



Technical Specifications

By

Mathews Brothers Company

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**U-factor:**

Also known as thermal transmittance. For U-factor, the lower the number the slower the rate of heat flow and the better the insulating quality. This is the heat transfer per time per area and per degree of temperature difference as calculated per ANSI/NFRC 100 Procedure for Determining Fenestration Product U-factors. This can be expressed in the Imperial System as BTU/h\*ft<sup>2</sup>\*°F (United States) or in the International System as W/m<sup>2</sup>K (Canada, Europe). Total product U-factor takes several variables into account including the frame, edge of glazing, and the center of glass values. U-factor can also be converted to R-factor by taking the inverse; 1 divided by U-factor. For example, 1 divided by a U-factor of 0.30 equates to a 3.33 R-factor.

**SHGC:**

SHGC stands for Solar Heat Gain Coefficient. This is the ratio of solar radiation that can pass through a window and released as heat inside the home. A SHGC rating of 0.30 means that 30% of the solar heat can pass through the window. A lower or higher rating is not necessarily beneficial and is dependent on the particular building and situation. While a relatively high SHGC used in certain conditions can warm a cold room in the winter, the same value can cause discomfort and added cooling costs during other seasons or conditions.

**VT:**

VT stands for Visible Transmittance. VT is the amount of visible light, expressed as a percentage, that can pass through a window. A 0.50 rating means that 50% of the visible light can pass through the window.

**CR:**

CR stands for Condensation Resistance. CR is the relative ability of a product to resist condensation with a higher value indicating a greater resistance to condensation. This is a unitless value.

**IECC:**

IECC stands for International Energy Conservation Code. This code sets minimum efficiency standards for commercial and residential construction for windows and doors as well as most other aspects of the structure.

**Energy Star:**

Energy Star is a voluntary program administered by the EPA (Environmental Protection Agency) that sets energy efficiency specifications. Products that meet the specifications can be labeled with the Energy Star logo.

**ENERGY STAR® Certification Criteria for Residential Windows**

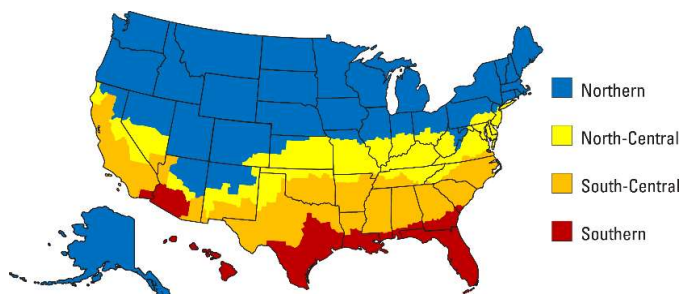
WINDOWS			
Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Northern	≤ 0.22	≥ 0.17	Prescriptive
	= 0.23	≥ 0.35	
	= 0.24		
	= 0.25		
	= 0.26		
North-Central	≤ 0.25	≤ 0.40	Equivalent Energy Performance
South-Central	≤ 0.28	≤ 0.23	
Southern	≤ 0.32	≤ 0.23	

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>  
<sup>1</sup> Btu/h-ft<sup>2</sup>-°F  
<sup>2</sup> Solar Heat Gain Coefficient

**ENERGY STAR® Certification Criteria for Residential Doors**

DOORS				
Glazing Level	Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Opaque	All Zones	≤ 0.17	No Rating	
≤ ½-Lite	All Zones	≤ 0.23	≤ 0.23	
	> ½-Lite	Northern	≤ 0.26	≤ 0.40
		North-Central		
		South-Central	≤ 0.28	≤ 0.23
		Southern		

Air Leakage for Sliding Doors ≤ 0.3 cfm/ft<sup>2</sup>  
 Air Leakage for Swinging Doors ≤ 0.5 cfm/ft<sup>2</sup>  
<sup>1</sup> Btu/h-ft<sup>2</sup>-°F  
<sup>2</sup> Solar Heat Gain Coefficient



### **Performance Class:**

The performance class is a designation given to windows and doors based on their air, water, and structural performance against a set of requirements specified in the North American Fenestration Standard/Specifications for windows, doors, and skylights.

The classes are: (excerpted from AAMA/WDMA/CSA 101/I.S./A440)

R: Commonly used in one and two-family dwellings.

LC: Commonly used in low-rise and mid-rise multi-family dwellings and other buildings where larger sizes and higher loading requirements are expected.

CW: Commonly used in low-rise and mid-rise buildings where larger sizes, higher loading requirements, limits on deflection, and heavy use are expected.

AW: Commonly used in high-rise and mid-rise buildings to meet increased loading requirements and limits on deflection, and in buildings where frequent and extreme use of the fenestration products is expected.

The performance class descriptions are intended to be a general guideline with the final determination of product being based on the performance requirements of the project.

### **Performance Grade (PG):**

A window or a door achieves a performance grade based on it passing all of the required tests for the product type and performance class. These tests include operating force, air leakage, water penetration resistance, uniform load deflection, uniform load structural resistance, and forced-entry resistance. Each performance class will have their own criteria to achieve performance grade levels including minimum product test sizes and deflection limits.

### Double Hung Window Thermal Performance

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.27	0.27	0.50	58	Yes	-	-	-	-
Dual Pane Low-E (Cardinal 270)	0.30	0.27	0.50	54	Yes	-	-	-	-
Dual Pane Clear	0.43	0.57	0.59	48	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.27	0.27	0.50	56	Yes	-	-	-	-
Dual Pane Low-E Tempered (Cardinal 270)	0.31	0.27	0.50	53	-	-	-	-	-
Dual Pane Clear Tempered	0.43	0.57	0.59	43	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.26	0.44	0.55	59	Yes	N	-	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.26	0.44	0.55	59	Yes	N	-	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.23	0.25	0.46	67	Yes	-	NC	-	-
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.20	0.23	0.39	71	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.24	0.25	0.46	64	Yes	-	NC	-	-
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.20	0.23	0.39	68	Yes	N	NC	SC	S
Triple Pane E7 (Cardinal 270)	0.22	0.25	0.46	67	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 180)	0.24	0.43	0.52	64	Yes	N	-	-	-

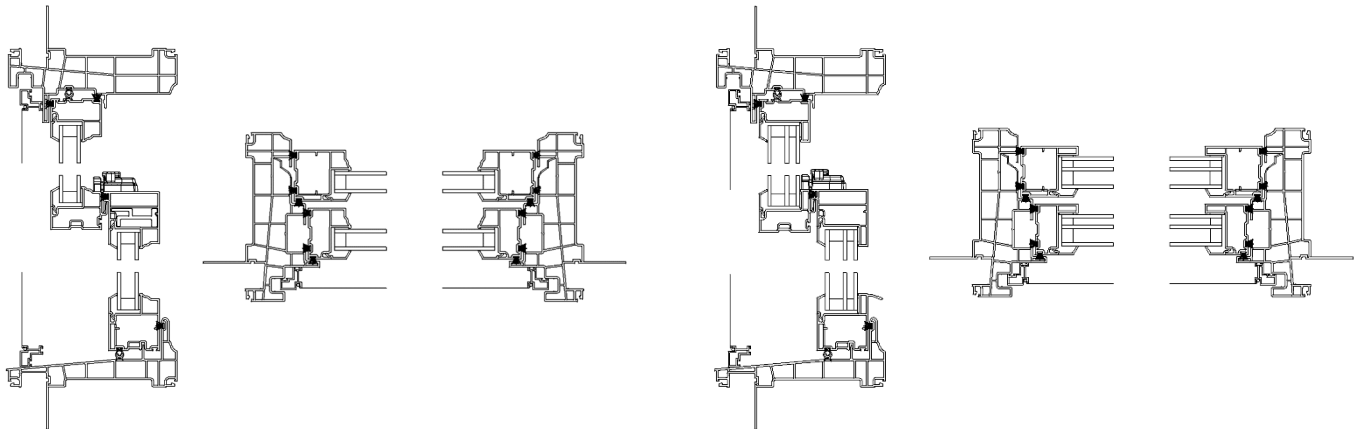
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.
































































### Double Hung Window Structural Performance (Dual and Triple Pane Glazing)

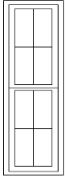
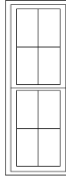





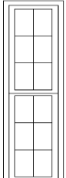
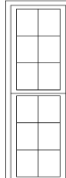
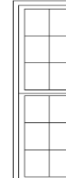




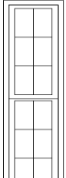






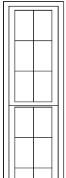
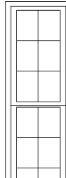
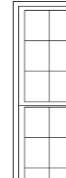




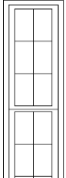






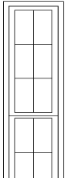






Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Hidden Tilt Latches	48 x 84	Single	PG50	LC
Standard Tilt Latches	48 x 84	Single	PG50	LC
Hidden Tilt Latches	44 x 94	Single	PG40	LC
Standard Tilt Latches	44 x 94	Single	PG45	LC

#### Detail Drawings:

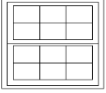
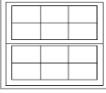
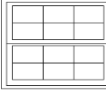
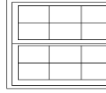
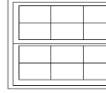
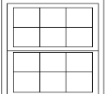
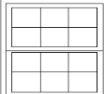


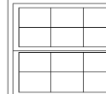
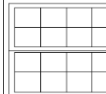
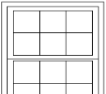
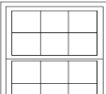

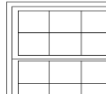
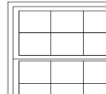
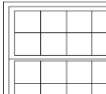
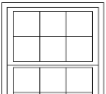
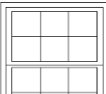

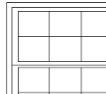
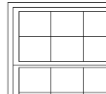
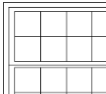
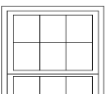
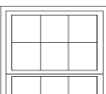
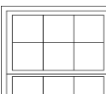
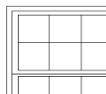
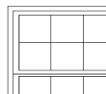
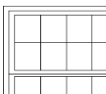
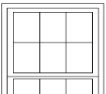
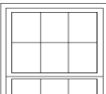

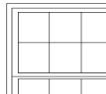
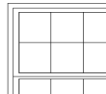
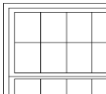
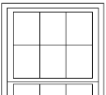
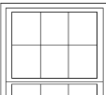
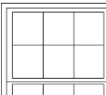
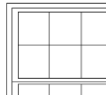
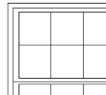
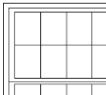
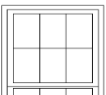
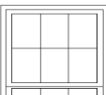
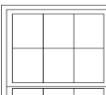
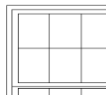
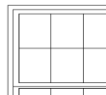
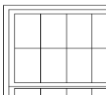
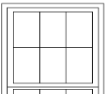
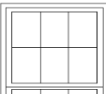

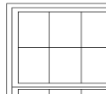
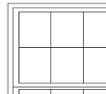
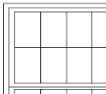


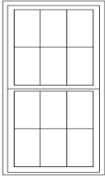
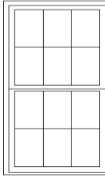
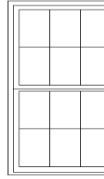
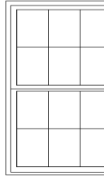
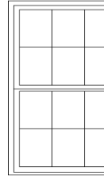
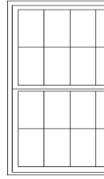
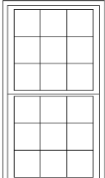
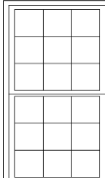
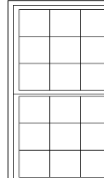

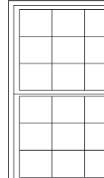
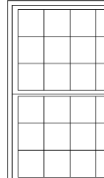
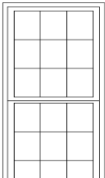
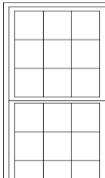




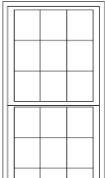
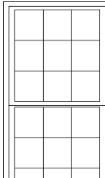


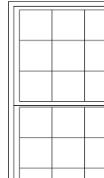

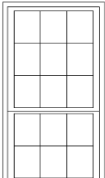
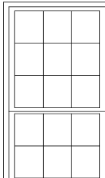


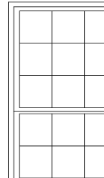
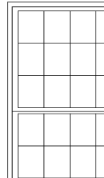
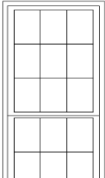
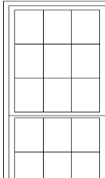
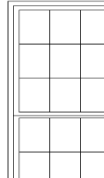

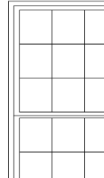

For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2		
Frame Size	20	22	24	26	28	30	32		
Call Size	12	14	16	18	20	22	24		
34 1/2	34	12	 DH1212	 DH1412	 DH1612	 DH1812	 DH2012	 DH2212	 DH2412
38 1/2	38	14	 DH1214	 DH1414	 DH1614	 DH1814	 DH2014	 DH2214	 DH2414
42 1/2	42	16	 DH1216	 DH1416	 DH1616	 DH1816	 DH2016	 DH2216	 DH2416
46 1/2	46	18	 DH1218	 DH1418	 DH1618	 DH1818	 DH2018	 DH2218	 DH2418
50 1/2	50	20	 DH1220	 DH1420	 DH1620	 DH1820	 DH2020	 DH2220	 DH2420
54 1/2	54	22	 DH1222	 DH1422	 DH1622	 DH1822	 DH2022	 DH2222	 DH2422
58 1/2	58	24	 DH1224	 DH1424	 DH1624	 DH1824	 DH2024	 DH2224	 DH2424
60 1/2	60	25	 DH1225	 DH1425	 DH1625	 DH1825	 DH2025	 DH2225	 DH2425
62 1/2	62	26	 DH1226	 DH1426	 DH1626	 DH1826	 DH2026	 DH2226	 DH2426

Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2		
Frame Size	20	22	24	26	28	30	32		
Call Size	12	14	16	18	20	22	24		
66 1/2	66	28							
			DH1228	DH1428	DH1628	DH1828	DH2028	DH2228	DH2428
70 1/2	70	30							
			DH1230	DH1430	DH1630	DH1830	DH2030	DH2230	DH2430
74 1/2	74	32							
			DH1232	DH1432	DH1632	DH1832	DH2032	DH2232	DH2432
78 1/2	78	34							
			DH1234	DH1434	DH1634	DH1834	DH2034	DH2234	DH2434
82 1/2	82	36							
			DH1236	DH1436	DH1636	DH1836	DH2036	DH2236	DH2436
86 1/2	86	38							
			DH1238	DH1438	DH1638	DH1838	DH2038	DH2238	DH2438

Double Hung Dual Pane

Rough Opening	34 1/2	36 1/2	38 1/2	39 1/2	40 1/2	42 1/2
Frame Size	34	36	38	39	40	42
Call Size	26	28	30	31	32	34
34 1/2	34					
	12					
						
	DH2612	DH2812	DH3012	DH3112	DH3212	
38 1/2						
		14				
						
	DH2614	DH2814	DH3014	DH3114	DH3214	DH3414
42 1/2						
		16				
						
	DH2616	DH2816	DH3016	DH3116	DH3216	DH3416
46 1/2						
		18				
						
	DH2618	DH2818	DH3018	DH3118	DH3218	DH3418
50 1/2						
		20				
						
	DH2620	DH2820	DH3020	DH3120	DH3220	DH3420
54 1/2						
		22				
						
	DH2622	DH2822	DH3022	DH3122	DH3222	DH3422
58 1/2						
		24				
						
	DH2624	DH2824	DH3024	DH3124	DH3224	DH3424
60 1/2						
		25				
						
	DH2625	DH2825	DH3025	DH3125	DH3225	DH3425
62 1/2						
		26				
						
	DH2626	DH2826	DH3026	DH3126	DH3226	DH3426

Rough Opening	34 1/2	36 1/2	38 1/2	39 1/2	40 1/2	42 1/2		
Frame Size	34	36	38	39	40	42		
Call Size	26	28	30	31	32	34		
66 1/2	66	28						
			DH2628	DH2828	DH3028	DH3128	DH3228	DH3428
70 1/2	70	30						
			DH2630	DH2830	DH3030	DH3130	DH3230	DH3430
74 1/2	74	32						
			DH2632	DH2832	DH3032	DH3132	DH3232	DH3432
78 1/2	78	34						
			DH2634	DH2834	DH3034	DH3134	DH3234	DH3434
82 1/2	82	36						
			DH2636	DH2836	DH3036	DH3136	DH3236	DH3436
86 1/2	86	38						
			DH2638	DH2838	DH3038	DH3138	DH3238	DH3438

