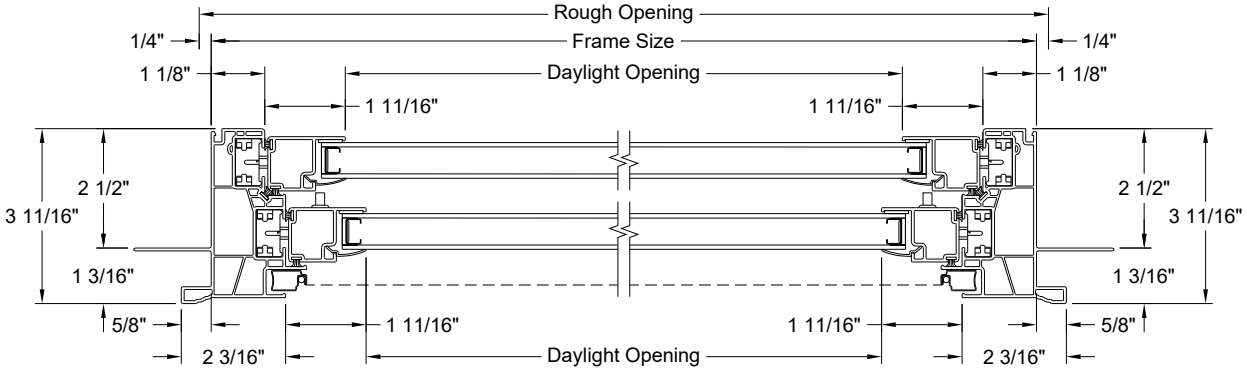
Mullion Details



Transom
Double-Hung

OPERATOR SECTIONS

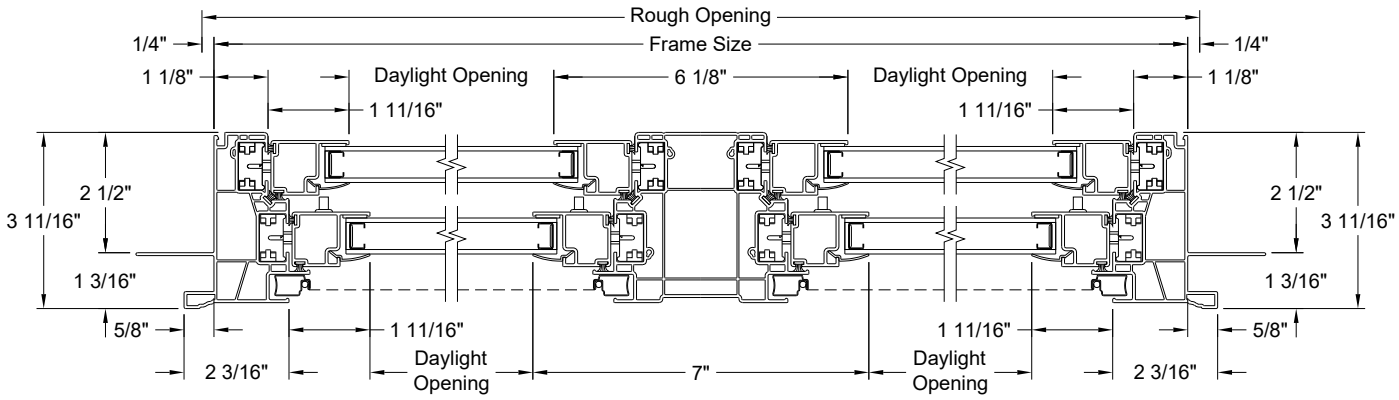




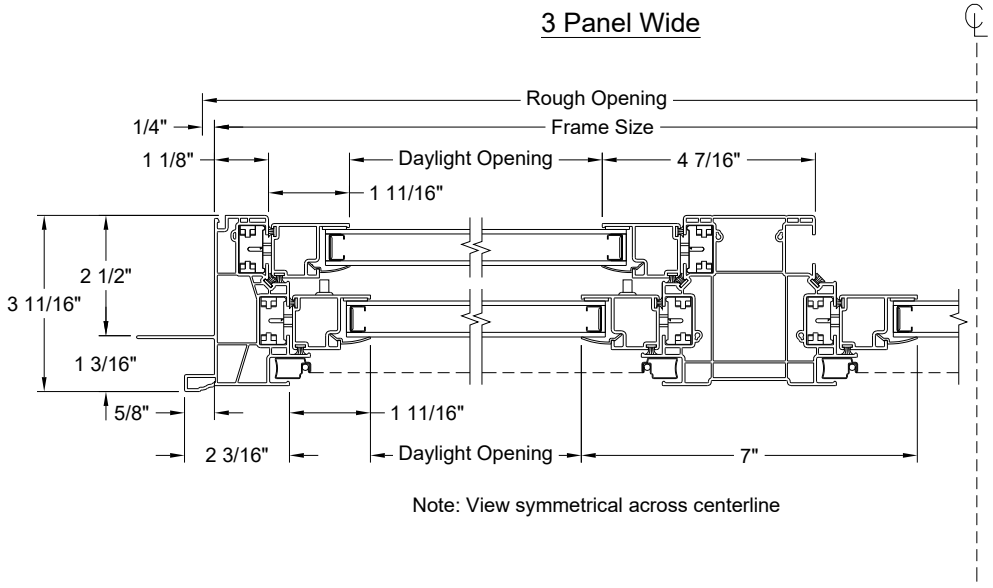
Note: Section Views Same for PG 20 & PG 50 Except For Reinforcements. Reinforcements Not Shown For Proprietary Integrity.

OPERATOR 2 & 3 PANEL HORIZONTAL SECTIONS

2 Panel Wide



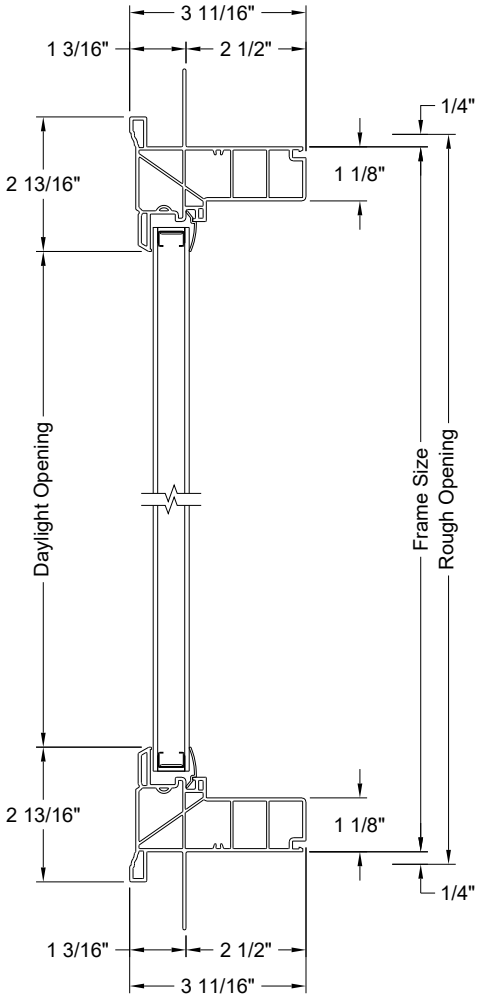
3 Panel Wide

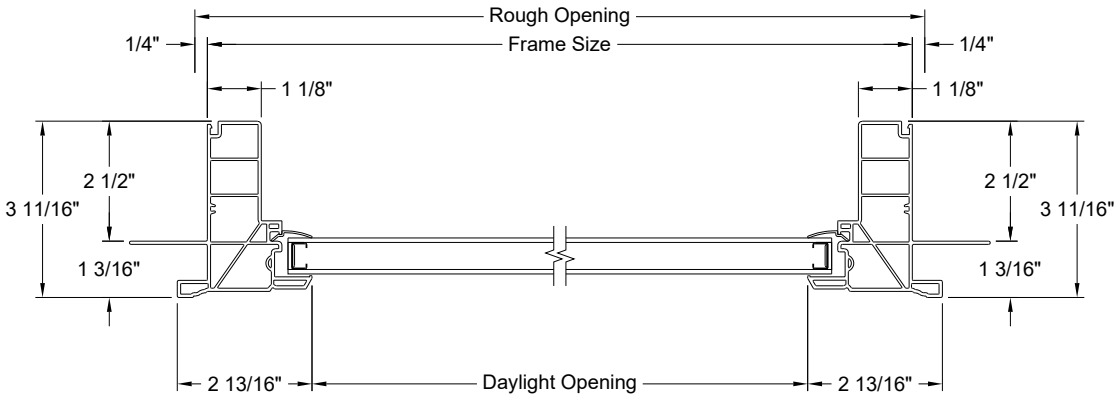


Note: View symmetrical across centerline

Note: Section Views Same for PG 20 & PG 50 Except For Reinforcements. Reinforcements Not Shown For Proprietary Integrity.