Rough Opening			20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2
	Frame Size		20	22	24	26	28	30	32
		Call Size	12	14	16	18	20	22	24
34 1/2	34	12	DH1212	DH1412	DH1612	DH1812	DH2012	DH2212	DH2412
38 1/2	38	14	DH1214	DH1414	DH1614	DH1814	DH2014	DH2214	DH2414
42 1/2	42	16	DH1216	DH1416	DH1616	DH1816	DH2016	DH2216	DH2416
46 1/2	46	18	DH1218	DH1418	DH1618	DH1818	DH2018	DH2218	DH2418
50 1/2	50	20	DH1220	DH1420	DH1620	DH1820	DH2020	DH2220	DH2420
54 1/2	54	22	DH1222	DH1422	DH1622	DH1822	DH2022	DH2222	DH2422
58 1/2	58	24	DH1224	DH1424	DH1624	DH1824	DH2024	DH2224	DH2424
60 1/2	60	25	DH1225	DH1425	DH1625	DH1825	DH2025	DH2225	DH2425
62 1/2	62	26	DH1226	DH1426	DH1626	DH1826	DH2026	DH2226	DH2426
66 1/2	66	28	DH1228	DH1428	DH1628	DH1828	DH2028	DH2228	DH2428
70 1/2	70	30	DH1230	DH1430	DH1630	DH1830	DH2030	DH2230	DH2430
74 1/2	74	32	DH1232	DH1432	DH1632	DH1832	DH2032	DH2232	DH2432
78 1/2	78	34	DH1234	DH1434	DH1634	DH1834	DH2034	DH2234	DH2434
82 1/2	82	36	DH1236	DH1436	DH1636	DH1836	DH2036	DH2236	DH2436
86 1/2	86	38	DH1238	DH1438	DH1638	DH1838	DH2038	DH2238	DH2438

Rough Opening			34 1/2	36 1/2	38 1/2	39 1/2	40 1/2	42 1/2
	Frame Size		34	36	38	39	40	42
		Call Size	26	28	30	31	32	34
34 1/2	34	12	DH2612	DH2812	DH3012	DH3112	DH3212	
38 1/2	38	14	DH2614	DH2814	DH3014	DH3114	DH3214	DH3414
42 1/2	42	16	DH2616	DH2816	DH3016	DH3116	DH3216	DH3416
46 1/2	46	18	DH2618	DH2818	DH3018	DH3118	DH3218	DH3418
50 1/2	50	20	DH2620	DH2820	DH3020	DH3120	DH3220	DH3420
54 1/2	54	22	DH2622	DH2822	DH3022	DH3122	DH3222	DH3422
58 1/2	58	24	DH2624	DH2824	DH3024	DH3124	DH3224	DH3424
60 1/2	60	25	DH2625	DH2825	DH3025	DH3125	DH3225	DH3425
62 1/2	62	26	DH2626	DH2826	DH3026	DH3126	DH3226	DH3426
66 1/2	66	28	DH2628	DH2828	DH3028	DH3128	DH3228	DH3428
70 1/2	70	30	DH2630	DH2830	DH3030	DH3130	DH3230	DH3430
74 1/2	74	32	DH2632	DH2832	DH3032	DH3132	DH3232	DH3432
78 1/2	78	34	DH2634	DH2834	DH3034	DH3134	DH3234	DH3434
82 1/2	82	36	DH2636	DH2836	DH3036	DH3136	DH3236	DH3436
86 1/2	86	38	DH2638	DH2838	DH3038	DH3138	DH3238	DH3438

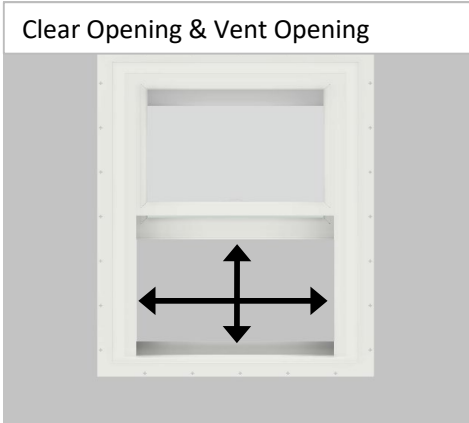
Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH1212	12	12	14 11/16	12	1.2	1.2
DH1214	12	14	14 11/16	14	1.4	1.4
DH1216	12	16	14 11/16	16	1.6	1.6
DH1218	12	18	14 11/16	18	1.8	1.8
DH1220	12	20	14 11/16	20	2.0	2.0
DH1222	12	22	14 11/16	22	2.2	2.2
DH1224	12	24	14 11/16	24	2.4	2.4
DH1225	12	25	14 11/16	25	2.5	2.5
DH1226	12	26	14 11/16	26	2.6	2.6
DH1228	12	28	14 11/16	28	2.8	2.8
DH1230	12	30	14 11/16	30	3.0	3.0
DH1232	12	32	14 11/16	32	3.2	3.2
DH1234	12	34	14 11/16	34	3.4	3.4
DH1236	12	36	14 11/16	36	3.6	3.6
DH1238	12	38	14 11/16	38	3.8	3.8
DH1412	14	12	16 11/16	12	1.3	1.3
DH1414	14	14	16 11/16	14	1.6	1.6
DH1416	14	16	16 11/16	16	1.8	1.8
DH1418	14	18	16 11/16	18	2.0	2.0
DH1420	14	20	16 11/16	20	2.3	2.3
DH1422	14	22	16 11/16	22	2.5	2.5
DH1424	14	24	16 11/16	24	2.7	2.7
DH1425	14	25	16 11/16	25	2.8	2.8
DH1426	14	26	16 11/16	26	3.0	3.0
DH1428	14	28	16 11/16	28	3.2	3.2
DH1430	14	30	16 11/16	30	3.4	3.4
DH1432	14	32	16 11/16	32	3.7	3.7
DH1434	14	34	16 11/16	34	3.9	3.9
DH1436	14	36	16 11/16	36	4.1	4.1
DH1438	14	38	16 11/16	38	4.4	4.4
DH1612	16	12	18 11/16	12	1.5	1.5
DH1614	16	14	18 11/16	14	1.8	1.8
DH1616	16	16	18 11/16	16	2.0	2.0
DH1618	16	18	18 11/16	18	2.3	2.3
DH1620	16	20	18 11/16	20	2.5	2.5
DH1622	16	22	18 11/16	22	2.8	2.8
DH1624	16	24	18 11/16	24	3.1	3.1
DH1625	16	25	18 11/16	25	3.2	3.2
DH1626	16	26	18 11/16	26	3.3	3.3
DH1628	16	28	18 11/16	28	3.6	3.6
DH1630	16	30	18 11/16	30	3.8	3.8
DH1632	16	32	18 11/16	32	4.1	4.1
DH1634	16	34	18 11/16	34	4.4	4.4
DH1636	16	36	18 11/16	36	4.6	4.6
DH1638	16	38	18 11/16	38	4.9	4.9

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH1812	18	12	20 11/16	12	1.7	1.7
DH1814	18	14	20 11/16	14	2.0	2.0
DH1816	18	16	20 11/16	16	2.2	2.2
DH1818	18	18	20 11/16	18	2.5	2.5
DH1820	18	20	20 11/16	20	2.8	2.8
DH1822	18	22	20 11/16	22	3.1	3.1
DH1824	18	24	20 11/16	24	3.4	3.4
DH1825	18	25	20 11/16	25	3.5	3.5
DH1826	18	26	20 11/16	26	3.7	3.7
DH1828	18	28	20 11/16	28	4.0	4.0
DH1830	18	30	20 11/16	30	4.3	4.3
DH1832	18	32	20 11/16	32	4.5	4.5
DH1834	18	34	20 11/16	34	4.8	4.8
DH1836	18	36	20 11/16	36	5.1	5.1
DH1838	18	38	20 11/16	38	5.4	5.4
DH2012	20	12	22 11/16	12	1.8	1.8
DH2014	20	14	22 11/16	14	2.2	2.2
DH2016	20	16	22 11/16	16	2.5	2.5
DH2018	20	18	22 11/16	18	2.8	2.8
DH2020	20	20	22 11/16	20	3.1	3.1
DH2022	20	22	22 11/16	22	3.4	3.4
DH2024	20	24	22 11/16	24	3.7	3.7
DH2025	20	25	22 11/16	25	3.9	3.9
DH2026	20	26	22 11/16	26	4.0	4.0
DH2028	20	28	22 11/16	28	4.4	4.4
DH2030	20	30	22 11/16	30	4.7	4.7
DH2032	20	32	22 11/16	32	5.0	5.0
DH2034	20	34	22 11/16	34	5.3	5.3
DH2036	20	36	22 11/16	36	5.6	5.6
DH2038	20	38	22 11/16	38	5.9	5.9
DH2212	22	12	24 11/16	12	2.0	2.0
DH2214	22	14	24 11/16	14	2.4	2.4
DH2216	22	16	24 11/16	16	2.7	2.7
DH2218	22	18	24 11/16	18	3.0	3.0
DH2220	22	20	24 11/16	20	3.4	3.4
DH2222	22	22	24 11/16	22	3.7	3.7
DH2224	22	24	24 11/16	24	4.1	4.1
DH2225	22	25	24 11/16	25	4.2	4.2
DH2226	22	26	24 11/16	26	4.4	4.4
DH2228	22	28	24 11/16	28	4.8	4.8
DH2230	22	30	24 11/16	30	5.1	5.1
DH2232	22	32	24 11/16	32	5.4	5.4
DH2234	22	34	24 11/16	34	5.8	5.8
DH2236	22	36	24 11/16	36	6.1	6.1
DH2238	22	38	24 11/16	38	6.5	6.5

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH2412	24	12	26 11/16	12	2.2	2.2
DH2414	24	14	26 11/16	14	2.5	2.5
DH2416	24	16	26 11/16	16	2.9	2.9
DH2418	24	18	26 11/16	18	3.3	3.3
DH2420	24	20	26 11/16	20	3.7	3.7
DH2422	24	22	26 11/16	22	4.0	4.0
DH2424	24	24	26 11/16	24	4.4	4.4
DH2425	24	25	26 11/16	25	4.6	4.6
DH2426	24	26	26 11/16	26	4.8	4.8
DH2428	24	28	26 11/16	28	5.1	5.1
DH2430	24	30	26 11/16	30	5.5	5.5
DH2432	24	32	26 11/16	32	5.9	5.9
DH2434	24	34	26 11/16	34	6.3	6.3
DH2436	24	36	26 11/16	36	6.6	6.6
DH2438	24	38	26 11/16	38	7.0	7.0
DH2612	26	12	28 11/16	12	2.3	2.3
DH2614	26	14	28 11/16	14	2.7	2.7
DH2616	26	16	28 11/16	16	3.1	3.1
DH2618	26	18	28 11/16	18	3.5	3.5
DH2620	26	20	28 11/16	20	3.9	3.9
DH2622	26	22	28 11/16	22	4.3	4.3
DH2624	26	24	28 11/16	24	4.7	4.7
DH2625	26	25	28 11/16	25	4.9	4.9
DH2626	26	26	28 11/16	26	5.1	5.1
DH2628	26	28	28 11/16	28	5.5	5.5
DH2630	26	30	28 11/16	30	5.9	5.9
DH2632	26	32	28 11/16	32	6.3	6.3
DH2634	26	34	28 11/16	34	6.7	6.7
DH2636	26	36	28 11/16	36	7.1	7.1
DH2638	26	38	28 11/16	38	7.5	7.5
DH2812	28	12	30 11/16	12	2.5	2.5
DH2814	28	14	30 11/16	14	2.9	2.9
DH2816	28	16	30 11/16	16	3.4	3.4
DH2818	28	18	30 11/16	18	3.8	3.8
DH2820	28	20	30 11/16	20	4.2	4.2
DH2822	28	22	30 11/16	22	4.6	4.6
DH2824	28	24	30 11/16	24	5.1	5.1
DH2825	28	25	30 11/16	25	5.3	5.3
DH2826	28	26	30 11/16	26	5.5	5.5
DH2828	28	28	30 11/16	28	5.9	5.9
DH2830	28	30	30 11/16	30	6.3	6.3
DH2832	28	32	30 11/16	32	6.8	6.8
DH2834	28	34	30 11/16	34	7.2	7.2
DH2836	28	36	30 11/16	36	7.6	7.6
DH2838	28	38	30 11/16	38	8.0	8.0

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH3012	30	12	32 11/16	12	2.7	2.7
DH3014	30	14	32 11/16	14	3.1	3.1
DH3016	30	16	32 11/16	16	3.6	3.6
DH3018	30	18	32 11/16	18	4.0	4.0
DH3020	30	20	32 11/16	20	4.5	4.5
DH3022	30	22	32 11/16	22	4.9	4.9
DH3024	30	24	32 11/16	24	5.4	5.4
DH3025	30	25	32 11/16	25	5.6	5.6
DH3026	30	26	32 11/16	26	5.9	5.9
DH3028	30	28	32 11/16	28	6.3	6.3
DH3030	30	30	32 11/16	30	6.8	6.8
DH3032	30	32	32 11/16	32	7.2	7.2
DH3034	30	34	32 11/16	34	7.7	7.7
DH3036	30	36	32 11/16	36	8.1	8.1
DH3038	30	38	32 11/16	38	8.6	8.6
DH3112	31	12	33 11/16	12	2.8	2.8
DH3114	31	14	33 11/16	14	3.2	3.2
DH3116	31	16	33 11/16	16	3.7	3.7
DH3118	31	18	33 11/16	18	4.2	4.2
DH3120	31	20	33 11/16	20	4.6	4.6
DH3122	31	22	33 11/16	22	5.1	5.1
DH3124	31	24	33 11/16	24	5.6	5.6
DH3125	31	25	33 11/16	25	5.8	5.8
DH3126	31	26	33 11/16	26	6.0	6.0
DH3128	31	28	33 11/16	28	6.5	6.5
DH3130	31	30	33 11/16	30	7.0	7.0
DH3132	31	32	33 11/16	32	7.4	7.4
DH3134	31	34	33 11/16	34	7.9	7.9
DH3136	31	36	33 11/16	36	8.4	8.4
DH3138	31	38	33 11/16	38	8.8	8.8
DH3212	32	12	34 11/16	12	2.8	2.8
DH3214	32	14	34 11/16	14	3.3	3.3
DH3216	32	16	34 11/16	16	3.8	3.8
DH3218	32	18	34 11/16	18	4.3	4.3
DH3220	32	20	34 11/16	20	4.8	4.8
DH3222	32	22	34 11/16	22	5.2	5.2
DH3224	32	24	34 11/16	24	5.7	5.7
DH3225	32	25	34 11/16	25	6.0	6.0
DH3226	32	26	34 11/16	26	6.2	6.2
DH3228	32	28	34 11/16	28	6.7	6.7
DH3230	32	30	34 11/16	30	7.2	7.2
DH3232	32	32	34 11/16	32	7.7	7.7
DH3234	32	34	34 11/16	34	8.1	8.1
DH3236	32	36	34 11/16	36	8.6	8.6
DH3238	32	38	34 11/16	38	9.1	9.1

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH3414	34	14	36 11/16	14	3.5	3.5
DH3416	34	16	36 11/16	16	4.0	4.0
DH3418	34	18	36 11/16	18	4.5	4.5
DH3420	34	20	36 11/16	20	5.0	5.0
DH3422	34	22	36 11/16	22	5.6	5.6
DH3424	34	24	36 11/16	24	6.1	6.1
DH3425	34	25	36 11/16	25	6.3	6.3
DH3426	34	26	36 11/16	26	6.6	6.6
DH3428	34	28	36 11/16	28	7.1	7.1
DH3430	34	30	36 11/16	30	7.6	7.6
DH3432	34	32	36 11/16	32	8.1	8.1
DH3434	34	34	36 11/16	34	8.6	8.6
DH3436	34	36	36 11/16	36	9.1	9.1
DH3438	34	38	36 11/16	38	9.6	9.6



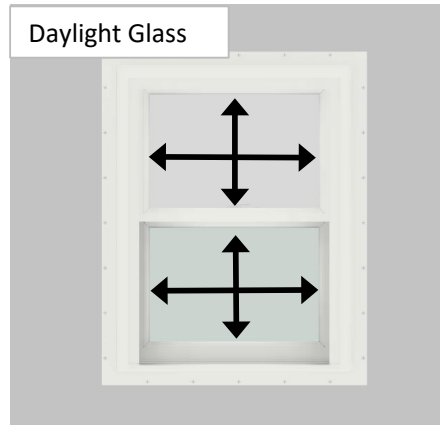
Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH1212	12 1/2	12 9/16	2.1	4.7
DH1214	12 1/2	14 9/16	2.5	5.2
DH1216	12 1/2	16 9/16	2.8	5.8
DH1218	12 1/2	18 9/16	3.2	6.3
DH1220	12 1/2	20 9/16	3.5	6.9
DH1222	12 1/2	22 9/16	3.9	7.5
DH1224	12 1/2	24 9/16	4.2	8.0
DH1225	12 1/2	25 9/16	4.4	8.3
DH1226	12 1/2	26 9/16	4.6	8.6
DH1228	12 1/2	28 9/16	4.9	9.1
DH1230	12 1/2	30 9/16	5.3	9.7
DH1232	12 1/2	32 9/16	5.6	10.2
DH1234	12 1/2	34 9/16	6.0	10.8
DH1236	12 1/2	36 9/16	6.3	11.3
DH1238	12 1/2	38 9/16	6.6	11.9
DH1412	14 1/2	12 9/16	2.5	5.1
DH1414	14 1/2	14 9/16	2.9	5.8
DH1416	14 1/2	16 9/16	3.3	6.4
DH1418	14 1/2	18 9/16	3.7	7.0
DH1420	14 1/2	20 9/16	4.1	7.6
DH1422	14 1/2	22 9/16	4.5	8.2
DH1424	14 1/2	24 9/16	4.9	8.8
DH1425	14 1/2	25 9/16	5.1	9.1
DH1426	14 1/2	26 9/16	5.3	9.4
DH1428	14 1/2	28 9/16	5.7	10.0
DH1430	14 1/2	30 9/16	6.1	10.6
DH1432	14 1/2	32 9/16	6.5	11.3
DH1434	14 1/2	34 9/16	6.9	11.9
DH1436	14 1/2	36 9/16	7.3	12.5
DH1438	14 1/2	38 9/16	7.7	13.1
DH1612	16 1/2	12 9/16	2.8	5.6
DH1614	16 1/2	14 9/16	3.3	6.3
DH1616	16 1/2	16 9/16	3.7	7.0
DH1618	16 1/2	18 9/16	4.2	7.6
DH1620	16 1/2	20 9/16	4.7	8.3
DH1622	16 1/2	22 9/16	5.1	9.0
DH1624	16 1/2	24 9/16	5.6	9.6
DH1625	16 1/2	25 9/16	5.8	10.0
DH1626	16 1/2	26 9/16	6.0	10.3
DH1628	16 1/2	28 9/16	6.5	11.0
DH1630	16 1/2	30 9/16	7.0	11.6
DH1632	16 1/2	32 9/16	7.4	12.3
DH1634	16 1/2	34 9/16	7.9	13.0
DH1636	16 1/2	36 9/16	8.3	13.6
DH1638	16 1/2	38 9/16	8.8	14.3

Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH1812	18 1/2	12 9/16	3.2	6.1
DH1814	18 1/2	14 9/16	3.7	6.8
DH1816	18 1/2	16 9/16	4.2	7.5
DH1818	18 1/2	18 9/16	4.7	8.3
DH1820	18 1/2	20 9/16	5.2	9.0
DH1822	18 1/2	22 9/16	5.8	9.7
DH1824	18 1/2	24 9/16	6.3	10.4
DH1825	18 1/2	25 9/16	6.5	10.8
DH1826	18 1/2	26 9/16	6.8	11.1
DH1828	18 1/2	28 9/16	7.3	11.9
DH1830	18 1/2	30 9/16	7.8	12.6
DH1832	18 1/2	32 9/16	8.3	13.3
DH1834	18 1/2	34 9/16	8.8	14.0
DH1836	18 1/2	36 9/16	9.3	14.8
DH1838	18 1/2	38 9/16	9.9	15.5
DH2012	20 1/2	12 9/16	3.5	6.6
DH2014	20 1/2	14 9/16	4.1	7.3
DH2016	20 1/2	16 9/16	4.7	8.1
DH2018	20 1/2	18 9/16	5.2	8.9
DH2020	20 1/2	20 9/16	5.8	9.7
DH2022	20 1/2	22 9/16	6.4	10.5
DH2024	20 1/2	24 9/16	6.9	11.2
DH2025	20 1/2	25 9/16	7.2	11.6
DH2026	20 1/2	26 9/16	7.5	12.0
DH2028	20 1/2	28 9/16	8.1	12.8
DH2030	20 1/2	30 9/16	8.7	13.6
DH2032	20 1/2	32 9/16	9.2	14.3
DH2034	20 1/2	34 9/16	9.8	15.1
DH2036	20 1/2	36 9/16	10.4	15.9
DH2038	20 1/2	38 9/16	10.9	16.7
DH2212	22 1/2	12 9/16	3.9	7.0
DH2214	22 1/2	14 9/16	4.5	7.9
DH2216	22 1/2	16 9/16	5.1	8.7
DH2218	22 1/2	18 9/16	5.8	9.5
DH2220	22 1/2	20 9/16	6.4	10.4
DH2222	22 1/2	22 9/16	7.0	11.2
DH2224	22 1/2	24 9/16	7.6	12.0
DH2225	22 1/2	25 9/16	7.9	12.5
DH2226	22 1/2	26 9/16	8.3	12.9
DH2228	22 1/2	28 9/16	8.9	13.7
DH2230	22 1/2	30 9/16	9.5	14.5
DH2232	22 1/2	32 9/16	10.1	15.4
DH2234	22 1/2	34 9/16	10.8	16.2
DH2236	22 1/2	36 9/16	11.4	17.0
DH2238	22 1/2	38 9/16	12.0	17.9

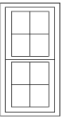
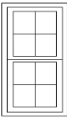

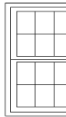



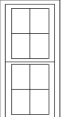
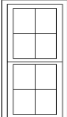

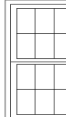

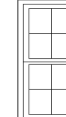
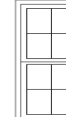
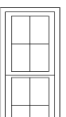
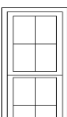
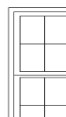
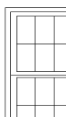

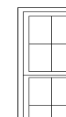
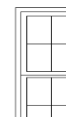





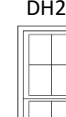
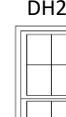














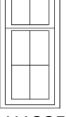




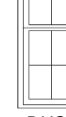
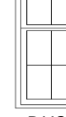
Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH2412	24 1/2	12 9/16	4.2	7.5
DH2414	24 1/2	14 9/16	4.9	8.4
DH2416	24 1/2	16 9/16	5.6	9.3
DH2418	24 1/2	18 9/16	6.3	10.2
DH2420	24 1/2	20 9/16	7.0	11.1
DH2422	24 1/2	22 9/16	7.6	12.0
DH2424	24 1/2	24 9/16	8.3	12.8
DH2425	24 1/2	25 9/16	8.7	13.3
DH2426	24 1/2	26 9/16	9.0	13.7
DH2428	24 1/2	28 9/16	9.7	14.6
DH2430	24 1/2	30 9/16	10.4	15.5
DH2432	24 1/2	32 9/16	11.0	16.4
DH2434	24 1/2	34 9/16	11.7	17.3
DH2436	24 1/2	36 9/16	12.4	18.2
DH2438	24 1/2	38 9/16	13.1	19.1
DH2612	26 1/2	12 9/16	4.6	8.0
DH2614	26 1/2	14 9/16	5.3	8.9
DH2616	26 1/2	16 9/16	6.1	9.9
DH2618	26 1/2	18 9/16	6.8	10.8
DH2620	26 1/2	20 9/16	7.5	11.8
DH2622	26 1/2	22 9/16	8.3	12.7
DH2624	26 1/2	24 9/16	9.0	13.6
DH2625	26 1/2	25 9/16	9.4	14.1
DH2626	26 1/2	26 9/16	9.7	14.6
DH2628	26 1/2	28 9/16	10.5	15.5
DH2630	26 1/2	30 9/16	11.2	16.5
DH2632	26 1/2	32 9/16	11.9	17.4
DH2634	26 1/2	34 9/16	12.7	18.4
DH2636	26 1/2	36 9/16	13.4	19.3
DH2638	26 1/2	38 9/16	14.1	20.3
DH2812	28 1/2	12 9/16	4.9	8.5
DH2814	28 1/2	14 9/16	5.7	9.5
DH2816	28 1/2	16 9/16	6.5	10.5
DH2818	28 1/2	18 9/16	7.3	11.5
DH2820	28 1/2	20 9/16	8.1	12.5
DH2822	28 1/2	22 9/16	8.9	13.5
DH2824	28 1/2	24 9/16	9.7	14.5
DH2825	28 1/2	25 9/16	10.1	15.0
DH2826	28 1/2	26 9/16	10.5	15.5
DH2828	28 1/2	28 9/16	11.3	16.5
DH2830	28 1/2	30 9/16	12.1	17.5
DH2832	28 1/2	32 9/16	12.8	18.5
DH2834	28 1/2	34 9/16	13.6	19.5
DH2836	28 1/2	36 9/16	14.4	20.5
DH2838	28 1/2	38 9/16	15.2	21.5

Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH3012	30 1/2	12 9/16	5.3	8.9
DH3014	30 1/2	14 9/16	6.1	10.0
DH3016	30 1/2	16 9/16	7.0	11.0
DH3018	30 1/2	18 9/16	7.8	12.1
DH3020	30 1/2	20 9/16	8.7	13.1
DH3022	30 1/2	22 9/16	9.5	14.2
DH3024	30 1/2	24 9/16	10.4	15.3
DH3025	30 1/2	25 9/16	10.8	15.8
DH3026	30 1/2	26 9/16	11.2	16.3
DH3028	30 1/2	28 9/16	12.1	17.4
DH3030	30 1/2	30 9/16	12.9	18.4
DH3032	30 1/2	32 9/16	13.8	19.5
DH3034	30 1/2	34 9/16	14.6	20.5
DH3036	30 1/2	36 9/16	15.4	21.6
DH3038	30 1/2	38 9/16	16.3	22.6
DH3112	31 1/2	12 9/16	5.5	9.2
DH3114	31 1/2	14 9/16	6.3	10.2
DH3116	31 1/2	16 9/16	7.2	11.3
DH3118	31 1/2	18 9/16	8.1	12.4
DH3120	31 1/2	20 9/16	9.0	13.5
DH3122	31 1/2	22 9/16	9.8	14.6
DH3124	31 1/2	24 9/16	10.7	15.7
DH3125	31 1/2	25 9/16	11.1	16.2
DH3126	31 1/2	26 9/16	11.6	16.7
DH3128	31 1/2	28 9/16	12.5	17.8
DH3130	31 1/2	30 9/16	13.3	18.9
DH3132	31 1/2	32 9/16	14.2	20.0
DH3134	31 1/2	34 9/16	15.1	21.1
DH3136	31 1/2	36 9/16	16.0	22.2
DH3138	31 1/2	38 9/16	16.8	23.2
DH3212	32 1/2	12 9/16	5.6	9.4
DH3214	32 1/2	14 9/16	6.5	10.5
DH3216	32 1/2	16 9/16	7.4	11.6
DH3218	32 1/2	18 9/16	8.3	12.7
DH3220	32 1/2	20 9/16	9.2	13.8
DH3222	32 1/2	22 9/16	10.1	15.0
DH3224	32 1/2	24 9/16	11.0	16.1
DH3225	32 1/2	25 9/16	11.5	16.6
DH3226	32 1/2	26 9/16	11.9	17.2
DH3228	32 1/2	28 9/16	12.9	18.3
DH3230	32 1/2	30 9/16	13.8	19.4
DH3232	32 1/2	32 9/16	14.7	20.5
DH3234	32 1/2	34 9/16	15.6	21.6
DH3236	32 1/2	36 9/16	16.5	22.7
DH3238	32 1/2	38 9/16	17.4	23.8

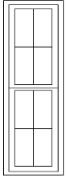
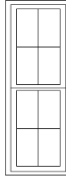





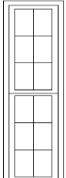
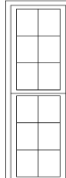
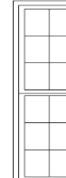




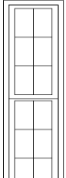






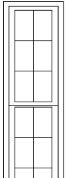
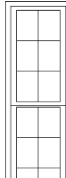
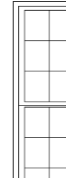



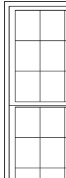
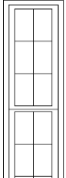






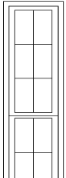






Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH3414	34 1/2	14 9/16	6.9	11.0
DH3416	34 1/2	16 9/16	7.9	12.2
DH3418	34 1/2	18 9/16	8.9	13.4
DH3420	34 1/2	20 9/16	9.8	14.5
DH3422	34 1/2	22 9/16	10.8	15.7
DH3424	34 1/2	24 9/16	11.7	16.9
DH3425	34 1/2	25 9/16	12.2	17.5
DH3426	34 1/2	26 9/16	12.7	18.0
DH3428	34 1/2	28 9/16	13.6	19.2
DH3430	34 1/2	30 9/16	14.6	20.4
DH3432	34 1/2	32 9/16	15.6	21.5
DH3434	34 1/2	34 9/16	16.5	22.7
DH3436	34 1/2	36 9/16	17.5	23.9
DH3438	34 1/2	38 9/16	18.4	25.0



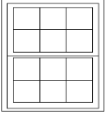
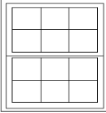
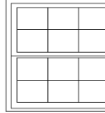
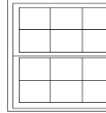
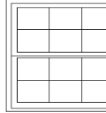
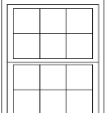
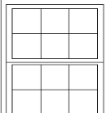
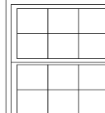
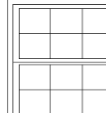

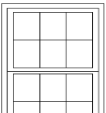
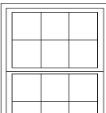

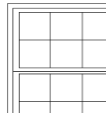

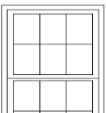
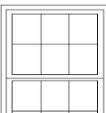
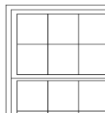
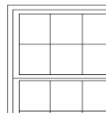
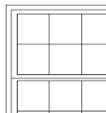
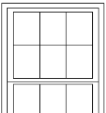
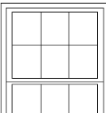
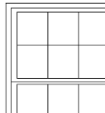
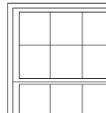
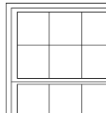
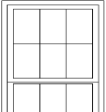
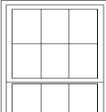
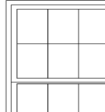
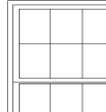
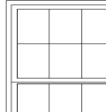
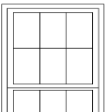
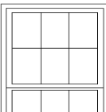
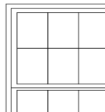
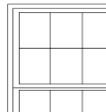
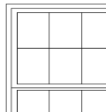
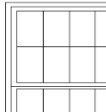
## Double Hung Triple Pane

Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2		
Frame Size	20	22	24	26	28	30	32		
Call Size	12	14	16	18	20	22	24		
42 1/2	42	16							
			DH1216	DH1416	DH1616	DH1816	DH2016	DH2216	DH2416
46 1/2	46	18							
			DH1218	DH1418	DH1618	DH1818	DH2018	DH2218	DH2418
50 1/2	50	20							
			DH1220	DH1420	DH1620	DH1820	DH2020	DH2220	DH2420
54 1/2	54	22							
			DH1222	DH1422	DH1622	DH1822	DH2022	DH2222	DH2422
58 1/2	58	24							
			DH1224	DH1424	DH1624	DH1824	DH2024	DH2224	DH2424
60 1/2	60	25							
			DH1225	DH1425	DH1625	DH1825	DH2025	DH2225	DH2425
62 1/2	62	26							
			DH1226	DH1426	DH1626	DH1826	DH2026	DH2226	DH2426

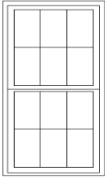
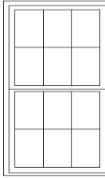
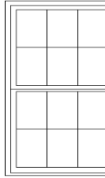

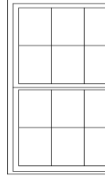

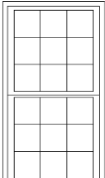
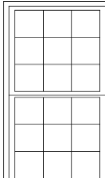

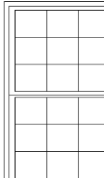
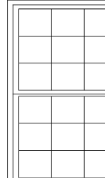
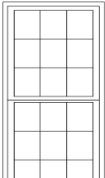
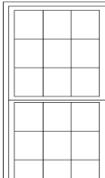

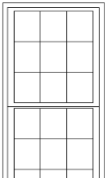
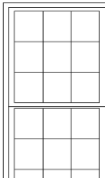
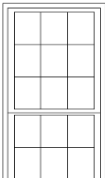
Double Hung Triple Pane

Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2		
Frame Size	20	22	24	26	28	30	32		
Call Size	12	14	16	18	20	22	24		
66 1/2	66	28							
			DH1228	DH1428	DH1628	DH1828	DH2028	DH2228	DH2428
70 1/2	70	30							
			DH1230	DH1430	DH1630	DH1830	DH2030	DH2230	DH2430
74 1/2	74	32							
			DH1232	DH1432	DH1632	DH1832	DH2032	DH2232	DH2432
78 1/2	78	34							
			DH1234	DH1434	DH1634	DH1834	DH2034	DH2234	DH2434
82 1/2	82	36							
			DH1236	DH1436	DH1636	DH1836	DH2036	DH2236	DH2436
86 1/2	86	38							
			DH1238	DH1438	DH1638	DH1838	DH2038	DH2238	DH2438