STATIONARY / TRANSOM SECTIONS

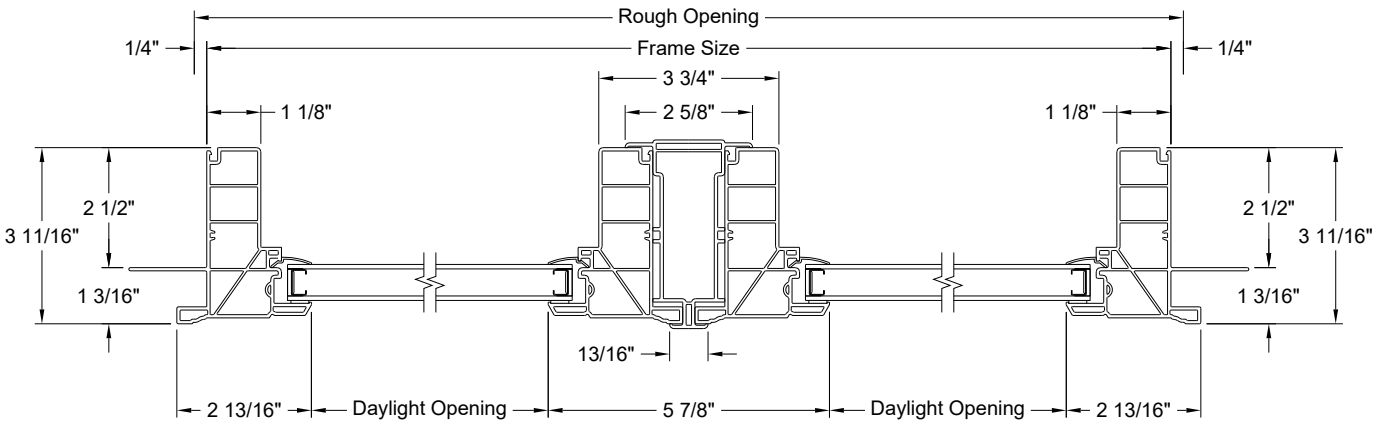




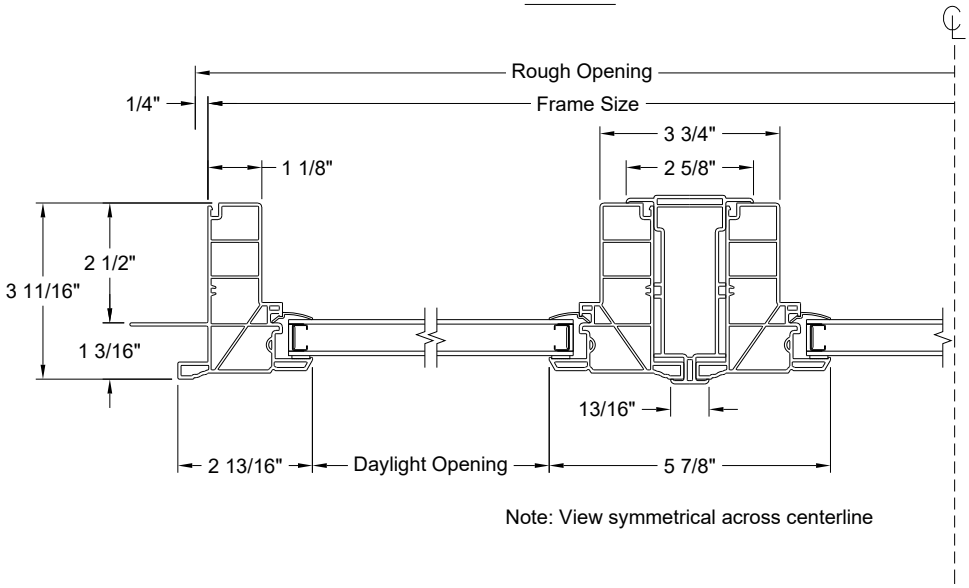
Note: Section Views Same for PG 20 & PG 50 Except For Reinforcements. Reinforcements Not Shown For Proprietary Integrity.

STATIONARY 2 & 3 PANEL HORIZONTAL SECTIONS

2 Panel



3 Panel

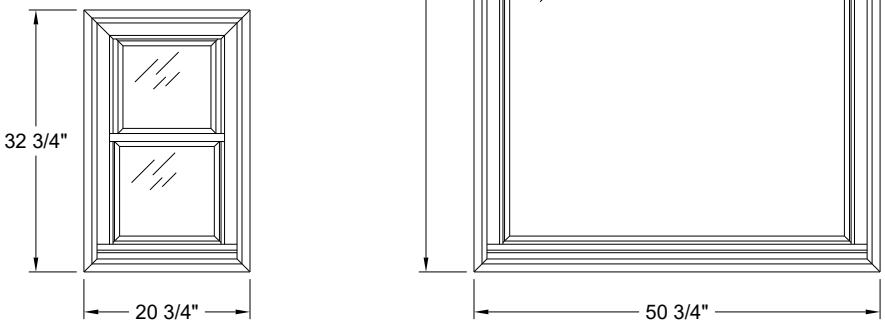


Note: View symmetrical across centerline

Note: Section Views Same for PG 20 & PG 50 Except For Reinforcements. Reinforcements Not Shown For Proprietary Integrity.

MIN-MAX STANDARD OPERATING UNIT SIZING & FORMULAS

Operator



Minimum Size:
20 3/4" x 32 3/4"

Maximum Size:
50 3/4" x 79 3/4"

Operator Width			
17 1/2"	19 1/2"	21 1/2"	23 1/2"
25 1/2"	27 1/2"	29 1/2"	31 1/2"
33 1/2"	35 1/2"	37 1/2"	39 1/2"
41 1/2"	43 1/2"	45 1/2"	47 1/2"

Operator Height			
29 1/2"	35 1/2"	36 1/2"	37 1/2"
40 1/2"	41 1/2"	47 1/2"	48 1/2"
52 1/2"	53 1/2"	56 1/2"	59 1/2"
61 1/2"	64 1/2"	65 1/2"	68 1/2"
71 1/2"	73 1/2"	76 1/2"	

Understanding JELD-WEN Book Codes:

Brickmould Vinyl Product	Prefix	Width Code	Height Code
Double-Hung	BBMVDH	WW	HH

Brickmould Vinyl Sample Book Code:
BBMVDH2460 = Double-Hung, 23 1/2" x 59 1/2" Frame Size

Formulas	
Rough Opening	(Frame Width + 1/2") x (Frame Height + 1/2")
Masonry Opening	(Frame Width + 1/2") x (Frame Height + 1/2")
Daylight Opening - Upper Sash ft²	((Frame Width - 6 1/2") x ((Frame Height / 2) - 4 7/16")) / 144
Daylight Opening - Lower Sash ft²	((Frame Width - 5 5/8") x ((Frame Height / 2) - 3 9/16")) / 144
Clear Opening Even Divide ft²	((Frame Width - 4") x ((Frame Height / 2) - 3 11/32")) / 144

Operating units shown. Stationary/Fixed units shown in Brickmould Geometric Direct Set Architectural Design Manual.