Double Hung Triple Pane

Rough Opening	34 1/2	36 1/2	38 1/2	39 1/2	40 1/2	42 1/2		
Frame Size	34	36	38	39	40	42		
Call Size	26	28	30	31	32	34		
42 1/2	42	16	 DH2616	 DH2816	 DH3016	 DH3116	 DH3216	
46 1/2	46	18	 DH2618	 DH2818	 DH3018	 DH3118	 DH3218	
50 1/2	50	20	 DH2620	 DH2820	 DH3020	 DH3120	 DH3220	
54 1/2	54	22	 DH2622	 DH2822	 DH3022	 DH3122	 DH3222	
58 1/2	58	24	 DH2624	 DH2824	 DH3024	 DH3124	 DH3224	
60 1/2	60	25	 DH2625	 DH2825	 DH3025	 DH3125	 DH3225	
62 1/2	62	26	 DH2626	 DH2826	 DH3026	 DH3126	 DH3226	 DH3426

Double Hung Triple Pane

Rough Opening	34 1/2	36 1/2	38 1/2	39 1/2	40 1/2	42 1/2		
Frame Size	34	36	38	39	40	42		
Call Size	26	28	30	31	32	34		
66 1/2	66	28	 DH2628	 DH2828	 DH3028	 DH3128	 DH3228	 DH3428
70 1/2	70	30	 DH2630	 DH2830	 DH3030	 DH3130	 DH3230	
74 1/2	74	32	 DH2632	 DH2832	 DH3032			
78 1/2	78	34	 DH2634	 DH2834				
82 1/2	82	36	 DH2636					

Rough Opening	Frame Size	Call Size	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2
			20	22	24	26	28	30	32
			12	14	16	18	20	22	24
42 1/2	42	16	DH1216	DH1416	DH1616	DH1816	DH2016	DH2216	DH2416
46 1/2	46	18	DH1218	DH1418	DH1618	DH1818	DH2018	DH2218	DH2418
50 1/2	50	20	DH1220	DH1420	DH1620	DH1820	DH2020	DH2220	DH2420
54 1/2	54	22	DH1222	DH1422	DH1622	DH1822	DH2022	DH2222	DH2422
58 1/2	58	24	DH1224	DH1424	DH1624	DH1824	DH2024	DH2224	DH2424
60 1/2	60	25	DH1225	DH1425	DH1625	DH1825	DH2025	DH2225	DH2425
62 1/2	62	26	DH1226	DH1426	DH1626	DH1826	DH2026	DH2226	DH2426
66 1/2	66	28	DH1228	DH1428	DH1628	DH1828	DH2028	DH2228	DH2428
70 1/2	70	30	DH1230	DH1430	DH1630	DH1830	DH2030	DH2230	DH2430
74 1/2	74	32	DH1232	DH1432	DH1632	DH1832	DH2032	DH2232	DH2432
78 1/2	78	34	DH1234	DH1434	DH1634	DH1834	DH2034	DH2234	DH2434
82 1/2	82	36	DH1236	DH1436	DH1636	DH1836	DH2036	DH2236	DH2436
86 1/2	86	38	DH1238	DH1438	DH1638	DH1838	DH2038	DH2238	DH2438

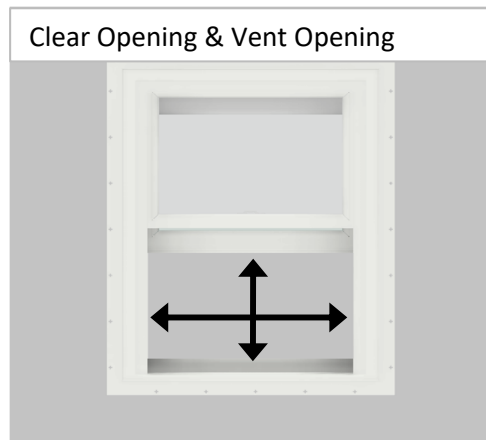
Rough Opening	Frame Size	Call Size	34 1/2	36 1/2	38 1/2	39 1/2	40 1/2	42 1/2
			34	36	38	39	40	42
			26	28	30	31	32	34
42 1/2	42	16	DH2616	DH2816	DH3016	DH3116	DH3216	-
46 1/2	46	18	DH2618	DH2818	DH3018	DH3118	DH3218	-
50 1/2	50	20	DH2620	DH2820	DH3020	DH3120	DH3220	-
54 1/2	54	22	DH2622	DH2822	DH3022	DH3122	DH3222	-
58 1/2	58	24	DH2624	DH2824	DH3024	DH3124	DH3224	-
60 1/2	60	25	DH2625	DH2825	DH3025	DH3125	DH3225	-
62 1/2	62	26	DH2626	DH2826	DH3026	DH3126	DH3226	DH3426
66 1/2	66	28	DH2628	DH2828	DH3028	DH3128	DH3228	DH3428
70 1/2	70	30	DH2630	DH2830	DH3030	DH3130	DH3230	-
74 1/2	74	32	DH2632	DH2832	DH3032	-	-	-
78 1/2	78	34	DH2634	DH2834	-	-	-	-
82 1/2	82	36	DH2636	-	-	-	-	-

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH1216	12	16	14 11/16	16	1.6	1.6
DH1218	12	18	14 11/16	18	1.8	1.8
DH1220	12	20	14 11/16	20	2.0	2.0
DH1222	12	22	14 11/16	22	2.2	2.2
DH1224	12	24	14 11/16	24	2.4	2.4
DH1225	12	25	14 11/16	25	2.5	2.5
DH1226	12	26	14 11/16	26	2.6	2.6
DH1228	12	28	14 11/16	28	2.8	2.8
DH1230	12	30	14 11/16	30	3.0	3.0
DH1232	12	32	14 11/16	32	3.2	3.2
DH1234	12	34	14 11/16	34	3.4	3.4
DH1236	12	36	14 11/16	36	3.6	3.6
DH1238	12	38	14 11/16	38	3.8	3.8
DH1416	14	16	16 11/16	16	1.8	1.8
DH1418	14	18	16 11/16	18	2.0	2.0
DH1420	14	20	16 11/16	20	2.3	2.3
DH1422	14	22	16 11/16	22	2.5	2.5
DH1424	14	24	16 11/16	24	2.7	2.7
DH1425	14	25	16 11/16	25	2.8	2.8
DH1426	14	26	16 11/16	26	3.0	3.0
DH1428	14	28	16 11/16	28	3.2	3.2
DH1430	14	30	16 11/16	30	3.4	3.4
DH1432	14	32	16 11/16	32	3.7	3.7
DH1434	14	34	16 11/16	34	3.9	3.9
DH1436	14	36	16 11/16	36	4.1	4.1
DH1438	14	38	16 11/16	38	4.4	4.4
DH1616	16	16	18 11/16	16	2.0	2.0
DH1618	16	18	18 11/16	18	2.3	2.3
DH1620	16	20	18 11/16	20	2.5	2.5
DH1622	16	22	18 11/16	22	2.8	2.8
DH1624	16	24	18 11/16	24	3.1	3.1
DH1625	16	25	18 11/16	25	3.2	3.2
DH1626	16	26	18 11/16	26	3.3	3.3
DH1628	16	28	18 11/16	28	3.6	3.6
DH1630	16	30	18 11/16	30	3.8	3.8
DH1632	16	32	18 11/16	32	4.1	4.1
DH1634	16	34	18 11/16	34	4.4	4.4
DH1636	16	36	18 11/16	36	4.6	4.6
DH1638	16	38	18 11/16	38	4.9	4.9

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH1816	18	16	20 11/16	16	2.2	2.2
DH1818	18	18	20 11/16	18	2.5	2.5
DH1820	18	20	20 11/16	20	2.8	2.8
DH1822	18	22	20 11/16	22	3.1	3.1
DH1824	18	24	20 11/16	24	3.4	3.4
DH1825	18	25	20 11/16	25	3.5	3.5
DH1826	18	26	20 11/16	26	3.7	3.7
DH1828	18	28	20 11/16	28	4.0	4.0
DH1830	18	30	20 11/16	30	4.3	4.3
DH1832	18	32	20 11/16	32	4.5	4.5
DH1834	18	34	20 11/16	34	4.8	4.8
DH1836	18	36	20 11/16	36	5.1	5.1
DH1838	18	38	20 11/16	38	5.4	5.4
DH2016	20	16	22 11/16	16	2.5	2.5
DH2018	20	18	22 11/16	18	2.8	2.8
DH2020	20	20	22 11/16	20	3.1	3.1
DH2022	20	22	22 11/16	22	3.4	3.4
DH2024	20	24	22 11/16	24	3.7	3.7
DH2025	20	25	22 11/16	25	3.9	3.9
DH2026	20	26	22 11/16	26	4.0	4.0
DH2028	20	28	22 11/16	28	4.4	4.4
DH2030	20	30	22 11/16	30	4.7	4.7
DH2032	20	32	22 11/16	32	5.0	5.0
DH2034	20	34	22 11/16	34	5.3	5.3
DH2036	20	36	22 11/16	36	5.6	5.6
DH2038	20	38	22 11/16	38	5.9	5.9
DH2216	22	16	24 11/16	16	2.7	2.7
DH2218	22	18	24 11/16	18	3.0	3.0
DH2220	22	20	24 11/16	20	3.4	3.4
DH2222	22	22	24 11/16	22	3.7	3.7
DH2224	22	24	24 11/16	24	4.1	4.1
DH2225	22	25	24 11/16	25	4.2	4.2
DH2226	22	26	24 11/16	26	4.4	4.4
DH2228	22	28	24 11/16	28	4.8	4.8
DH2230	22	30	24 11/16	30	5.1	5.1
DH2232	22	32	24 11/16	32	5.4	5.4
DH2234	22	34	24 11/16	34	5.8	5.8
DH2236	22	36	24 11/16	36	6.1	6.1
DH2238	22	38	24 11/16	38	6.5	6.5

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH2416	24	16	26 11/16	16	2.9	2.9
DH2418	24	18	26 11/16	18	3.3	3.3
DH2420	24	20	26 11/16	20	3.7	3.7
DH2422	24	22	26 11/16	22	4.0	4.0
DH2424	24	24	26 11/16	24	4.4	4.4
DH2425	24	25	26 11/16	25	4.6	4.6
DH2426	24	26	26 11/16	26	4.8	4.8
DH2428	24	28	26 11/16	28	5.1	5.1
DH2430	24	30	26 11/16	30	5.5	5.5
DH2432	24	32	26 11/16	32	5.9	5.9
DH2434	24	34	26 11/16	34	6.3	6.3
DH2436	24	36	26 11/16	36	6.6	6.6
DH2438	24	38	26 11/16	38	7.0	7.0
DH2616	26	16	28 11/16	16	3.1	3.1
DH2618	26	18	28 11/16	18	3.5	3.5
DH2620	26	20	28 11/16	20	3.9	3.9
DH2622	26	22	28 11/16	22	4.3	4.3
DH2624	26	24	28 11/16	24	4.7	4.7
DH2625	26	25	28 11/16	25	4.9	4.9
DH2626	26	26	28 11/16	26	5.1	5.1
DH2628	26	28	28 11/16	28	5.5	5.5
DH2630	26	30	28 11/16	30	5.9	5.9
DH2632	26	32	28 11/16	32	6.3	6.3
DH2634	26	34	28 11/16	34	6.7	6.7
DH2636	26	36	28 11/16	36	7.1	7.1
DH2816	28	16	30 11/16	16	3.4	3.4
DH2818	28	18	30 11/16	18	3.8	3.8
DH2820	28	20	30 11/16	20	4.2	4.2
DH2822	28	22	30 11/16	22	4.6	4.6
DH2824	28	24	30 11/16	24	5.1	5.1
DH2825	28	25	30 11/16	25	5.3	5.3
DH2826	28	26	30 11/16	26	5.5	5.5
DH2828	28	28	30 11/16	28	5.9	5.9
DH2830	28	30	30 11/16	30	6.3	6.3
DH2832	28	32	30 11/16	32	6.8	6.8
DH2834	28	34	30 11/16	34	7.2	7.2

Call Size	Nominal Glass Width	Nominal Glass Height	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )
DH3016	30	16	32 11/16	16	3.6	3.6
DH3018	30	18	32 11/16	18	4.0	4.0
DH3020	30	20	32 11/16	20	4.5	4.5
DH3022	30	22	32 11/16	22	4.9	4.9
DH3024	30	24	32 11/16	24	5.4	5.4
DH3025	30	25	32 11/16	25	5.6	5.6
DH3026	30	26	32 11/16	26	5.9	5.9
DH3028	30	28	32 11/16	28	6.3	6.3
DH3030	30	30	32 11/16	30	6.8	6.8
DH3032	30	32	32 11/16	32	7.2	7.2
DH3116	31	16	33 11/16	16	3.7	3.7
DH3118	31	18	33 11/16	18	4.2	4.2
DH3120	31	20	33 11/16	20	4.6	4.6
DH3122	31	22	33 11/16	22	5.1	5.1
DH3124	31	24	33 11/16	24	5.6	5.6
DH3125	31	25	33 11/16	25	5.8	5.8
DH3126	31	26	33 11/16	26	6.0	6.0
DH3128	31	28	33 11/16	28	6.5	6.5
DH3130	31	30	33 11/16	30	7.0	7.0
DH3216	32	16	34 11/16	16	3.8	3.8
DH3218	32	18	34 11/16	18	4.3	4.3
DH3220	32	20	34 11/16	20	4.8	4.8
DH3222	32	22	34 11/16	22	5.2	5.2
DH3224	32	24	34 11/16	24	5.7	5.7
DH3225	32	25	34 11/16	25	6.0	6.0
DH3226	32	26	34 11/16	26	6.2	6.2
DH3228	32	28	34 11/16	28	6.7	6.7
DH3230	32	30	34 11/16	30	7.2	7.2
DH3426	34	26	36 11/16	26	6.6	6.6
DH3428	34	28	36 11/16	28	7.1	7.1

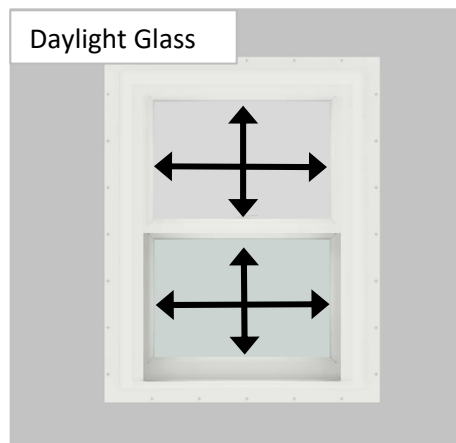


Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH1216	12 1/2	16 11/16	2.8	5.8
DH1218	12 1/2	18 11/16	3.2	6.3
DH1220	12 1/2	20 11/16	3.5	6.9
DH1222	12 1/2	22 11/16	3.9	7.5
DH1224	12 1/2	24 11/16	4.2	8.0
DH1225	12 1/2	25 11/16	4.4	8.3
DH1226	12 1/2	26 11/16	4.6	8.6
DH1228	12 1/2	28 11/16	4.9	9.1
DH1230	12 1/2	30 11/16	5.3	9.7
DH1232	12 1/2	32 11/16	5.6	10.2
DH1234	12 1/2	34 11/16	6.0	10.8
DH1236	12 1/2	36 11/16	6.3	11.3
DH1238	12 1/2	38 11/16	6.7	11.9
DH1416	14 1/2	16 11/16	3.3	6.4
DH1418	14 1/2	18 11/16	3.7	7.0
DH1420	14 1/2	20 11/16	4.1	7.6
DH1422	14 1/2	22 11/16	4.5	8.2
DH1424	14 1/2	24 11/16	4.9	8.8
DH1425	14 1/2	25 11/16	5.1	9.1
DH1426	14 1/2	26 11/16	5.3	9.4
DH1428	14 1/2	28 11/16	5.7	10.0
DH1430	14 1/2	30 11/16	6.1	10.6
DH1432	14 1/2	32 11/16	6.5	11.3
DH1434	14 1/2	34 11/16	6.9	11.9
DH1436	14 1/2	36 11/16	7.3	12.5
DH1438	14 1/2	38 11/16	7.7	13.1
DH1616	16 1/2	16 11/16	3.8	7.0
DH1618	16 1/2	18 11/16	4.2	7.6
DH1620	16 1/2	20 11/16	4.7	8.3
DH1622	16 1/2	22 11/16	5.1	9.0
DH1624	16 1/2	24 11/16	5.6	9.6
DH1625	16 1/2	25 11/16	5.8	10.0
DH1626	16 1/2	26 11/16	6.1	10.3
DH1628	16 1/2	28 11/16	6.5	11.0
DH1630	16 1/2	30 11/16	7.0	11.6
DH1632	16 1/2	32 11/16	7.4	12.3
DH1634	16 1/2	34 11/16	7.9	13.0
DH1636	16 1/2	36 11/16	8.4	13.6
DH1638	16 1/2	38 11/16	8.8	14.3

Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH1816	18 1/2	16 11/16	4.2	7.5
DH1818	18 1/2	18 11/16	4.7	8.3
DH1820	18 1/2	20 11/16	5.3	9.0
DH1822	18 1/2	22 11/16	5.8	9.7
DH1824	18 1/2	24 11/16	6.3	10.4
DH1825	18 1/2	25 11/16	6.5	10.8
DH1826	18 1/2	26 11/16	6.8	11.1
DH1828	18 1/2	28 11/16	7.3	11.9
DH1830	18 1/2	30 11/16	7.8	12.6
DH1832	18 1/2	32 11/16	8.3	13.3
DH1834	18 1/2	34 11/16	8.9	14.0
DH1836	18 1/2	36 11/16	9.4	14.8
DH1838	18 1/2	38 11/16	9.9	15.5
DH2016	20 1/2	16 11/16	4.7	8.1
DH2018	20 1/2	18 11/16	5.3	8.9
DH2020	20 1/2	20 11/16	5.8	9.7
DH2022	20 1/2	22 11/16	6.4	10.5
DH2024	20 1/2	24 11/16	7.0	11.2
DH2025	20 1/2	25 11/16	7.3	11.6
DH2026	20 1/2	26 11/16	7.5	12.0
DH2028	20 1/2	28 11/16	8.1	12.8
DH2030	20 1/2	30 11/16	8.7	13.6
DH2032	20 1/2	32 11/16	9.3	14.3
DH2034	20 1/2	34 11/16	9.8	15.1
DH2036	20 1/2	36 11/16	10.4	15.9
DH2038	20 1/2	38 11/16	11.0	16.7
DH2216	22 1/2	16 11/16	5.2	8.7
DH2218	22 1/2	18 11/16	5.8	9.5
DH2220	22 1/2	20 11/16	6.4	10.4
DH2222	22 1/2	22 11/16	7.0	11.2
DH2224	22 1/2	24 11/16	7.7	12.0
DH2225	22 1/2	25 11/16	8.0	12.5
DH2226	22 1/2	26 11/16	8.3	12.9
DH2228	22 1/2	28 11/16	8.9	13.7
DH2230	22 1/2	30 11/16	9.5	14.5
DH2232	22 1/2	32 11/16	10.2	15.4
DH2234	22 1/2	34 11/16	10.8	16.2
DH2236	22 1/2	36 11/16	11.4	17.0
DH2238	22 1/2	38 11/16	12.0	17.9

Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH2416	24 1/2	16 11/16	5.6	9.3
DH2418	24 1/2	18 11/16	6.3	10.2
DH2420	24 1/2	20 11/16	7.0	11.1
DH2422	24 1/2	22 11/16	7.7	12.0
DH2424	24 1/2	24 11/16	8.3	12.8
DH2425	24 1/2	25 11/16	8.7	13.3
DH2426	24 1/2	26 11/16	9.0	13.7
DH2428	24 1/2	28 11/16	9.7	14.6
DH2430	24 1/2	30 11/16	10.4	15.5
DH2432	24 1/2	32 11/16	11.1	16.4
DH2434	24 1/2	34 11/16	11.7	17.3
DH2436	24 1/2	36 11/16	12.4	18.2
DH2438	24 1/2	38 11/16	13.1	19.1
DH2616	26 1/2	16 11/16	6.1	9.9
DH2618	26 1/2	18 11/16	6.8	10.8
DH2620	26 1/2	20 11/16	7.6	11.8
DH2622	26 1/2	22 11/16	8.3	12.7
DH2624	26 1/2	24 11/16	9.0	13.6
DH2625	26 1/2	25 11/16	9.4	14.1
DH2626	26 1/2	26 11/16	9.8	14.6
DH2628	26 1/2	28 11/16	10.5	15.5
DH2630	26 1/2	30 11/16	11.2	16.5
DH2632	26 1/2	32 11/16	12.0	17.4
DH2634	26 1/2	34 11/16	12.7	18.4
DH2636	26 1/2	36 11/16	13.4	19.3
DH2816	28 1/2	16 11/16	6.6	10.5
DH2818	28 1/2	18 11/16	7.3	11.5
DH2820	28 1/2	20 11/16	8.1	12.5
DH2822	28 1/2	22 11/16	8.9	13.5
DH2824	28 1/2	24 11/16	9.7	14.5
DH2825	28 1/2	25 11/16	10.1	15.0
DH2826	28 1/2	26 11/16	10.5	15.5
DH2828	28 1/2	28 11/16	11.3	16.5
DH2830	28 1/2	30 11/16	12.1	17.5
DH2832	28 1/2	32 11/16	12.9	18.5
DH2834	28 1/2	34 11/16	13.7	19.5

Call Size	Daylight Glass Width	Daylight Glass Height	Total Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DH3016	30 1/2	16 11/16	7.0	11.0
DH3018	30 1/2	18 11/16	7.9	12.1
DH3020	30 1/2	20 11/16	8.7	13.1
DH3022	30 1/2	22 11/16	9.6	14.2
DH3024	30 1/2	24 11/16	10.4	15.3
DH3025	30 1/2	25 11/16	10.8	15.8
DH3026	30 1/2	26 11/16	11.2	16.3
DH3028	30 1/2	28 11/16	12.1	17.4
DH3030	30 1/2	30 11/16	12.9	18.4
DH3032	30 1/2	32 11/16	13.8	19.5
DH3116	31 1/2	16 11/16	7.2	11.3
DH3118	31 1/2	18 11/16	8.1	12.4
DH3120	31 1/2	20 11/16	9.0	13.5
DH3122	31 1/2	22 11/16	9.9	14.6
DH3124	31 1/2	24 11/16	10.7	15.7
DH3125	31 1/2	25 11/16	11.2	16.2
DH3126	31 1/2	26 11/16	11.6	16.7
DH3128	31 1/2	28 11/16	12.5	17.8
DH3130	31 1/2	30 11/16	13.4	18.9
DH3216	32 1/2	16 11/16	7.5	11.6
DH3218	32 1/2	18 11/16	8.4	12.7
DH3220	32 1/2	20 11/16	9.3	13.8
DH3222	32 1/2	22 11/16	10.2	15.0
DH3224	32 1/2	24 11/16	11.1	16.1
DH3225	32 1/2	25 11/16	11.5	16.6
DH3226	32 1/2	26 11/16	12.0	17.2
DH3228	32 1/2	28 11/16	12.9	18.3
DH3230	32 1/2	30 11/16	13.8	19.4
DH3426	34 1/2	26 11/16	12.7	18.0
DH3428	34 1/2	28 11/16	13.7	19.2



### Double Hung Transom Window Thermal Performance

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E (Cardinal 270)	0.28	0.28	0.51	57	Yes	-	-	-	-
Dual Pane Clear	0.41	0.58	0.60	44	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E Tempered (Cardinal 270)	0.28	0.28	0.51	56	Yes	-	-	-	-
Dual Pane Clear Tempered	0.41	0.58	0.60	44	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.25	0.46	0.56	61	Yes	N	-	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.25	0.46	0.56	61	Yes	N	-	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.20	0.25	0.47	70	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.18	0.23	0.40	75	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.21	0.25	0.47	66	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.17	0.23	0.40	72	Yes	N	NC	SC	S
Triple Pane E7 (Cardinal 270)	0.20	0.25	0.47	70	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 270)	0.21	0.25	0.47	66	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 180)	0.22	0.39	0.47	65	Yes	N	NC	-	-

<sup>1</sup> = Meets 2021 IECC and older in most northern zones

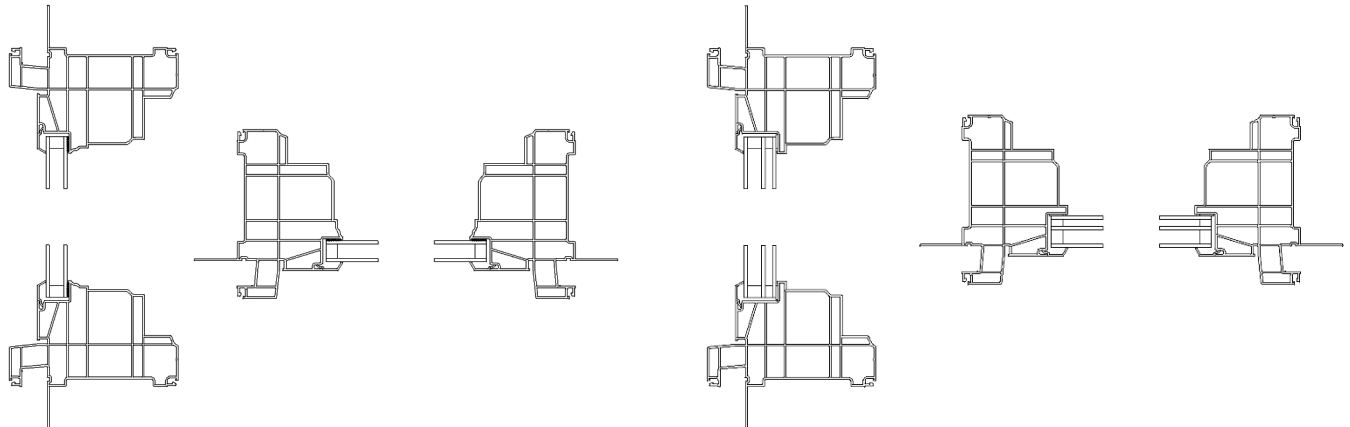
Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.

### Double Hung Transom Structural Performance (Dual and Triple Pane Glazing)

Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Double Hung Transom (Dual Pane)	60 x 60	Single	PG65	CW
Double Hung Transom (Dual Pane)	72 x 72	Single	PG50	LC
Double Hung Transom (Dual Pane)	36 x 82	Single	PG75	LC
Double Hung Transom (Triple Pane)	60 x 60	Single	PG70	LC
Double Hung Transom (Triple Pane)	72 x 72	Single	PG60	LC
Double Hung Transom (Triple Pane)	36 x 82	Single	PG80	LC









































































































































Note: Maximum height for the Double Hung Transom is 44"

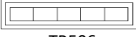
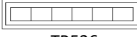
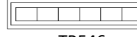
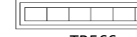



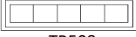




















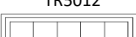
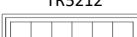
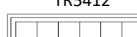
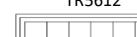



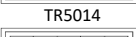
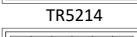

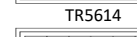



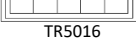













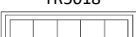
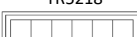
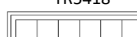




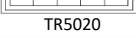
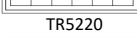
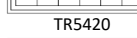
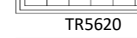
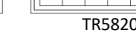






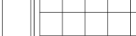


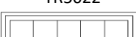
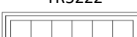
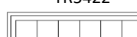
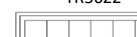



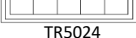

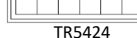











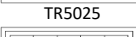










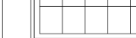









#### Detail Drawings:



For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2	38 1/2	39 1/2	40 1/2		
Frame Size	20	22	24	26	28	30	32	34	36	38	39	40		
Call Size	12	14	16	18	20	22	24	26	28	30	31	32		
14 1/2	14	6												
			TR126	TR146	TR166	TR186	TR206	TR226	TR246	TR266	TR286	TR306	TR316	TR326
16 1/2	16	8												
			TR128	TR148	TR168	TR188	TR208	TR228	TR248	TR268	TR288	TR308	TR318	TR328
18 1/2	18	10												
			TR1210	TR1410	TR1610	TR1810	TR2010	TR2210	TR2410	TR2610	TR2810	TR3010	TR3110	TR3210
20 1/2	20	12												
			TR1212	TR1412	TR1612	TR1812	TR2012	TR2212	TR2412	TR2612	TR2812	TR3012	TR3112	TR3212
22 1/2	22	14												
			TR1214	TR1414	TR1614	TR1814	TR2014	TR2214	TR2414	TR2614	TR2814	TR3014	TR3114	TR3214
24 1/2	24	16												
			TR1216	TR1416	TR1616	TR1816	TR2016	TR2216	TR2416	TR2616	TR2816	TR3016	TR3116	TR3216
26 1/2	26	18												
			TR1218	TR1418	TR1618	TR1818	TR2018	TR2218	TR2418	TR2618	TR2818	TR3018	TR3118	TR3218
28 1/2	28	20												
			TR1220	TR1420	TR1620	TR1820	TR2020	TR2220	TR2420	TR2620	TR2820	TR3020	TR3120	TR3220
30 1/2	30	22												
			TR1222	TR1422	TR1622	TR1822	TR2022	TR2222	TR2422	TR2622	TR2822	TR3022	TR3122	TR3222
32 1/2	32	24												
			TR1224	TR1424	TR1624	TR1824	TR2024	TR2224	TR2424	TR2624	TR2824	TR3024	TR3124	TR3224
33 1/2	33	25												
			TR1225	TR1425	TR1625	TR1825	TR2025	TR2225	TR2425	TR2625	TR2825	TR3025	TR3125	TR3225
34 1/2	34	26												
			TR1226	TR1426	TR1626	TR1826	TR2026	TR2226	TR2426	TR2626	TR2826	TR3026	TR3126	TR3226
36 1/2	36	28												
			TR1228	TR1428	TR1628	TR1828	TR2028	TR2228	TR2428	TR2628	TR2828	TR3028	TR3128	TR3228
38 1/2	38	30												
			TR1230	TR1430	TR1630	TR1830	TR2030	TR2230	TR2430	TR2630	TR2830	TR3030	TR3130	TR3230
40 1/2	40	32												
			TR1232	TR1432	TR1632	TR1832	TR2032	TR2232	TR2432	TR2632	TR2832	TR3032	TR3132	TR3232
42 1/2	42	34												
			TR1234	TR1434	TR1634	TR1834	TR2034	TR2234	TR2434	TR2634	TR2834	TR3034	TR3134	TR3234
44 1/2	44	36												
			TR1236	TR1436	TR1636	TR1836	TR2036	TR2236	TR2436	TR2636	TR2836	TR3036	TR3136	TR3236

Rough Opening	42 1/2	44 1/2	46 1/2	48 1/2	50 1/2	52 1/2	54 1/2	56 1/2		
Frame Size	42	44	46	48	50	52	54	56		
Call Size	34	36	38	40	42	44	46	48		
14 1/2	14	6								
			TR346	TR366	TR386	TR406	TR426	TR446	TR466	TR486
16 1/2	16	8								
			TR348	TR368	TR388	TR408	TR428	TR448	TR468	TR488
18 1/2	18	10								
			TR3410	TR3610	TR3810	TR4010	TR4210	TR4410	TR4610	TR4810
20 1/2	20	12								
			TR3412	TR3612	TR3812	TR4012	TR4212	TR4412	TR4612	TR4812
22 1/2	22	14								
			TR3414	TR3614	TR3814	TR4014	TR4214	TR4414	TR4614	TR4814
24 1/2	24	16								
			TR3416	TR3616	TR3816	TR4016	TR4216	TR4416	TR4616	TR4816
26 1/2	26	18								
			TR3418	TR3618	TR3818	TR4018	TR4218	TR4418	TR4618	TR4818
28 1/2	28	20								
			TR3420	TR3620	TR3820	TR4020	TR4220	TR4420	TR4620	TR4820
30 1/2	30	22								
			TR3422	TR3622	TR3822	TR4022	TR4222	TR4422	TR4622	TR4822
32 1/2	32	24								
			TR3424	TR3624	TR3824	TR4024	TR4224	TR4424	TR4624	TR4824
33 1/2	33	25								
			TR3425	TR3625	TR3825	TR4025	TR4225	TR4425	TR4625	TR4825
34 1/2	34	26								
			TR3426	TR3626	TR3826	TR4026	TR4226	TR4426	TR4626	TR4826
36 1/2	36	28								
			TR3428	TR3628	TR3828	TR4028	TR4228	TR4428	TR4628	TR4828
38 1/2	38	30								
			TR3430	TR3630	TR3830	TR4030	TR4230	TR4430	TR4630	TR4830
40 1/2	40	32								
			TR3432	TR3632	TR3832	TR4032	TR4232	TR4432	TR4632	TR4832
42 1/2	42	34								
			TR3434	TR3634	TR3834	TR4034	TR4234	TR4434	TR4634	TR4834
44 1/2	44	36								
			TR3436	TR3636	TR3836	TR4036	TR4236	TR4436	TR4636	TR4836

Rough Opening	58 1/2	60 1/2	62 1/2	64 1/2	66 1/2	68 1/2	72 1/2		
Frame Size	58	60	62	64	66	68	72		
Call Size	50	52	54	56	58	60	64		
14 1/2	14	6							
			TR506	TR526	TR546	TR566	TR586	TR606	TR646
16 1/2	16	8							
			TR508	TR528	TR548	TR568	TR588	TR608	TR648
18 1/2	18	10							
			TR5010	TR5210	TR5410	TR5610	TR5810	TR6010	TR6410
20 1/2	20	12							
			TR5012	TR5212	TR5412	TR5612	TR5812	TR6012	TR6412
22 1/2	22	14							
			TR5014	TR5214	TR5414	TR5614	TR5814	TR6014	TR6414
24 1/2	24	16							
			TR5016	TR5216	TR5416	TR5616	TR5816	TR6016	TR6416
26 1/2	26	18							
			TR5018	TR5218	TR5418	TR5618	TR5818	TR6018	TR6418
28 1/2	28	20							
			TR5020	TR5220	TR5420	TR5620	TR5820	TR6020	TR6420
30 1/2	30	22							
			TR5022	TR5222	TR5422	TR5622	TR5822	TR6022	TR6422
32 1/2	32	24							
			TR5024	TR5224	TR5424	TR5624	TR5824	TR6024	TR6424
33 1/2	33	25							
			TR5025	TR5225	TR5425	TR5625	TR5825	TR6025	TR6425
34 1/2	34	26							
			TR5026	TR5226	TR5426	TR5626	TR5826	TR6026	TR6426
36 1/2	36	28							
			TR5028	TR5228	TR5428	TR5628	TR5828	TR6028	TR6428
38 1/2	38	30							
			TR5030	TR5230	TR5430	TR5630	TR5830	TR6030	TR6430
40 1/2	40	32							
			TR5032	TR5232	TR5432	TR5632	TR5832	TR6032	TR6432
42 1/2	42	34							
			TR5034	TR5234	TR5434	TR5634	TR5834	TR6034	TR6434
44 1/2	44	36							
			TR5036	TR5236	TR5436	TR5636	TR5836	TR6036	TR6436