EGRESS CHART

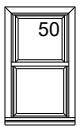
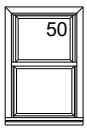
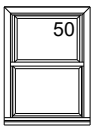
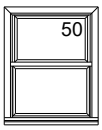
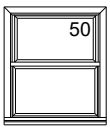
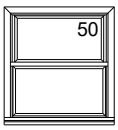
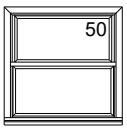
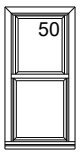
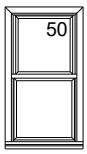
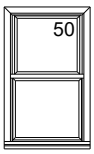
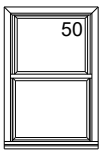
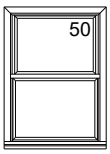
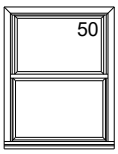
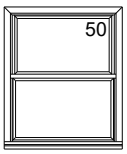
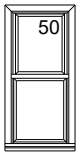
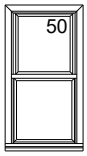
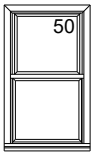
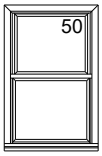
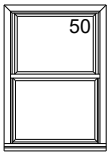
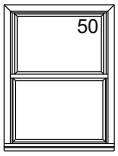
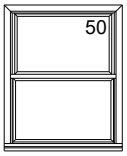
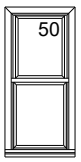
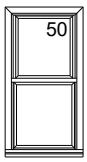
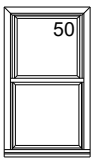
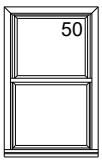
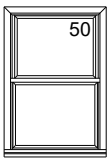
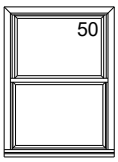
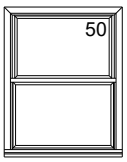
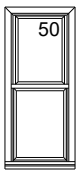
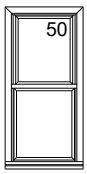
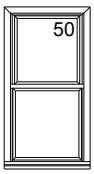
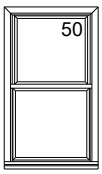
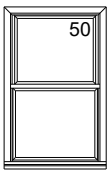
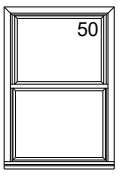
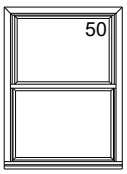
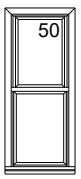
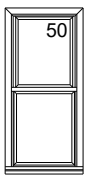
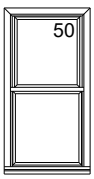
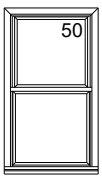
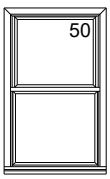
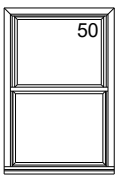
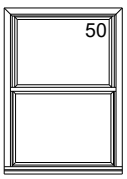
Double-Hung Operator Egress Chart

Height \ Width	17 1/2"	19 1/2"	21 1/2"	23 1/2"	25 1/2"	27 1/2"	29 1/2"	31 1/2"	33 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	43 1/2"	45 1/2"	47 1/2"
29 1/2"	1.07 ft²	1.23 ft²	1.39 ft²	1.54 ft²	1.70 ft²	1.86 ft²	2.02 ft²	2.18 ft²	2.34 ft²	2.49 ft²	2.65 ft²	2.81 ft²	2.97 ft²	3.13 ft²	3.29 ft²	3.44 ft²
35 1/2"	1.35 ft²	1.55 ft²	1.75 ft²	1.95 ft²	2.15 ft²	2.35 ft²	2.55 ft²	2.75 ft²	2.95 ft²	3.15 ft²	3.35 ft²	3.55 ft²	3.75 ft²	3.95 ft²	4.15 ft²	4.35 ft²
36 1/2"	1.40 ft²	1.60 ft²	1.81 ft²	2.02 ft²	2.22 ft²	2.43 ft²	2.64 ft²	2.85 ft²	3.05 ft²	3.26 ft²	3.47 ft²	3.67 ft²	3.88 ft²	4.09 ft²	4.29 ft²	4.50 ft²
37 1/2"	1.44 ft²	1.66 ft²	1.87 ft²	2.09 ft²	2.30 ft²	2.51 ft²	2.73 ft²	2.94 ft²	3.15 ft²	3.37 ft²	3.58 ft²	3.80 ft²	4.01 ft²	4.22 ft²	4.44 ft²	4.65 ft²
40 1/2"	1.58 ft²	1.82 ft²	2.05 ft²	2.29 ft²	2.52 ft²	2.76 ft²	2.99 ft²	3.23 ft²	3.46 ft²	3.70 ft²	3.93 ft²	4.17 ft²	4.40 ft²	4.64 ft²	4.87 ft²	5.11 ft²
41 1/2"	1.63 ft²	1.87 ft²	2.11 ft²	2.36 ft²	2.60 ft²	2.84 ft²	3.08 ft²	3.32 ft²	3.56 ft²	3.81 ft²	4.05 ft²	4.29 ft²	4.53 ft²	4.77 ft²	5.01 ft²	5.26 ft²
47 1/2"	1.91 ft²	2.20 ft²	2.48 ft²	2.76 ft²	3.05 ft²	3.33 ft²	3.61 ft²	3.90 ft²	4.18 ft²	4.46 ft²	4.75 ft²	5.03 ft²	5.31 ft²	5.60 ft²	5.88 ft²	6.16 ft²
48 1/2"	1.96 ft²	2.25 ft²	2.54 ft²	2.83 ft²	3.12 ft²	3.41 ft²	3.70 ft²	3.99 ft²	4.28 ft²	4.57 ft²	4.86 ft²	5.15 ft²	5.44 ft²	5.73 ft²	6.02 ft²	6.31 ft²
52 1/2"	2.15 ft²	2.46 ft²	2.78 ft²	3.10 ft²	3.42 ft²	3.74 ft²	4.06 ft²	4.37 ft²	4.69 ft²	5.01 ft²	5.33 ft²	5.65 ft²	5.96 ft²	6.28 ft²	6.60 ft²	6.92 ft²
53 1/2"	2.19 ft²	2.52 ft²	2.84 ft²	3.17 ft²	3.49 ft²	3.82 ft²	4.14 ft²	4.47 ft²	4.79 ft²	5.12 ft²	5.44 ft²	5.77 ft²	6.09 ft²	6.42 ft²	6.74 ft²	7.07 ft²
56 1/2"	2.33 ft²	2.68 ft²	3.03 ft²	3.37 ft²	3.72 ft²	4.06 ft²	4.41 ft²	4.76 ft²	5.10 ft²	5.45 ft²	5.79 ft²	6.14 ft²	6.48 ft²	6.83 ft²	7.18 ft²	7.52 ft²
59 1/2"	2.47 ft²	2.84 ft²	3.21 ft²	3.57 ft²	3.94 ft²	4.31 ft²	4.67 ft²	5.04 ft²	5.41 ft²	5.77 ft²	6.14 ft²	6.51 ft²	6.87 ft²	7.24 ft²	7.61 ft²	7.98 ft²
61 1/2"	2.57 ft²	2.95 ft²	3.33 ft²	3.71 ft²	4.09 ft²	4.47 ft²	4.85 ft²	5.23 ft²	5.61 ft²	5.99 ft²	6.37 ft²	6.75 ft²	7.14 ft²	7.52 ft²	7.90 ft²	8.28 ft²
64 1/2"	2.71 ft²	3.11 ft²	3.51 ft²	3.91 ft²	4.31 ft²	4.72 ft²	5.12 ft²	5.52 ft²	5.92 ft²	6.32 ft²	6.72 ft²	7.12 ft²	7.53 ft²	7.93 ft²	8.33 ft²	8.73 ft²
65 1/2"	2.76 ft²	3.16 ft²	3.57 ft²	3.98 ft²	4.39 ft²	4.80 ft²	5.21 ft²	5.61 ft²	6.02 ft²	6.43 ft²	6.84 ft²	7.25 ft²	7.66 ft²	8.06 ft²	8.47 ft²	8.88 ft²
68 1/2"	2.90 ft²	3.33 ft²	3.75 ft²	4.18 ft²	4.61 ft²	5.04 ft²	5.47 ft²	5.90 ft²	6.33 ft²	6.76 ft²	7.19 ft²	7.62 ft²	8.05 ft²	8.48 ft²	8.91 ft²	9.33 ft²
71 1/2"	3.04 ft²	3.49 ft²	3.94 ft²	4.39 ft²	4.84 ft²	5.29 ft²	5.74 ft²	6.19 ft²	6.64 ft²	7.09 ft²	7.54 ft²	7.99 ft²	8.44 ft²	8.89 ft²	9.34 ft²	9.79 ft²
73 1/2"	3.13 ft²	3.59 ft²	4.06 ft²	4.52 ft²	4.99 ft²	5.45 ft²	5.91 ft²	6.38 ft²	6.84 ft²	7.31 ft²	7.77 ft²	8.23 ft²	8.70 ft²	9.16 ft²	9.63 ft²	10.09 ft²
76 1/2"	3.27 ft²	3.76 ft²	4.24 ft²	4.73 ft²	5.21 ft²	5.70 ft²	6.18 ft²	6.66 ft²	7.15 ft²	7.63 ft²	8.12 ft²	8.60 ft²	9.09 ft²	9.57 ft²	10.06 ft²	10.54 ft²

Unit meets egress specifications equal or greater than 20" width, 24" height, and 5.7 ft².

Unit meets egress specifications equal or greater than 20" width, 24" height, and 5.0 ft².

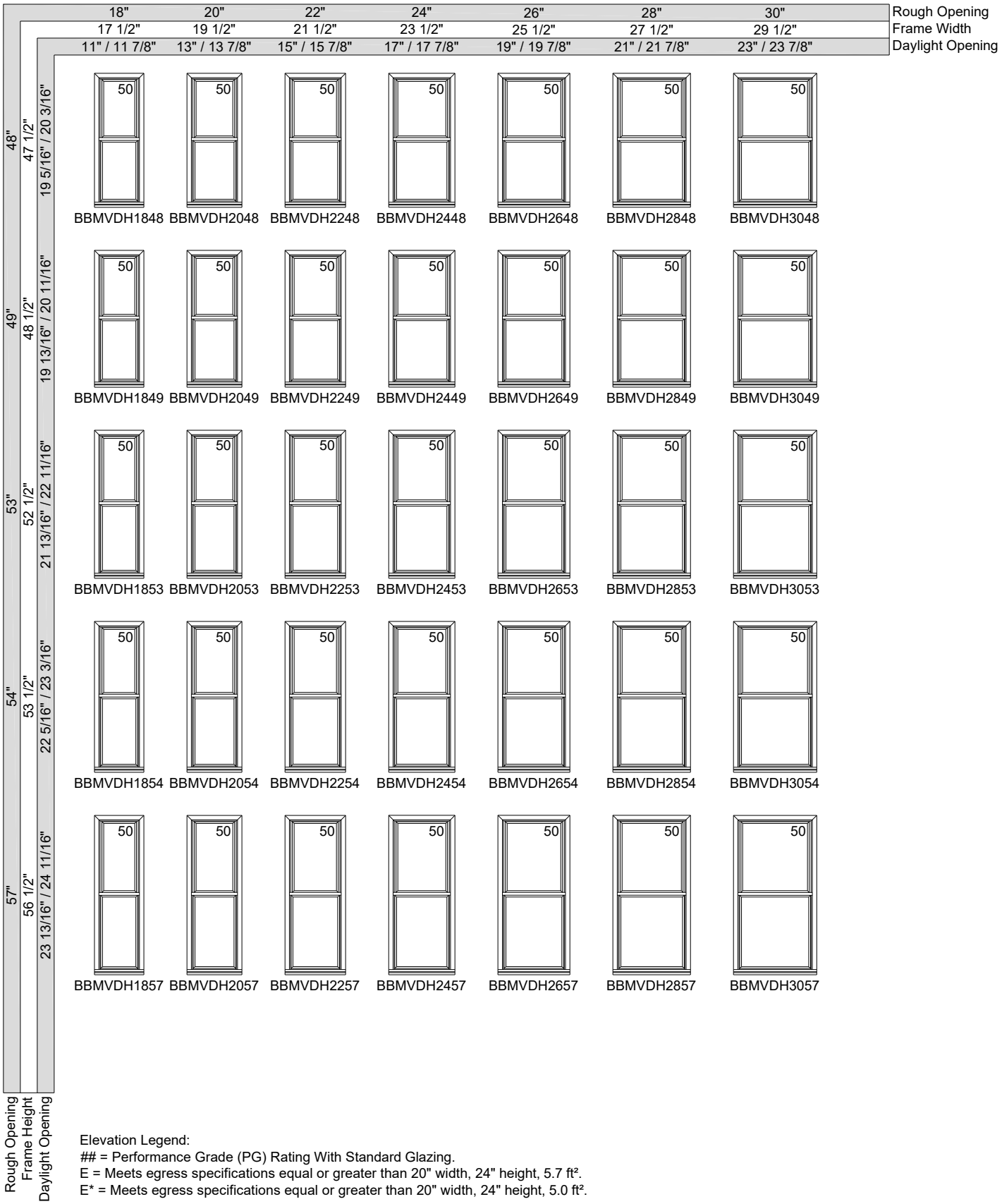
SINGLE UNITS

Rough Opening	18"	20"	22"	24"	26"	28"	30"
Frame Width	17 1/2"	19 1/2"	21 1/2"	23 1/2"	25 1/2"	27 1/2"	29 1/2"
Daylight Opening	11" / 11 7/8"	13" / 13 7/8"	15" / 15 7/8"	17" / 17 7/8"	19" / 19 7/8"	21" / 21 7/8"	23" / 23 7/8"
30" / 29 1/2" / 10 5/16" / 11 3/16"	 BBMVDH1830	 BBMVDH2030	 BBMVDH2230	 BBMVDH2430	 BBMVDH2630	 BBMVDH2830	 BBMVDH3030
36" / 35 1/2" / 13 5/16" / 14 3/16"	 BBMVDH1836	 BBMVDH2036	 BBMVDH2236	 BBMVDH2436	 BBMVDH2636	 BBMVDH2836	 BBMVDH3036
37" / 36 1/2" / 13 13/16" / 14 11/16"	 BBMVDH1837	 BBMVDH2037	 BBMVDH2237	 BBMVDH2437	 BBMVDH2637	 BBMVDH2837	 BBMVDH3037
38" / 37 1/2" / 14 5/16" / 15 3/16"	 BBMVDH1838	 BBMVDH2038	 BBMVDH2238	 BBMVDH2438	 BBMVDH2638	 BBMVDH2838	 BBMVDH3038
41" / 40 1/2" / 15 13/16" / 16 11/16"	 BBMVDH1841	 BBMVDH2041	 BBMVDH2241	 BBMVDH2441	 BBMVDH2641	 BBMVDH2841	 BBMVDH3041
42" / 41 1/2" / 16 5/16" / 17 3/16"	 BBMVDH1842	 BBMVDH2042	 BBMVDH2242	 BBMVDH2442	 BBMVDH2642	 BBMVDH2842	 BBMVDH3042

Rough Opening / Frame Height / Daylight Opening

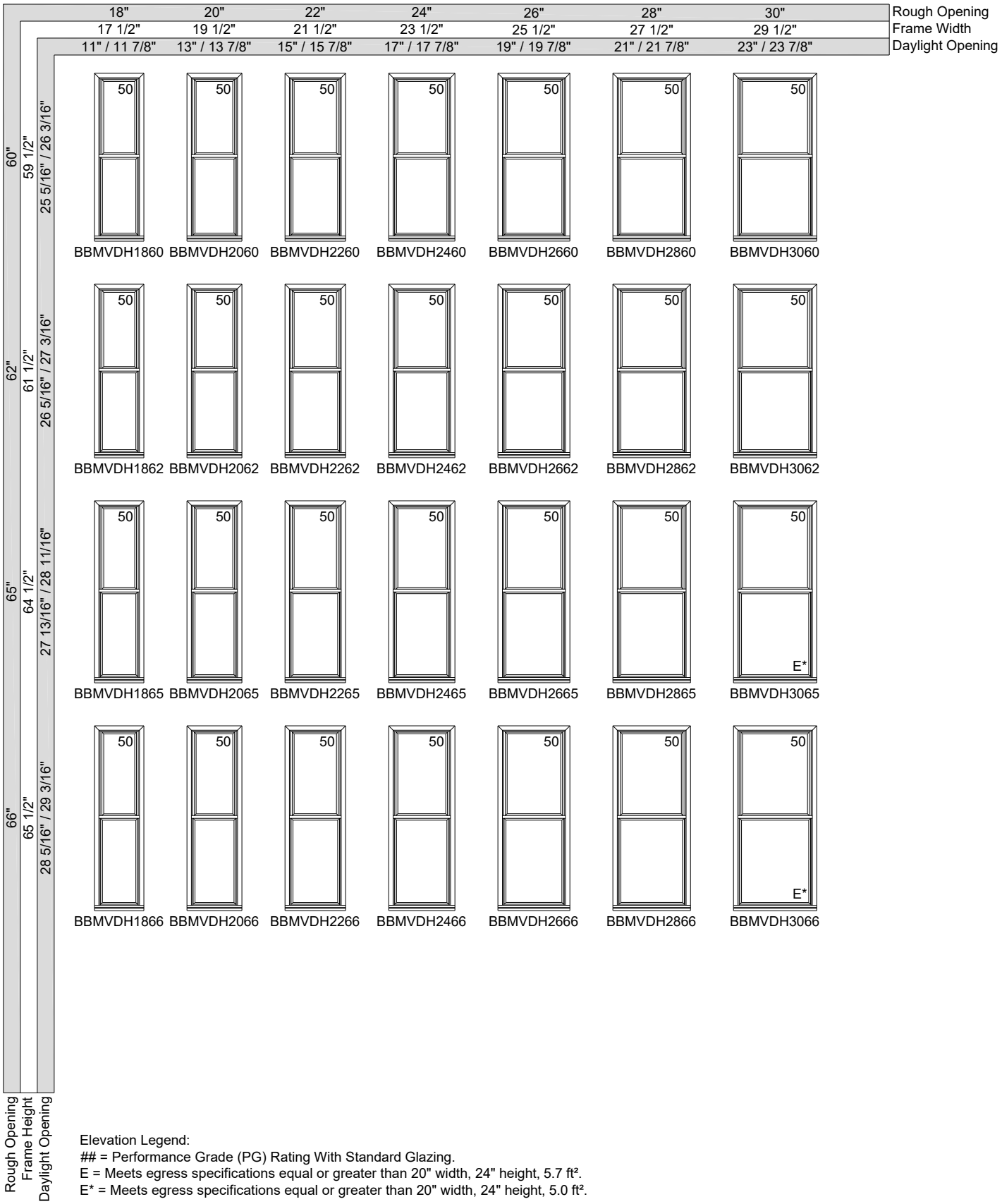
Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