Rough Opening			20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2
	Frame Size		20	22	24	26	28	30	32	34
		Call Size	12	14	16	18	20	22	24	26
14 1/2	14	6	TR126	TR146	TR166	TR186	TR206	TR226	TR246	TR266
16 1/2	16	8	TR128	TR148	TR168	TR188	TR208	TR228	TR248	TR268
18 1/2	18	10	TR1210	TR1410	TR1610	TR1810	TR2010	TR2210	TR2410	TR2610
20 1/2	20	12	TR1212	TR1412	TR1612	TR1812	TR2012	TR2212	TR2412	TR2612
22 1/2	22	14	TR1214	TR1414	TR1614	TR1814	TR2014	TR2214	TR2414	TR2614
24 1/2	24	16	TR1216	TR1416	TR1616	TR1816	TR2016	TR2216	TR2416	TR2616
26 1/2	26	18	TR1218	TR1418	TR1618	TR1818	TR2018	TR2218	TR2418	TR2618
28 1/2	28	20	TR1220	TR1420	TR1620	TR1820	TR2020	TR2220	TR2420	TR2620
30 1/2	30	22	TR1222	TR1422	TR1622	TR1822	TR2022	TR2222	TR2422	TR2622
32 1/2	32	24	TR1224	TR1424	TR1624	TR1824	TR2024	TR2224	TR2424	TR2624
33 1/2	33	25	TR1225	TR1425	TR1625	TR1825	TR2025	TR2225	TR2425	TR2625
34 1/2	34	26	TR1226	TR1426	TR1626	TR1826	TR2026	TR2226	TR2426	TR2626
36 1/2	36	28	TR1228	TR1428	TR1628	TR1828	TR2028	TR2228	TR2428	TR2628
38 1/2	38	30	TR1230	TR1430	TR1630	TR1830	TR2030	TR2230	TR2430	TR2630
40 1/2	40	32	TR1232	TR1432	TR1632	TR1832	TR2032	TR2232	TR2432	TR2632
42 1/2	42	34	TR1234	TR1434	TR1634	TR1834	TR2034	TR2234	TR2434	TR2634
44 1/2	44	36	TR1236	TR1436	TR1636	TR1836	TR2036	TR2236	TR2436	TR2636

Rough Opening			36 1/2	38 1/2	39 1/2	40 1/2	42 1/2	44 1/2	46 1/2	48 1/2
	Frame Size		36	38	39	40	42	44	46	48
		Call Size	28	30	31	32	34	36	38	40
14 1/2	14	6	TR286	TR306	TR316	TR326	TR346	TR366	TR386	TR406
16 1/2	16	8	TR288	TR308	TR318	TR328	TR348	TR368	TR388	TR408
18 1/2	18	10	TR2810	TR3010	TR3110	TR3210	TR3410	TR3610	TR3810	TR4010
20 1/2	20	12	TR2812	TR3012	TR3112	TR3212	TR3412	TR3612	TR3812	TR4012
22 1/2	22	14	TR2814	TR3014	TR3114	TR3214	TR3414	TR3614	TR3814	TR4014
24 1/2	24	16	TR2816	TR3016	TR3116	TR3216	TR3416	TR3616	TR3816	TR4016
26 1/2	26	18	TR2818	TR3018	TR3118	TR3218	TR3418	TR3618	TR3818	TR4018
28 1/2	28	20	TR2820	TR3020	TR3120	TR3220	TR3420	TR3620	TR3820	TR4020
30 1/2	30	22	TR2822	TR3022	TR3122	TR3222	TR3422	TR3622	TR3822	TR4022
32 1/2	32	24	TR2824	TR3024	TR3124	TR3224	TR3424	TR3624	TR3824	TR4024
33 1/2	33	25	TR2825	TR3025	TR3125	TR3225	TR3425	TR3625	TR3825	TR4025
34 1/2	34	26	TR2826	TR3026	TR3126	TR3226	TR3426	TR3626	TR3826	TR4026
36 1/2	36	28	TR2828	TR3028	TR3128	TR3228	TR3428	TR3628	TR3828	TR4028
38 1/2	38	30	TR2830	TR3030	TR3130	TR3230	TR3430	TR3630	TR3830	TR4030
40 1/2	40	32	TR2832	TR3032	TR3132	TR3232	TR3432	TR3632	TR3832	TR4032
42 1/2	42	34	TR2834	TR3034	TR3134	TR3234	TR3434	TR3634	TR3834	TR4034
44 1/2	44	36	TR2836	TR3036	TR3136	TR3236	TR3436	TR3636	TR3836	TR4036

Rough Opening			50 1/2	52 1/2	54 1/2	56 1/2	58 1/2	60 1/2	62 1/2	64 1/2
	Frame Size		50	52	54	56	58	60	62	64
		Call Size	42	44	46	48	50	52	54	56
14 1/2	14	6	TR426	TR446	TR466	TR486	TR506	TR526	TR546	TR566
16 1/2	16	8	TR428	TR448	TR468	TR488	TR508	TR528	TR548	TR568
18 1/2	18	10	TR4210	TR4410	TR4610	TR4810	TR5010	TR5210	TR5410	TR5610
20 1/2	20	12	TR4212	TR4412	TR4612	TR4812	TR5012	TR5212	TR5412	TR5612
22 1/2	22	14	TR4214	TR4414	TR4614	TR4814	TR5014	TR5214	TR5414	TR5614
24 1/2	24	16	TR4216	TR4416	TR4616	TR4816	TR5016	TR5216	TR5416	TR5616
26 1/2	26	18	TR4218	TR4418	TR4618	TR4818	TR5018	TR5218	TR5418	TR5618
28 1/2	28	20	TR4220	TR4420	TR4620	TR4820	TR5020	TR5220	TR5420	TR5620
30 1/2	30	22	TR4222	TR4422	TR4622	TR4822	TR5022	TR5222	TR5422	TR5622
32 1/2	32	24	TR4224	TR4424	TR4624	TR4824	TR5024	TR5224	TR5424	TR5624
33 1/2	33	25	TR4225	TR4425	TR4625	TR4825	TR5025	TR5225	TR5425	TR5625
34 1/2	34	26	TR4226	TR4426	TR4626	TR4826	TR5026	TR5226	TR5426	TR5626
36 1/2	36	28	TR4228	TR4428	TR4628	TR4828	TR5028	TR5228	TR5428	TR5628
38 1/2	38	30	TR4230	TR4430	TR4630	TR4830	TR5030	TR5230	TR5430	TR5630
40 1/2	40	32	TR4232	TR4432	TR4632	TR4832	TR5032	TR5232	TR5432	TR5632
42 1/2	42	34	TR4234	TR4434	TR4634	TR4834	TR5034	TR5234	TR5434	TR5634
44 1/2	44	36	TR4236	TR4436	TR4636	TR4836	TR5036	TR5236	TR5436	TR5636

Rough Opening			66 1/2	68 1/2	72 1/2
	Frame Size		66	68	72
		Call Size	58	60	64
14 1/2	14	6	TR586	TR606	TR646
16 1/2	16	8	TR588	TR608	TR648
18 1/2	18	10	TR5810	TR6010	TR6410
20 1/2	20	12	TR5812	TR6012	TR6412
22 1/2	22	14	TR5814	TR6014	TR6414
24 1/2	24	16	TR5816	TR6016	TR6416
26 1/2	26	18	TR5818	TR6018	TR6418
28 1/2	28	20	TR5820	TR6020	TR6420
30 1/2	30	22	TR5822	TR6022	TR6422
32 1/2	32	24	TR5824	TR6024	TR6424
33 1/2	33	25	TR5825	TR6025	TR6425
34 1/2	34	26	TR5826	TR6026	TR6426
36 1/2	36	28	TR5828	TR6028	TR6428
38 1/2	38	30	TR5830	TR6030	TR6430
40 1/2	40	32	TR5832	TR6032	TR6432
42 1/2	42	34	TR5834	TR6034	TR6434
44 1/2	44	36	TR5836	TR6036	TR6436

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR126	12	6	12 1/2	6 1/2	0.5	1.9
TR128	12	8	12 1/2	8 1/2	0.7	2.2
TR1210	12	10	12 1/2	10 1/2	0.9	2.5
TR1212	12	12	12 1/2	12 1/2	1.0	2.7
TR1214	12	14	12 1/2	14 1/2	1.2	3.0
TR1216	12	16	12 1/2	16 1/2	1.4	3.3
TR1218	12	18	12 1/2	18 1/2	1.6	3.6
TR1220	12	20	12 1/2	20 1/2	1.7	3.8
TR1222	12	22	12 1/2	22 1/2	1.9	4.1
TR1224	12	24	12 1/2	24 1/2	2.1	4.4
TR1225	12	25	12 1/2	25 1/2	2.2	4.5
TR1226	12	26	12 1/2	26 1/2	2.3	4.7
TR1228	12	28	12 1/2	28 1/2	2.4	5.0
TR1230	12	30	12 1/2	30 1/2	2.6	5.2
TR1232	12	32	12 1/2	32 1/2	2.8	5.5
TR1234	12	34	12 1/2	34 1/2	2.9	5.8
TR1236	12	36	12 1/2	36 1/2	3.1	6.1
TR146	14	6	14 1/2	6 1/2	0.6	2.1
TR148	14	8	14 1/2	8 1/2	0.8	2.4
TR1410	14	10	14 1/2	10 1/2	1.0	2.7
TR1412	14	12	14 1/2	12 1/2	1.2	3.0
TR1414	14	14	14 1/2	14 1/2	1.4	3.3
TR1416	14	16	14 1/2	16 1/2	1.6	3.6
TR1418	14	18	14 1/2	18 1/2	1.8	3.9
TR1420	14	20	14 1/2	20 1/2	2.0	4.2
TR1422	14	22	14 1/2	22 1/2	2.2	4.5
TR1424	14	24	14 1/2	24 1/2	2.4	4.8
TR1425	14	25	14 1/2	25 1/2	2.5	5.0
TR1426	14	26	14 1/2	26 1/2	2.6	5.1
TR1428	14	28	14 1/2	28 1/2	2.8	5.5
TR1430	14	30	14 1/2	30 1/2	3.0	5.8
TR1432	14	32	14 1/2	32 1/2	3.2	6.1
TR1434	14	34	14 1/2	34 1/2	3.4	6.4
TR1436	14	36	14 1/2	36 1/2	3.6	6.7
TR166	16	6	16 1/2	6 1/2	0.7	2.3
TR168	16	8	16 1/2	8 1/2	0.9	2.6
TR1610	16	10	16 1/2	10 1/2	1.2	3.0
TR1612	16	12	16 1/2	12 1/2	1.4	3.3
TR1614	16	14	16 1/2	14 1/2	1.6	3.6
TR1616	16	16	16 1/2	16 1/2	1.8	4.0
TR1618	16	18	16 1/2	18 1/2	2.1	4.3
TR1620	16	20	16 1/2	20 1/2	2.3	4.6
TR1622	16	22	16 1/2	22 1/2	2.5	5.0
TR1624	16	24	16 1/2	24 1/2	2.8	5.3
TR1625	16	25	16 1/2	25 1/2	2.9	5.5
TR1626	16	26	16 1/2	26 1/2	3.0	5.6
TR1628	16	28	16 1/2	28 1/2	3.2	6.0
TR1630	16	30	16 1/2	30 1/2	3.4	6.3
TR1632	16	32	16 1/2	32 1/2	3.7	6.6
TR1634	16	34	16 1/2	34 1/2	3.9	7.0
TR1636	16	36	16 1/2	36 1/2	4.1	7.3

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR186	18	6	18 1/2	6 1/2	0.8	2.5
TR188	18	8	18 1/2	8 1/2	1.0	2.8
TR1810	18	10	18 1/2	10 1/2	1.3	3.2
TR1812	18	12	18 1/2	12 1/2	1.6	3.6
TR1814	18	14	18 1/2	14 1/2	1.8	3.9
TR1816	18	16	18 1/2	16 1/2	2.1	4.3
TR1818	18	18	18 1/2	18 1/2	2.3	4.6
TR1820	18	20	18 1/2	20 1/2	2.6	5.0
TR1822	18	22	18 1/2	22 1/2	2.8	5.4
TR1824	18	24	18 1/2	24 1/2	3.1	5.7
TR1825	18	25	18 1/2	25 1/2	3.2	5.9
TR1826	18	26	18 1/2	26 1/2	3.4	6.1
TR1828	18	28	18 1/2	28 1/2	3.6	6.5
TR1830	18	30	18 1/2	30 1/2	3.9	6.8
TR1832	18	32	18 1/2	32 1/2	4.1	7.2
TR1834	18	34	18 1/2	34 1/2	4.4	7.5
TR1836	18	36	18 1/2	36 1/2	4.6	7.9
TR206	20	6	20 1/2	6 1/2	0.9	2.7
TR208	20	8	20 1/2	8 1/2	1.2	3.1
TR2010	20	10	20 1/2	10 1/2	1.4	3.5
TR2012	20	12	20 1/2	12 1/2	1.7	3.8
TR2014	20	14	20 1/2	14 1/2	2.0	4.2
TR2016	20	16	20 1/2	16 1/2	2.3	4.6
TR2018	20	18	20 1/2	18 1/2	2.6	5.0
TR2020	20	20	20 1/2	20 1/2	2.9	5.4
TR2022	20	22	20 1/2	22 1/2	3.2	5.8
TR2024	20	24	20 1/2	24 1/2	3.4	6.2
TR2025	20	25	20 1/2	25 1/2	3.6	6.4
TR2026	20	26	20 1/2	26 1/2	3.7	6.6
TR2028	20	28	20 1/2	28 1/2	4.0	7.0
TR2030	20	30	20 1/2	30 1/2	4.3	7.3
TR2032	20	32	20 1/2	32 1/2	4.6	7.7
TR2034	20	34	20 1/2	34 1/2	4.9	8.1
TR2036	20	36	20 1/2	36 1/2	5.1	8.5
TR226	22	6	22 1/2	6 1/2	1.0	2.9
TR228	22	8	22 1/2	8 1/2	1.3	3.3
TR2210	22	10	22 1/2	10 1/2	1.6	3.7
TR2212	22	12	22 1/2	12 1/2	1.9	4.1
TR2214	22	14	22 1/2	14 1/2	2.2	4.5
TR2216	22	16	22 1/2	16 1/2	2.5	5.0
TR2218	22	18	22 1/2	18 1/2	2.8	5.4
TR2220	22	20	22 1/2	20 1/2	3.2	5.8
TR2222	22	22	22 1/2	22 1/2	3.5	6.2
TR2224	22	24	22 1/2	24 1/2	3.8	6.6
TR2225	22	25	22 1/2	25 1/2	3.9	6.8
TR2226	22	26	22 1/2	26 1/2	4.1	7.0
TR2228	22	28	22 1/2	28 1/2	4.4	7.5
TR2230	22	30	22 1/2	30 1/2	4.7	7.9
TR2232	22	32	22 1/2	32 1/2	5.0	8.3
TR2234	22	34	22 1/2	34 1/2	5.3	8.7
TR2236	22	36	22 1/2	36 1/2	5.7	9.1