SINGLE UNITS



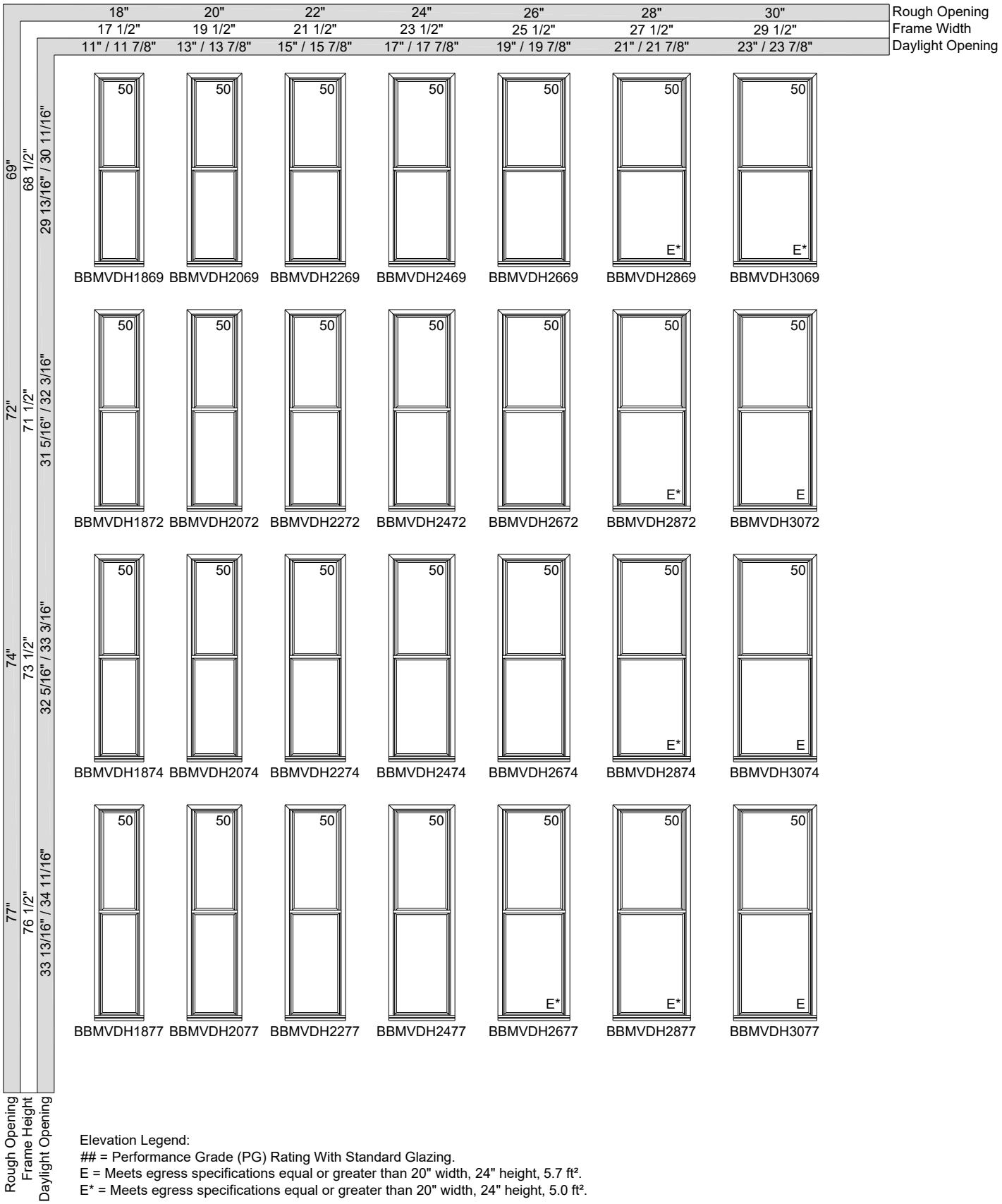
Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

SINGLE UNITS



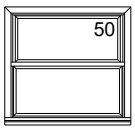
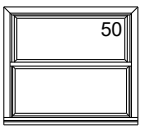
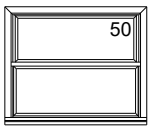
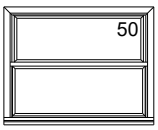
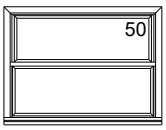
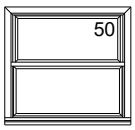
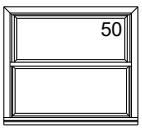
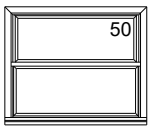
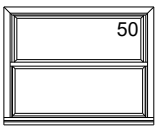
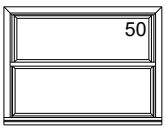
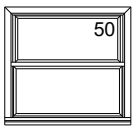
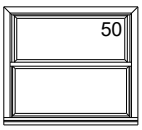
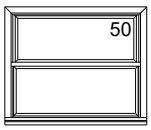
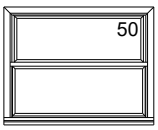
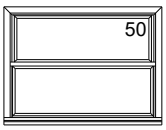
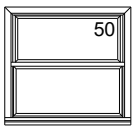
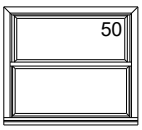
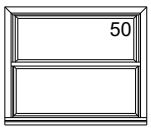
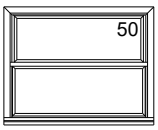
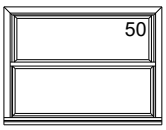
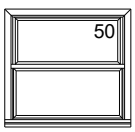
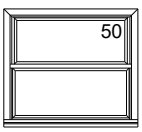
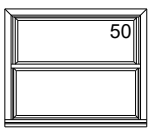
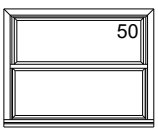
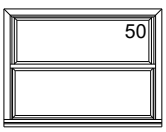
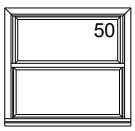
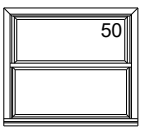
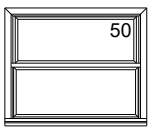
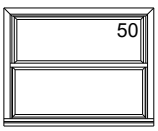
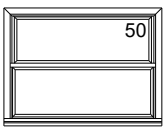
Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

SINGLE UNITS



Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

SINGLE UNITS

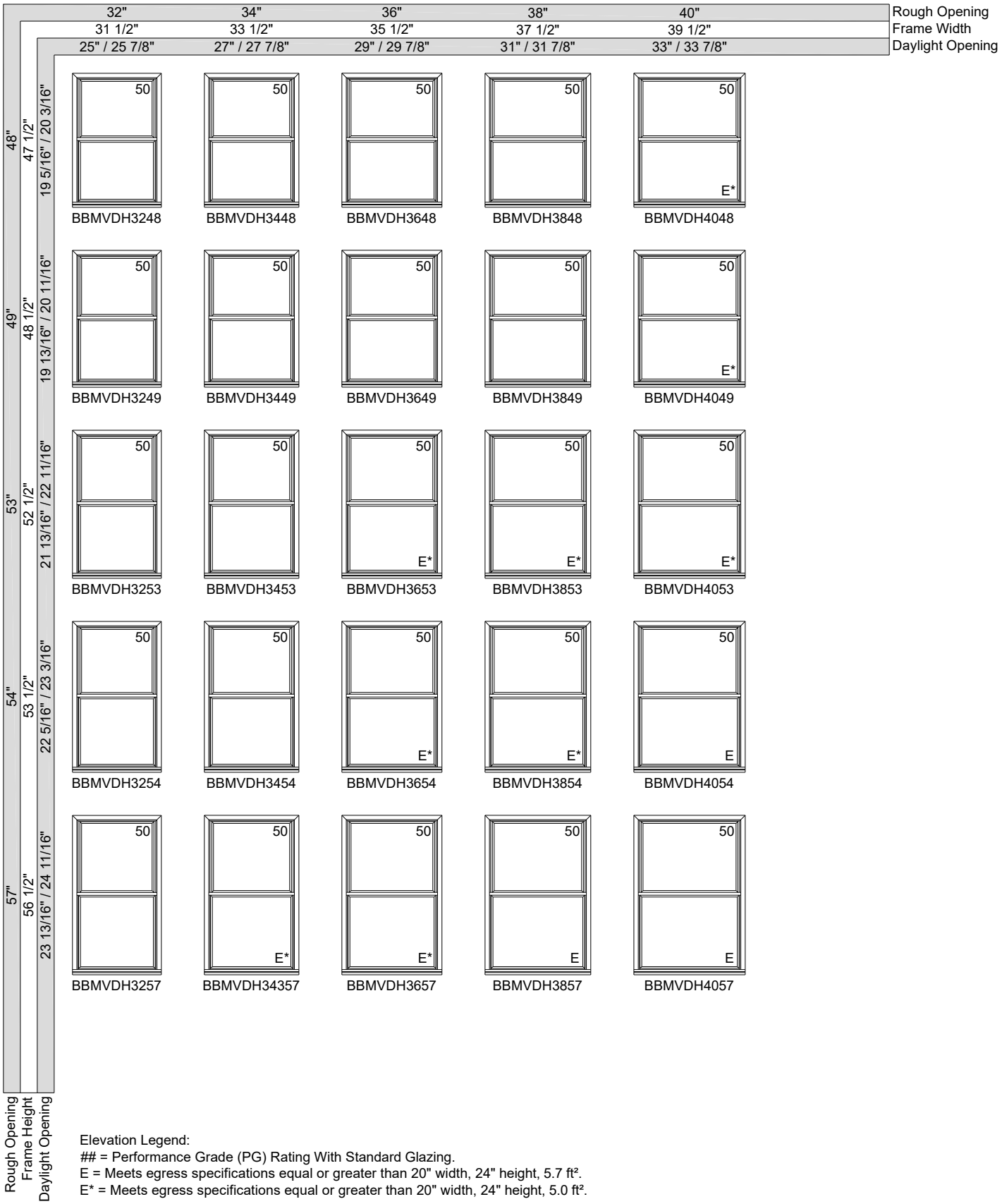
Rough Opening	32"	34"	36"	38"	40"
Frame Width	31 1/2"	33 1/2"	35 1/2"	37 1/2"	39 1/2"
Daylight Opening	25" / 25 7/8"	27" / 27 7/8"	29" / 29 7/8"	31" / 31 7/8"	33" / 33 7/8"
30" / 29 1/2" / 10 5/16" / 11 3/16"	 BBMVDH3230	 BBMVDH3430	 BBMVDH3630	 BBMVDH3830	 BBMVDH4030
36" / 35 1/2" / 13 5/16" / 14 3/16"	 BBMVDH3236	 BBMVDH3436	 BBMVDH3636	 BBMVDH3836	 BBMVDH4036
37" / 36 1/2" / 13 13/16" / 14 11/16"	 BBMVDH3237	 BBMVDH3437	 BBMVDH3637	 BBMVDH3837	 BBMVDH4037
38" / 37 1/2" / 14 5/16" / 15 3/16"	 BBMVDH3238	 BBMVDH3438	 BBMVDH3638	 BBMVDH3838	 BBMVDH4038
41" / 40 1/2" / 15 13/16" / 16 11/16"	 BBMVDH3241	 BBMVDH3441	 BBMVDH3641	 BBMVDH3841	 BBMVDH4041
42" / 41 1/2" / 16 5/16" / 17 3/16"	 BBMVDH3242	 BBMVDH3442	 BBMVDH3642	 BBMVDH3842	 BBMVDH4042

Rough Opening
Frame Height
Daylight Opening

Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

Product specifications may change without notice.