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR246	24	6	24 1/2	6 1/2	1.1	3.1
TR248	24	8	24 1/2	8 1/2	1.4	3.5
TR2410	24	10	24 1/2	10 1/2	1.7	4.0
TR2412	24	12	24 1/2	12 1/2	2.1	4.4
TR2414	24	14	24 1/2	14 1/2	2.4	4.8
TR2416	24	16	24 1/2	16 1/2	2.8	5.3
TR2418	24	18	24 1/2	18 1/2	3.1	5.7
TR2420	24	20	24 1/2	20 1/2	3.4	6.2
TR2422	24	22	24 1/2	22 1/2	3.8	6.6
TR2424	24	24	24 1/2	24 1/2	4.1	7.1
TR2425	24	25	24 1/2	25 1/2	4.3	7.3
TR2426	24	26	24 1/2	26 1/2	4.5	7.5
TR2428	24	28	24 1/2	28 1/2	4.8	8.0
TR2430	24	30	24 1/2	30 1/2	5.1	8.4
TR2432	24	32	24 1/2	32 1/2	5.5	8.8
TR2434	24	34	24 1/2	34 1/2	5.8	9.3
TR2436	24	36	24 1/2	36 1/2	6.2	9.7
TR266	26	6	26 1/2	6 1/2	1.1	3.3
TR268	26	8	26 1/2	8 1/2	1.5	3.7
TR2610	26	10	26 1/2	10 1/2	1.9	4.2
TR2612	26	12	26 1/2	12 1/2	2.3	4.7
TR2614	26	14	26 1/2	14 1/2	2.6	5.1
TR2616	26	16	26 1/2	16 1/2	3.0	5.6
TR2618	26	18	26 1/2	18 1/2	3.4	6.1
TR2620	26	20	26 1/2	20 1/2	3.7	6.6
TR2622	26	22	26 1/2	22 1/2	4.1	7.0
TR2624	26	24	26 1/2	24 1/2	4.5	7.5
TR2625	26	25	26 1/2	25 1/2	4.6	7.7
TR2626	26	26	26 1/2	26 1/2	4.8	8.0
TR2628	26	28	26 1/2	28 1/2	5.2	8.5
TR2630	26	30	26 1/2	30 1/2	5.6	8.9
TR2632	26	32	26 1/2	32 1/2	5.9	9.4
TR2634	26	34	26 1/2	34 1/2	6.3	9.9
TR2636	26	36	26 1/2	36 1/2	6.7	10.3
TR286	28	6	28 1/2	6 1/2	1.2	3.5
TR288	28	8	28 1/2	8 1/2	1.6	4.0
TR2810	28	10	28 1/2	10 1/2	2.0	4.5
TR2812	28	12	28 1/2	12 1/2	2.4	5.0
TR2814	28	14	28 1/2	14 1/2	2.8	5.5
TR2816	28	16	28 1/2	16 1/2	3.2	6.0
TR2818	28	18	28 1/2	18 1/2	3.6	6.5
TR2820	28	20	28 1/2	20 1/2	4.0	7.0
TR2822	28	22	28 1/2	22 1/2	4.4	7.5
TR2824	28	24	28 1/2	24 1/2	4.8	8.0
TR2825	28	25	28 1/2	25 1/2	5.0	8.2
TR2826	28	26	28 1/2	26 1/2	5.2	8.5
TR2828	28	28	28 1/2	28 1/2	5.6	9.0
TR2830	28	30	28 1/2	30 1/2	6.0	9.5
TR2832	28	32	28 1/2	32 1/2	6.4	10.0
TR2834	28	34	28 1/2	34 1/2	6.8	10.5
TR2836	28	36	28 1/2	36 1/2	7.2	11.0

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR306	30	6	30 1/2	6 1/2	1.3	3.6
TR308	30	8	30 1/2	8 1/2	1.8	4.2
TR3010	30	10	30 1/2	10 1/2	2.2	4.7
TR3012	30	12	30 1/2	12 1/2	2.6	5.2
TR3014	30	14	30 1/2	14 1/2	3.0	5.8
TR3016	30	16	30 1/2	16 1/2	3.4	6.3
TR3018	30	18	30 1/2	18 1/2	3.9	6.8
TR3020	30	20	30 1/2	20 1/2	4.3	7.3
TR3022	30	22	30 1/2	22 1/2	4.7	7.9
TR3024	30	24	30 1/2	24 1/2	5.1	8.4
TR3025	30	25	30 1/2	25 1/2	5.4	8.7
TR3026	30	26	30 1/2	26 1/2	5.6	8.9
TR3028	30	28	30 1/2	28 1/2	6.0	9.5
TR3030	30	30	30 1/2	30 1/2	6.4	10.0
TR3032	30	32	30 1/2	32 1/2	6.8	10.5
TR3034	30	34	30 1/2	34 1/2	7.3	11.0
TR3036	30	36	30 1/2	36 1/2	7.7	11.6
TR316	31	6	31 1/2	6 1/2	1.4	3.7
TR318	31	8	31 1/2	8 1/2	1.8	4.3
TR3110	31	10	31 1/2	10 1/2	2.2	4.8
TR3112	31	12	31 1/2	12 1/2	2.7	5.4
TR3114	31	14	31 1/2	14 1/2	3.1	5.9
TR3116	31	16	31 1/2	16 1/2	3.6	6.5
TR3118	31	18	31 1/2	18 1/2	4.0	7.0
TR3120	31	20	31 1/2	20 1/2	4.4	7.5
TR3122	31	22	31 1/2	22 1/2	4.9	8.1
TR3124	31	24	31 1/2	24 1/2	5.3	8.6
TR3125	31	25	31 1/2	25 1/2	5.5	8.9
TR3126	31	26	31 1/2	26 1/2	5.7	9.2
TR3128	31	28	31 1/2	28 1/2	6.2	9.7
TR3130	31	30	31 1/2	30 1/2	6.6	10.2
TR3132	31	32	31 1/2	32 1/2	7.1	10.8
TR3134	31	34	31 1/2	34 1/2	7.5	11.3
TR3136	31	36	31 1/2	36 1/2	7.9	11.9
TR326	32	6	32 1/2	6 1/2	1.4	3.8
TR328	32	8	32 1/2	8 1/2	1.9	4.4
TR3210	32	10	32 1/2	10 1/2	2.3	5.0
TR3212	32	12	32 1/2	12 1/2	2.8	5.5
TR3214	32	14	32 1/2	14 1/2	3.2	6.1
TR3216	32	16	32 1/2	16 1/2	3.7	6.6
TR3218	32	18	32 1/2	18 1/2	4.1	7.2
TR3220	32	20	32 1/2	20 1/2	4.6	7.7
TR3222	32	22	32 1/2	22 1/2	5.0	8.3
TR3224	32	24	32 1/2	24 1/2	5.5	8.8
TR3225	32	25	32 1/2	25 1/2	5.7	9.1
TR3226	32	26	32 1/2	26 1/2	5.9	9.4
TR3228	32	28	32 1/2	28 1/2	6.4	10.0
TR3230	32	30	32 1/2	30 1/2	6.8	10.5
TR3232	32	32	32 1/2	32 1/2	7.3	11.1
TR3234	32	34	32 1/2	34 1/2	7.7	11.6
TR3236	32	36	32 1/2	36 1/2	8.2	12.2

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR346	34	6	34 1/2	6 1/2	1.5	4.0
TR348	34	8	34 1/2	8 1/2	2.0	4.6
TR3410	34	10	34 1/2	10 1/2	2.5	5.2
TR3412	34	12	34 1/2	12 1/2	2.9	5.8
TR3414	34	14	34 1/2	14 1/2	3.4	6.4
TR3416	34	16	34 1/2	16 1/2	3.9	7.0
TR3418	34	18	34 1/2	18 1/2	4.4	7.5
TR3420	34	20	34 1/2	20 1/2	4.9	8.1
TR3422	34	22	34 1/2	22 1/2	5.3	8.7
TR3424	34	24	34 1/2	24 1/2	5.8	9.3
TR3425	34	25	34 1/2	25 1/2	6.1	9.6
TR3426	34	26	34 1/2	26 1/2	6.3	9.9
TR3428	34	28	34 1/2	28 1/2	6.8	10.5
TR3430	34	30	34 1/2	30 1/2	7.3	11.0
TR3432	34	32	34 1/2	32 1/2	7.7	11.6
TR3434	34	34	34 1/2	34 1/2	8.2	12.2
TR3436	34	36	34 1/2	36 1/2	8.7	12.8
TR366	36	6	36 1/2	6 1/2	1.6	4.2
TR368	36	8	36 1/2	8 1/2	2.1	4.8
TR3610	36	10	36 1/2	10 1/2	2.6	5.5
TR3612	36	12	36 1/2	12 1/2	3.1	6.1
TR3614	36	14	36 1/2	14 1/2	3.6	6.7
TR3616	36	16	36 1/2	16 1/2	4.1	7.3
TR3618	36	18	36 1/2	18 1/2	4.6	7.9
TR3620	36	20	36 1/2	20 1/2	5.1	8.5
TR3622	36	22	36 1/2	22 1/2	5.7	9.1
TR3624	36	24	36 1/2	24 1/2	6.2	9.7
TR3625	36	25	36 1/2	25 1/2	6.4	10.0
TR3626	36	26	36 1/2	26 1/2	6.7	10.3
TR3628	36	28	36 1/2	28 1/2	7.2	11.0
TR3630	36	30	36 1/2	30 1/2	7.7	11.6
TR3632	36	32	36 1/2	32 1/2	8.2	12.2
TR3634	36	34	36 1/2	34 1/2	8.7	12.8
TR3636	36	36	36 1/2	36 1/2	9.2	13.4
TR386	38	6	38 1/2	6 1/2	1.7	4.4
TR388	38	8	38 1/2	8 1/2	2.2	5.1
TR3810	38	10	38 1/2	10 1/2	2.8	5.7
TR3812	38	12	38 1/2	12 1/2	3.3	6.3
TR3814	38	14	38 1/2	14 1/2	3.8	7.0
TR3816	38	16	38 1/2	16 1/2	4.4	7.6
TR3818	38	18	38 1/2	18 1/2	4.9	8.3
TR3820	38	20	38 1/2	20 1/2	5.4	8.9
TR3822	38	22	38 1/2	22 1/2	6.0	9.5
TR3824	38	24	38 1/2	24 1/2	6.5	10.2
TR3825	38	25	38 1/2	25 1/2	6.8	10.5
TR3826	38	26	38 1/2	26 1/2	7.0	10.8
TR3828	38	28	38 1/2	28 1/2	7.6	11.5
TR3830	38	30	38 1/2	30 1/2	8.1	12.1
TR3832	38	32	38 1/2	32 1/2	8.6	12.7
TR3834	38	34	38 1/2	34 1/2	9.2	13.4
TR3836	38	36	38 1/2	36 1/2	9.7	14.0

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR406	40	6	40 1/2	6 1/2	1.8	4.6
TR408	40	8	40 1/2	8 1/2	2.3	5.3
TR4010	40	10	40 1/2	10 1/2	2.9	6.0
TR4012	40	12	40 1/2	12 1/2	3.5	6.6
TR4014	40	14	40 1/2	14 1/2	4.0	7.3
TR4016	40	16	40 1/2	16 1/2	4.6	8.0
TR4018	40	18	40 1/2	18 1/2	5.2	8.6
TR4020	40	20	40 1/2	20 1/2	5.7	9.3
TR4022	40	22	40 1/2	22 1/2	6.3	10.0
TR4024	40	24	40 1/2	24 1/2	6.8	10.6
TR4025	40	25	40 1/2	25 1/2	7.1	11.0
TR4026	40	26	40 1/2	26 1/2	7.4	11.3
TR4028	40	28	40 1/2	28 1/2	8.0	12.0
TR4030	40	30	40 1/2	30 1/2	8.5	12.6
TR4032	40	32	40 1/2	32 1/2	9.1	13.3
TR4034	40	34	40 1/2	34 1/2	9.7	14.0
TR4036	40	36	40 1/2	36 1/2	10.2	14.6
TR426	42	6	42 1/2	6 1/2	1.9	4.8
TR428	42	8	42 1/2	8 1/2	2.5	5.5
TR4210	42	10	42 1/2	10 1/2	3.0	6.2
TR4212	42	12	42 1/2	12 1/2	3.6	6.9
TR4214	42	14	42 1/2	14 1/2	4.2	7.6
TR4216	42	16	42 1/2	16 1/2	4.8	8.3
TR4218	42	18	42 1/2	18 1/2	5.4	9.0
TR4220	42	20	42 1/2	20 1/2	6.0	9.7
TR4222	42	22	42 1/2	22 1/2	6.6	10.4
TR4224	42	24	42 1/2	24 1/2	7.2	11.1
TR4225	42	25	42 1/2	25 1/2	7.5	11.4
TR4226	42	26	42 1/2	26 1/2	7.8	11.8
TR4228	42	28	42 1/2	28 1/2	8.4	12.5
TR4230	42	30	42 1/2	30 1/2	9.0	13.1
TR4232	42	32	42 1/2	32 1/2	9.5	13.8
TR4234	42	34	42 1/2	34 1/2	10.1	14.5
TR4236	42	36	42 1/2	36 1/2	10.7	15.2
TR446	44	6	44 1/2	6 1/2	2.0	5.0
TR448	44	8	44 1/2	8 1/2	2.6	5.7
TR4410	44	10	44 1/2	10 1/2	3.2	6.5
TR4412	44	12	44 1/2	12 1/2	3.8	7.2
TR4414	44	14	44 1/2	14 1/2	4.4	7.9
TR4416	44	16	44 1/2	16 1/2	5.0	8.6
TR4418	44	18	44 1/2	18 1/2	5.7	9.3
TR4420	44	20	44 1/2	20 1/2	6.3	10.1
TR4422	44	22	44 1/2	22 1/2	6.9	10.8
TR4424	44	24	44 1/2	24 1/2	7.5	11.5
TR4425	44	25	44 1/2	25 1/2	7.8	11.9
TR4426	44	26	44 1/2	26 1/2	8.1	12.2
TR4428	44	28	44 1/2	28 1/2	8.8	13.0
TR4430	44	30	44 1/2	30 1/2	9.4	13.7
TR4432	44	32	44 1/2	32 1/2	10.0	14.4
TR4434	44	34	44 1/2	34 1/2	10.6	15.1
TR4436	44	36	44 1/2	36 1/2	11.2	15.8

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR466	46	6	46 1/2	6 1/2	2.0	5.2
TR468	46	8	46 1/2	8 1/2	2.7	6.0
TR4610	46	10	46 1/2	10 1/2	3.3	6.7
TR4612	46	12	46 1/2	12 1/2	4.0	7.5
TR4614	46	14	46 1/2	14 1/2	4.6	8.2
TR4616	46	16	46 1/2	16 1/2	5.3	9.0
TR4618	46	18	46 1/2	18 1/2	5.9	9.7
TR4620	46	20	46 1/2	20 1/2	6.6	10.5
TR4622	46	22	46 1/2	22 1/2	7.2	11.2
TR4624	46	24	46 1/2	24 1/2	7.9	12.0
TR4625	46	25	46 1/2	25 1/2	8.2	12.3
TR4626	46	26	46 1/2	26 1/2	8.5	12.7
TR4628	46	28	46 1/2	28 1/2	9.2	13.5
TR4630	46	30	46 1/2	30 1/2	9.8	14.2
TR4632	46	32	46 1/2	32 1/2	10.4	15.0
TR4634	46	34	46 1/2	34 1/2	11.1	15.7
TR4636	46	36	46 1/2	36 1/2	11.7	16.5
TR486	48	6	48 1/2	6 1/2	2.1	5.4
TR488	48	8	48 1/2	8 1/2	2.8	6.2
TR4810	48	10	48 1/2	10 1/2	3.5	7.0
TR4812	48	12	48 1/2	12 1/2	4.2	7.7
TR4814	48	14	48 1/2	14 1/2	4.8	8.5
TR4816	48	16	48 1/2	16 1/2	5.5	9.3
TR4818	48	18	48 1/2	18 1/2	6.2	10.1
TR4820	48	20	48 1/2	20 1/2	6.9	10.8
TR4822	48	22	48 1/2	22 1/2	7.5	11.6
TR4824	48	24	48 1/2	24 1/2	8.2	12.4
TR4825	48	25	48 1/2	25 1/2	8.5	12.8
TR4826	48	26	48 1/2	26 1/2	8.9	13.2
TR4828	48	28	48 1/2	28 1/2	9.5	14.0
TR4830	48	30	48 1/2	30 1/2	10.2	14.7
TR4832	48	32	48 1/2	32 1/2	10.9	15.5
TR4834	48	34	48 1/2	34 1/2	11.6	16.3
TR4836	48	36	48 1/2	36 1/2	12.2	17.1
TR506	50	6	50 1/2	6 1/2	2.2	5.6
TR508	50	8	50 1/2	8 1/2	2.9	6.4
TR5010	50	10	50 1/2	10 1/2	3.6	7.2
TR5012	50	12	50 1/2	12 1/2	4.3	8.0
TR5014	50	14	50 1/2	14 1/2	5.0	8.8
TR5016	50	16	50 1/2	16 1/2	5.7	9.6
TR5018	50	18	50 1/2	18 1/2	6.4	10.4
TR5020	50	20	50 1/2	20 1/2	7.1	11.2
TR5022	50	22	50 1/2	22 1/2	7.8	12.0
TR5024	50	24	50 1/2	24 1/2	8.5	12.8
TR5025	50	25	50 1/2	25 1/2	8.9	13.2
TR5026	50	26	50 1/2	26 1/2	9.2	13.6
TR5028	50	28	50 1/2	28 1/2	9.9	14.5
TR5030	50	30	50 1/2	30 1/2	10.6	15.3
TR5032	50	32	50 1/2	32 1/2	11.3	16.1
TR5034	50	34	50 1/2	34 1/2	12.0	16.9
TR5036	50	36	50 1/2	36 1/2	12.8	17.7