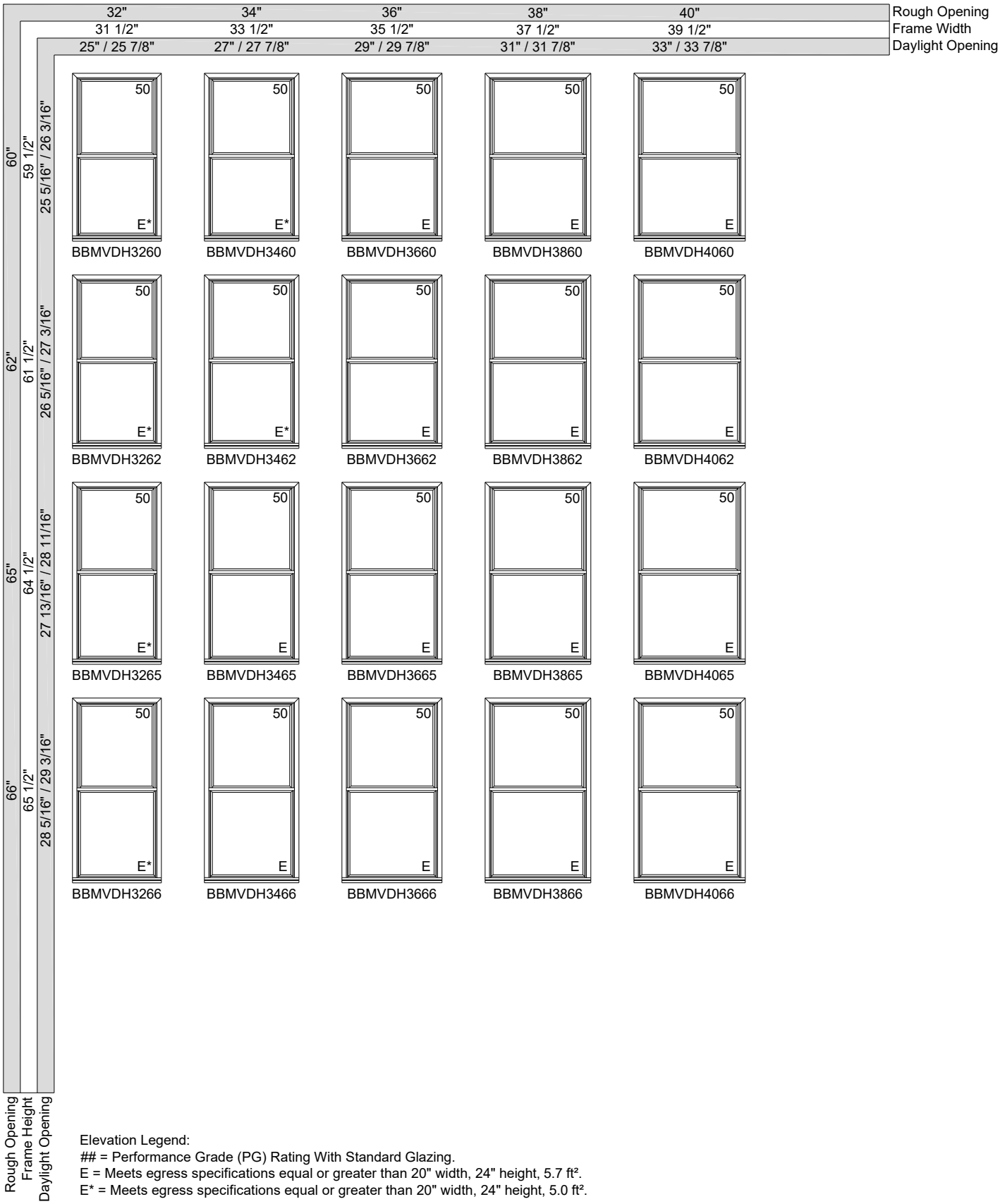
SINGLE UNITS



Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

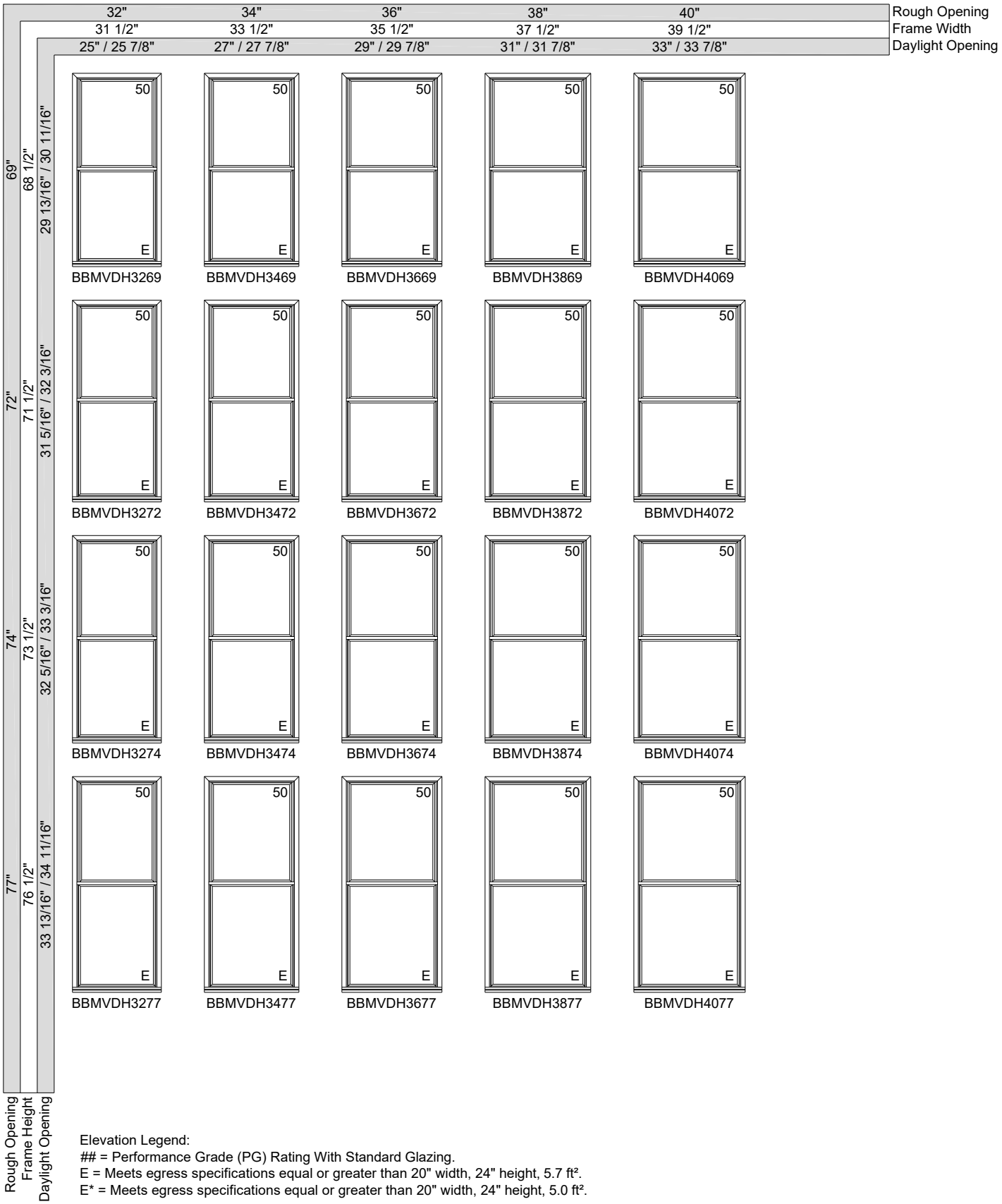
Product specifications may change without notice.

SINGLE UNITS



Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

SINGLE UNITS



Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

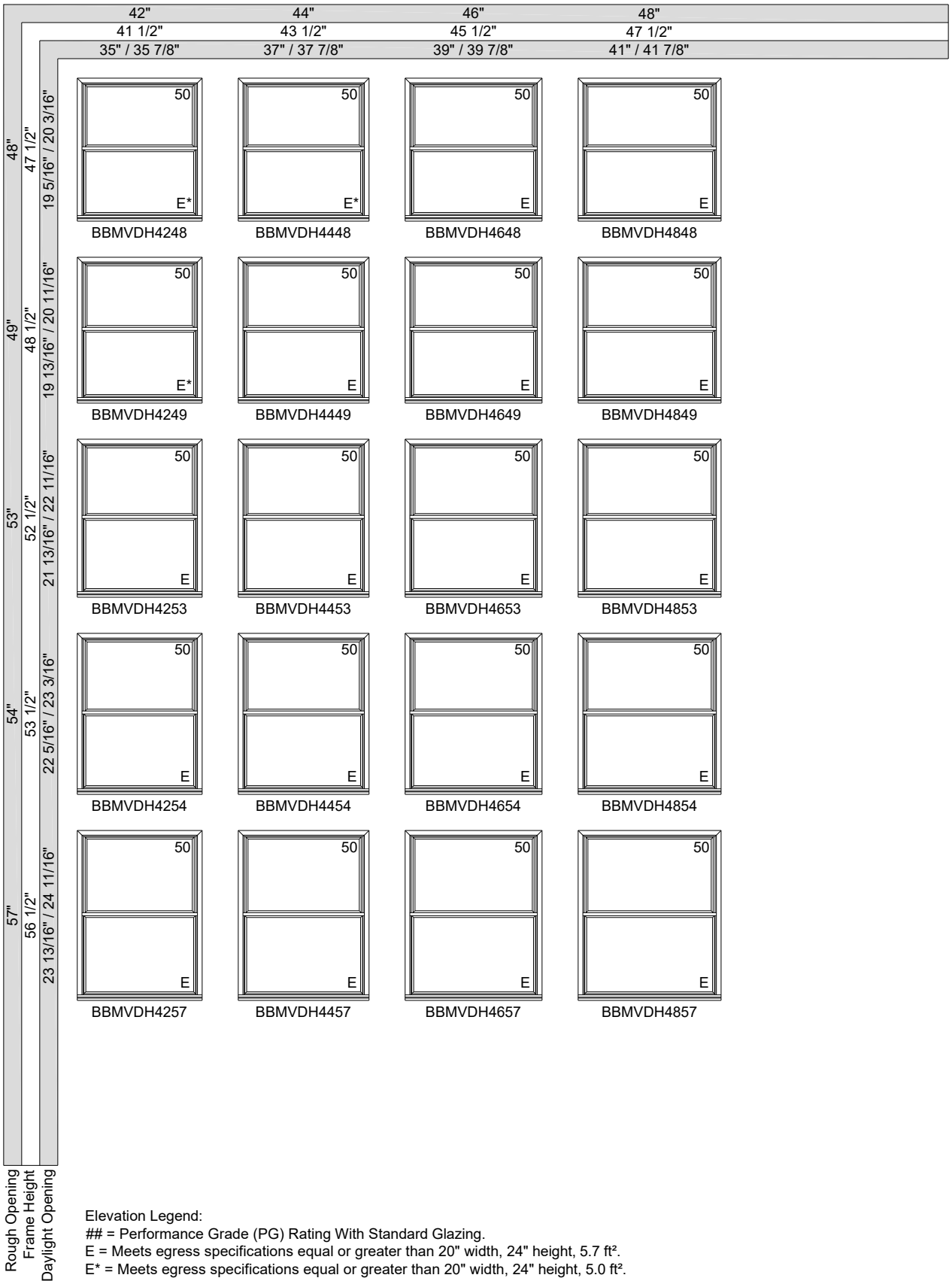
SINGLE UNITS

Rough Opening	42"	44"	46"	48"
Frame Width	41 1/2"	43 1/2"	45 1/2"	47 1/2"
Daylight Opening	35" / 35 7/8"	37" / 37 7/8"	39" / 39 7/8"	41" / 41 7/8"
30" / 29 1/2" / 10 5/16" / 11 3/16"	50 BBMVDH4230	50 BBMVDH4430	50 BBMVDH4630	50 BBMVDH4830
36" / 35 1/2" / 13 5/16" / 14 3/16"	50 BBMVDH4236	50 BBMVDH4436	50 BBMVDH4636	50 BBMVDH4836
37" / 36 1/2" / 13 13/16" / 14 11/16"	50 BBMVDH4237	50 BBMVDH4437	50 BBMVDH4637	50 BBMVDH4837
38" / 37 1/2" / 14 5/16" / 15 3/16"	50 BBMVDH4238	50 BBMVDH4438	50 BBMVDH4638	50 BBMVDH4838
41" / 40 1/2" / 15 13/16" / 16 11/16"	50 BBMVDH4241	50 BBMVDH4441	50 BBMVDH4641	50 E* BBMVDH4841
42" / 41 1/2" / 16 5/16" / 17 3/16"	50 BBMVDH4242	50 BBMVDH4442	50 E* BBMVDH4642	50 E* BBMVDH4842

Rough Opening / Frame Height / Daylight Opening

Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

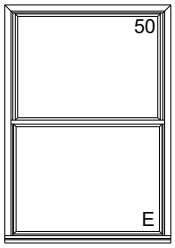
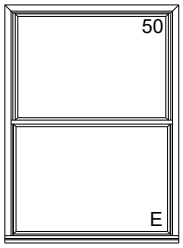
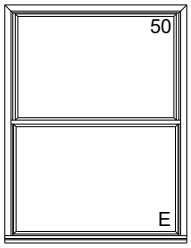
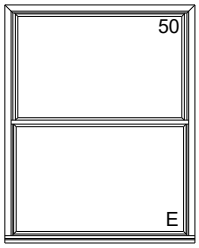
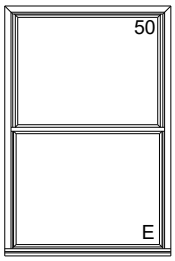
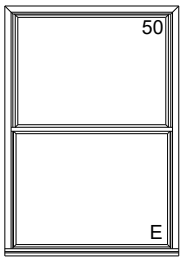
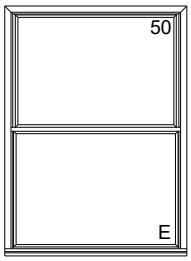
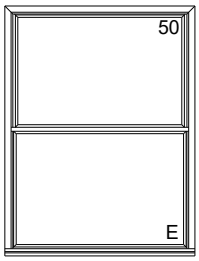
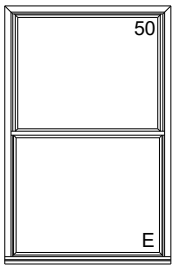
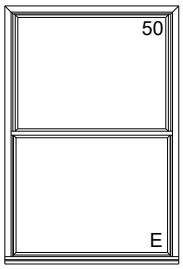
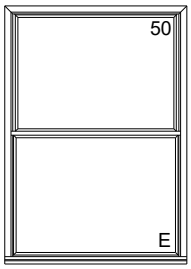
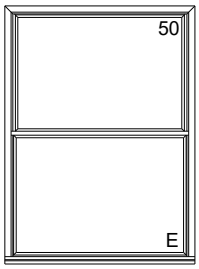
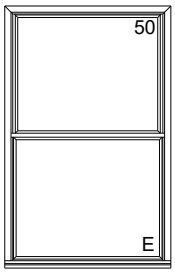
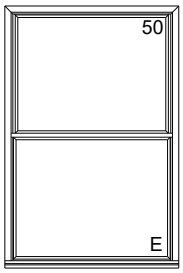
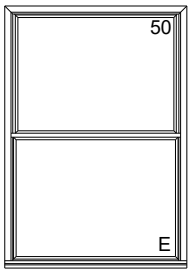
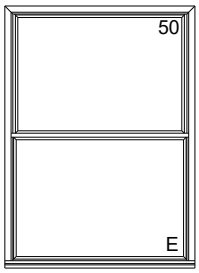
SINGLE UNITS



Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

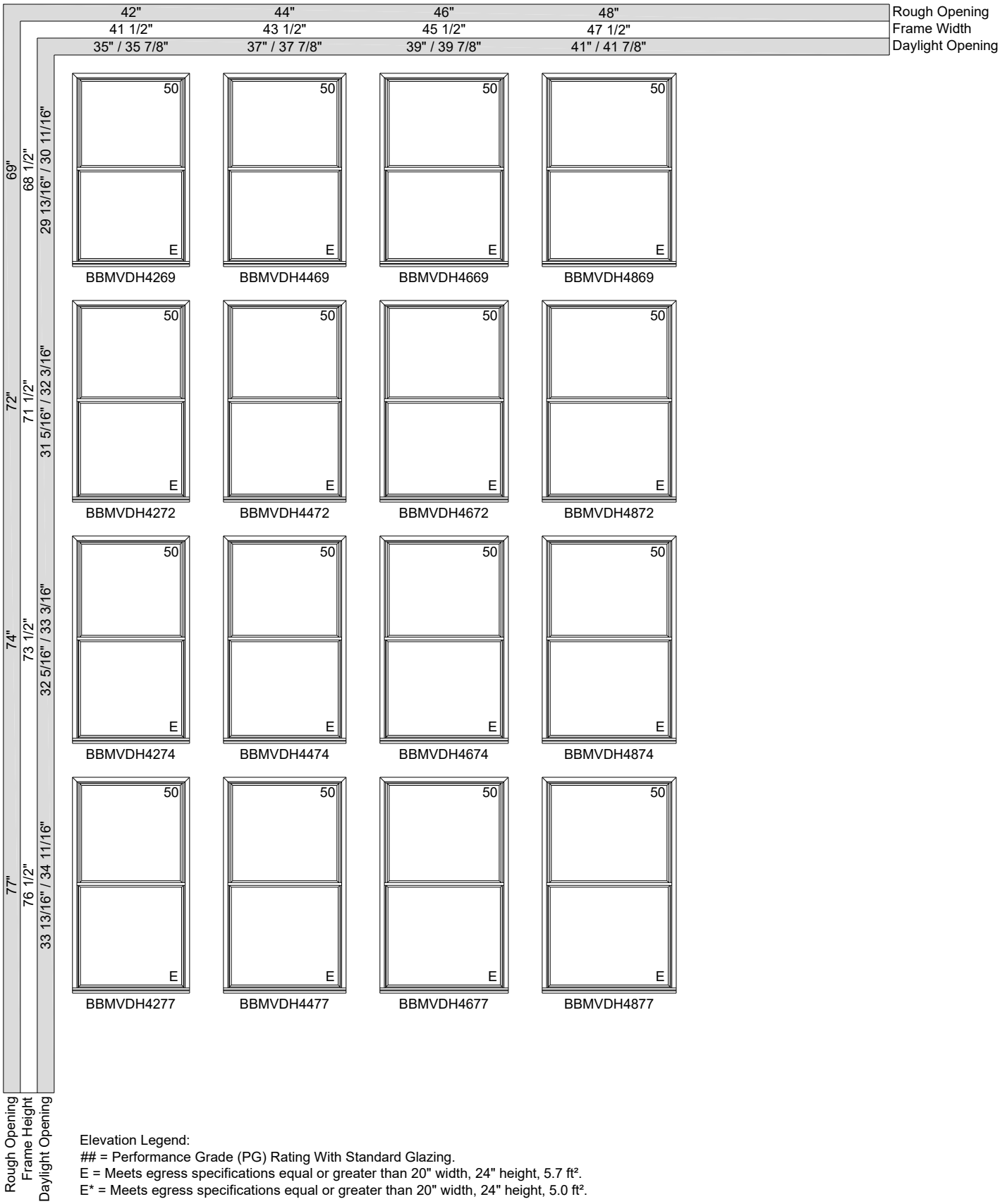
SINGLE UNITS

42"	44"	46"	48"	Rough Opening
41 1/2"	43 1/2"	45 1/2"	47 1/2"	Frame Width
35" / 35 7/8"	37" / 37 7/8"	39" / 39 7/8"	41" / 41 7/8"	Daylight Opening

Rough Opening	Frame Height	Daylight Opening				
60"	59 1/2"	25 5/16" / 26 3/16"	 BBMVDH4260	 BBMVDH4460	 BBMVDH4660	 BBMVDH4860
62"	61 1/2"	26 5/16" / 27 3/16"	 BBMVDH4262	 BBMVDH4462	 BBMVDH4662	 BBMVDH4862
65"	64 1/2"	27 13/16" / 28 11/16"	 BBMVDH4265	 BBMVDH4465	 BBMVDH4665	 BBMVDH4865
66"	65 1/2"	28 5/16" / 29 3/16"	 BBMVDH4266	 BBMVDH4466	 BBMVDH4666	 BBMVDH4866

Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².

SINGLE UNITS



Elevation Legend:
= Performance Grade (PG) Rating With Standard Glazing.
E = Meets egress specifications equal or greater than 20" width, 24" height, 5.7 ft².
E* = Meets egress specifications equal or greater than 20" width, 24" height, 5.0 ft².