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR526	52	6	52 1/2	6 1/2	2.3	5.8
TR528	52	8	52 1/2	8 1/2	3.0	6.6
TR5210	52	10	52 1/2	10 1/2	3.8	7.5
TR5212	52	12	52 1/2	12 1/2	4.5	8.3
TR5214	52	14	52 1/2	14 1/2	5.2	9.1
TR5216	52	16	52 1/2	16 1/2	6.0	10.0
TR5218	52	18	52 1/2	18 1/2	6.7	10.8
TR5220	52	20	52 1/2	20 1/2	7.4	11.6
TR5222	52	22	52 1/2	22 1/2	8.2	12.5
TR5224	52	24	52 1/2	24 1/2	8.9	13.3
TR5225	52	25	52 1/2	25 1/2	9.2	13.7
TR5226	52	26	52 1/2	26 1/2	9.6	14.1
TR5228	52	28	52 1/2	28 1/2	10.3	15.0
TR5230	52	30	52 1/2	30 1/2	11.1	15.8
TR5232	52	32	52 1/2	32 1/2	11.8	16.6
TR5234	52	34	52 1/2	34 1/2	12.5	17.5
TR5236	52	36	52 1/2	36 1/2	13.3	18.3
TR546	54	6	54 1/2	6 1/2	2.4	6.0
TR548	54	8	54 1/2	8 1/2	3.2	6.8
TR5410	54	10	54 1/2	10 1/2	3.9	7.7
TR5412	54	12	54 1/2	12 1/2	4.7	8.6
TR5414	54	14	54 1/2	14 1/2	5.4	9.4
TR5416	54	16	54 1/2	16 1/2	6.2	10.3
TR5418	54	18	54 1/2	18 1/2	7.0	11.1
TR5420	54	20	54 1/2	20 1/2	7.7	12.0
TR5422	54	22	54 1/2	22 1/2	8.5	12.9
TR5424	54	24	54 1/2	24 1/2	9.2	13.7
TR5425	54	25	54 1/2	25 1/2	9.6	14.2
TR5426	54	26	54 1/2	26 1/2	10.0	14.6
TR5428	54	28	54 1/2	28 1/2	10.7	15.5
TR5430	54	30	54 1/2	30 1/2	11.5	16.3
TR5432	54	32	54 1/2	32 1/2	12.3	17.2
TR5434	54	34	54 1/2	34 1/2	13.0	18.0
TR5436	54	36	54 1/2	36 1/2	13.8	18.9
TR566	56	6	56 1/2	6 1/2	2.5	6.2
TR568	56	8	56 1/2	8 1/2	3.3	7.1
TR5610	56	10	56 1/2	10 1/2	4.1	8.0
TR5612	56	12	56 1/2	12 1/2	4.9	8.8
TR5614	56	14	56 1/2	14 1/2	5.6	9.7
TR5616	56	16	56 1/2	16 1/2	6.4	10.6
TR5618	56	18	56 1/2	18 1/2	7.2	11.5
TR5620	56	20	56 1/2	20 1/2	8.0	12.4
TR5622	56	22	56 1/2	22 1/2	8.8	13.3
TR5624	56	24	56 1/2	24 1/2	9.6	14.2
TR5625	56	25	56 1/2	25 1/2	10.0	14.6
TR5626	56	26	56 1/2	26 1/2	10.3	15.1
TR5628	56	28	56 1/2	28 1/2	11.1	16.0
TR5630	56	30	56 1/2	30 1/2	11.9	16.8
TR5632	56	32	56 1/2	32 1/2	12.7	17.7
TR5634	56	34	56 1/2	34 1/2	13.5	18.6
TR5636	56	36	56 1/2	36 1/2	14.3	19.5

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR586	58	6	58 1/2	6 1/2	2.6	6.4
TR588	58	8	58 1/2	8 1/2	3.4	7.3
TR5810	58	10	58 1/2	10 1/2	4.2	8.2
TR5812	58	12	58 1/2	12 1/2	5.0	9.1
TR5814	58	14	58 1/2	14 1/2	5.8	10.0
TR5816	58	16	58 1/2	16 1/2	6.7	11.0
TR5818	58	18	58 1/2	18 1/2	7.5	11.9
TR5820	58	20	58 1/2	20 1/2	8.3	12.8
TR5822	58	22	58 1/2	22 1/2	9.1	13.7
TR5824	58	24	58 1/2	24 1/2	9.9	14.6
TR5825	58	25	58 1/2	25 1/2	10.3	15.1
TR5826	58	26	58 1/2	26 1/2	10.7	15.5
TR5828	58	28	58 1/2	28 1/2	11.5	16.5
TR5830	58	30	58 1/2	30 1/2	12.3	17.4
TR5832	58	32	58 1/2	32 1/2	13.2	18.3
TR5834	58	34	58 1/2	34 1/2	14.0	19.2
TR5836	58	36	58 1/2	36 1/2	14.8	20.1
TR606	60	6	60 1/2	6 1/2	2.7	6.6
TR608	60	8	60 1/2	8 1/2	3.5	7.5
TR6010	60	10	60 1/2	10 1/2	4.4	8.5
TR6012	60	12	60 1/2	12 1/2	5.2	9.4
TR6014	60	14	60 1/2	14 1/2	6.0	10.3
TR6016	60	16	60 1/2	16 1/2	6.9	11.3
TR6018	60	18	60 1/2	18 1/2	7.7	12.2
TR6020	60	20	60 1/2	20 1/2	8.6	13.2
TR6022	60	22	60 1/2	22 1/2	9.4	14.1
TR6024	60	24	60 1/2	24 1/2	10.2	15.1
TR6025	60	25	60 1/2	25 1/2	10.7	15.5
TR6026	60	26	60 1/2	26 1/2	11.1	16.0
TR6028	60	28	60 1/2	28 1/2	11.9	17.0
TR6030	60	30	60 1/2	30 1/2	12.8	17.9
TR6032	60	32	60 1/2	32 1/2	13.6	18.8
TR6034	60	34	60 1/2	34 1/2	14.4	19.8
TR6036	60	36	60 1/2	36 1/2	15.3	20.7
TR646	64	6	64 1/2	6 1/2	2.9	7.0
TR648	64	8	64 1/2	8 1/2	3.8	8.0
TR6410	64	10	64 1/2	10 1/2	4.7	9.0
TR6412	64	12	64 1/2	12 1/2	5.5	10.0
TR6414	64	14	64 1/2	14 1/2	6.4	11.0
TR6416	64	16	64 1/2	16 1/2	7.3	12.0
TR6418	64	18	64 1/2	18 1/2	8.2	13.0
TR6420	64	20	64 1/2	20 1/2	9.1	14.0
TR6422	64	22	64 1/2	22 1/2	10.0	15.0
TR6424	64	24	64 1/2	24 1/2	10.9	16.0
TR6425	64	25	64 1/2	25 1/2	11.4	16.5
TR6426	64	26	64 1/2	26 1/2	11.8	17.0
TR6428	64	28	64 1/2	28 1/2	12.7	18.0
TR6430	64	30	64 1/2	30 1/2	13.6	19.0
TR6432	64	32	64 1/2	32 1/2	14.5	20.0
TR6434	64	34	64 1/2	34 1/2	15.4	21.0
TR6436	64	36	64 1/2	36 1/2	16.3	22.0

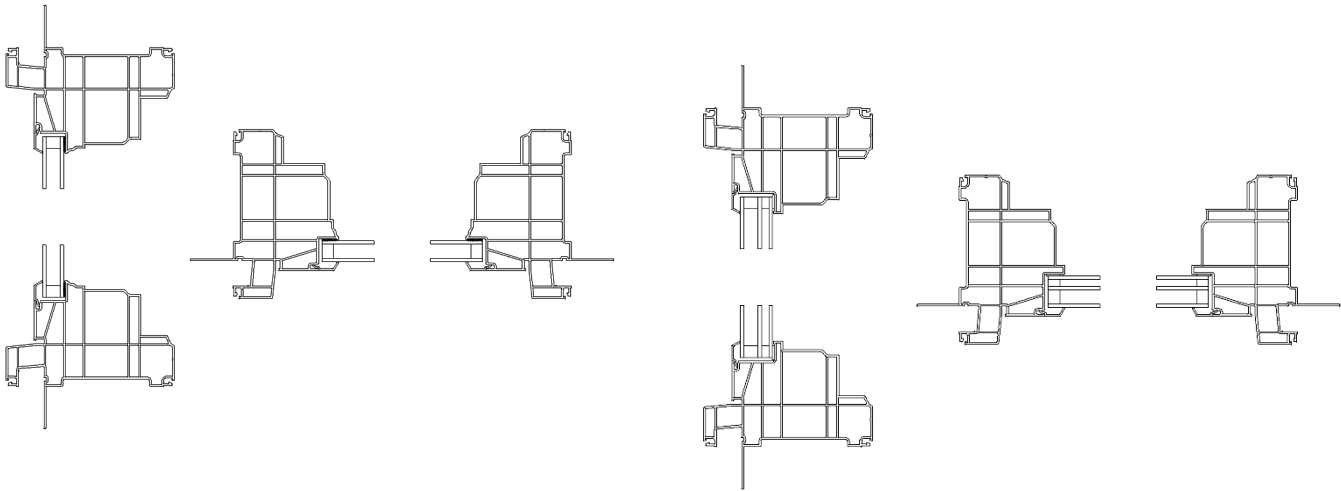
Garage/Long Transom Window Thermal Performance

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E (Cardinal 270)	0.28	0.28	0.51	57	Yes	-	-	-	-
Dual Pane Clear	0.41	0.58	0.60	44	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E Tempered (Cardinal 270)	0.28	0.28	0.51	56	Yes	-	-	-	-
Dual Pane Clear Tempered	0.41	0.58	0.60	44	-	-	-	-	-

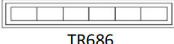

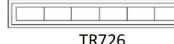
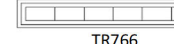


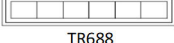

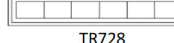



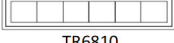
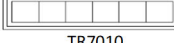
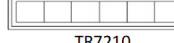















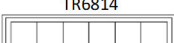
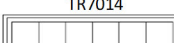




<sup>1</sup> = Meets 2021 IECC and older in most northern zones

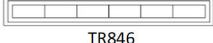
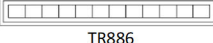
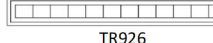
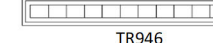

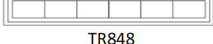
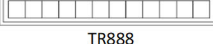
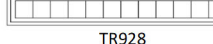
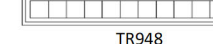

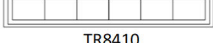
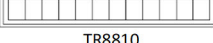

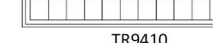











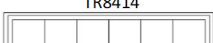
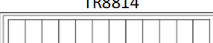



Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.

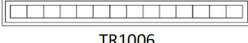
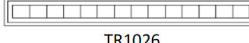

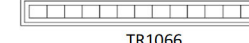
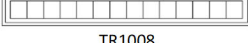
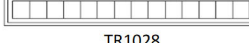
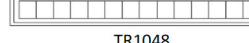
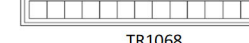

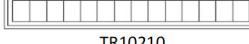
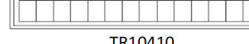
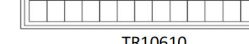








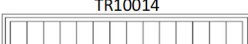
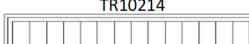
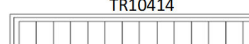
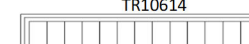
Detail Drawings:



For additional drawings, visit [mathewsbros.com](http://mathewsbros.com)

Rough Opening			76 1/2	78 1/2	80 1/2	84 1/2	88 1/2	90 1/2
Frame Size			76	78	80	84	88	90
Call Size			68	70	72	76	80	82
14 1/2	14	6	 TR686	 TR706	 TR726	 TR766	 TR806	 TR826
16 1/2	16	8	 TR688	 TR708	 TR728	 TR768	 TR808	 TR828
18 1/2	18	10	 TR6810	 TR7010	 TR7210	 TR7610	 TR8010	 TR8210
20 1/2	20	12	 TR6812	 TR7012	 TR7212	 TR7612	 TR8012	 TR8212
22 1/2	22	14	 TR6814	 TR7014	 TR7214	 TR7614	 TR8014	 TR8214
24 1/2	24	16	 TR6816	 TR7016	 TR7216	 TR7616	 TR8016	 TR8216

Rough Opening			92 1/2	96 1/2	100 1/2	102 1/2	104 1/2
Frame Size			92	96	100	102	104
Call Size			84	88	92	94	96
14 1/2	14	6	 TR846	 TR886	 TR926	 TR946	 TR966
16 1/2	16	8	 TR848	 TR888	 TR928	 TR948	 TR968
18 1/2	18	10	 TR8410	 TR8810	 TR9210	 TR9410	 TR9610
20 1/2	20	12	 TR8412	 TR8812	 TR9212	 TR9412	 TR9612
22 1/2	22	14	 TR8414	 TR8814	 TR9214	 TR9414	 TR9614
24 1/2	24	16	 TR8416	 TR8816	 TR9216	 TR9416	 TR9616

Rough Opening			108 1/2	110 1/2	112 1/2	114 1/2
Frame Size			108	110	112	114
Call Size			100	102	104	106
14 1/2	14	6	 TR1006	 TR1026	 TR1046	 TR1066
16 1/2	16	8	 TR1008	 TR1028	 TR1048	 TR1068
18 1/2	18	10	 TR10010	 TR10210	 TR10410	 TR10610
20 1/2	20	12	 TR10012	 TR10212	 TR10412	 TR10612
22 1/2	22	14	 TR10014	 TR10214	 TR10414	 TR10614
24 1/2	24	16	 TR10016	 TR10216	 TR10416	 TR10616

Rough Opening			76 1/2	78 1/2	80 1/2	84 1/2	88 1/2
	Frame Size		76	78	80	84	88
		Call Size	68	70	72	76	80
14 1/2	14	6	TR686	TR706	TR726	TR766	TR806
16 1/2	16	8	TR688	TR708	TR728	TR768	TR808
18 1/2	18	10	TR6810	TR7010	TR7210	TR7610	TR8010
20 1/2	20	12	TR6812	TR7012	TR7212	TR7612	TR8012
22 1/2	22	14	TR6814	TR7014	TR7214	TR7614	TR8014
24 1/2	24	16	TR6816	TR7016	TR7216	TR7616	TR8016

Rough Opening			90 1/2	92 1/2	96 1/2	100 1/2	102 1/2
	Frame Size		90	92	96	100	102
		Call Size	82	84	88	92	94
14 1/2	14	6	TR826	TR846	TR886	TR926	TR946
16 1/2	16	8	TR828	TR848	TR888	TR928	TR948
18 1/2	18	10	TR8210	TR8410	TR8810	TR9210	TR9410
20 1/2	20	12	TR8212	TR8412	TR8812	TR9212	TR9412
22 1/2	22	14	TR8214	TR8414	TR8814	TR9214	TR9414
24 1/2	24	16	TR8216	TR8416	TR8816	TR9216	TR9416

Rough Opening			104 1/2	108 1/2	110 1/2	112 1/2	114 1/2
	Frame Size		104	108	110	112	114
		Call Size	96	100	102	104	106
14 1/2	14	6	TR966	TR1006	TR1026	TR1046	TR1066
16 1/2	16	8	TR968	TR1008	TR1028	TR1048	TR1068
18 1/2	18	10	TR9610	TR10010	TR10210	TR10410	TR10610
20 1/2	20	12	TR9612	TR10012	TR10212	TR10412	TR10612
22 1/2	22	14	TR9614	TR10014	TR10214	TR10414	TR10614
24 1/2	24	16	TR9616	TR10016	TR10216	TR10416	TR10616

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR826	82	6	82 1/2	6 1/2	3.7	8.7
TR828	82	8	82 1/2	8 1/2	4.8	10.0
TR8210	82	10	82 1/2	10 1/2	6.0	11.2
TR8212	82	12	82 1/2	12 1/2	7.1	12.5
TR8214	82	14	82 1/2	14 1/2	8.3	13.7
TR8216	82	16	82 1/2	16 1/2	9.4	15.0
TR846	84	6	84 1/2	6 1/2	3.8	8.9
TR848	84	8	84 1/2	8 1/2	4.9	10.2
TR8410	84	10	84 1/2	10 1/2	6.1	11.5
TR8412	84	12	84 1/2	12 1/2	7.3	12.7
TR8414	84	14	84 1/2	14 1/2	8.5	14.0
TR8416	84	16	84 1/2	16 1/2	9.6	15.3
TR886	88	6	88 1/2	6 1/2	3.9	9.3
TR888	88	8	88 1/2	8 1/2	5.2	10.6
TR8810	88	10	88 1/2	10 1/2	6.4	12.0
TR8812	88	12	88 1/2	12 1/2	7.6	13.3
TR8814	88	14	88 1/2	14 1/2	8.9	14.6
TR8816	88	16	88 1/2	16 1/2	10.1	16.0
TR926	92	6	92 1/2	6 1/2	4.1	9.7
TR928	92	8	92 1/2	8 1/2	5.4	11.1
TR9210	92	10	92 1/2	10 1/2	6.7	12.5
TR9212	92	12	92 1/2	12 1/2	8.0	13.8
TR9214	92	14	92 1/2	14 1/2	9.3	15.2
TR9216	92	16	92 1/2	16 1/2	10.5	16.6
TR946	94	6	94 1/2	6 1/2	4.2	9.9
TR948	94	8	94 1/2	8 1/2	5.5	11.3
TR9410	94	10	94 1/2	10 1/2	6.8	12.7
TR9412	94	12	94 1/2	12 1/2	8.2	14.1
TR9414	94	14	94 1/2	14 1/2	9.5	15.5
TR9416	94	16	94 1/2	16 1/2	10.8	17.0

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
TR966	96	6	96 1/2	6 1/2	4.3	10.1
TR968	96	8	96 1/2	8 1/2	5.6	11.5
TR9610	96	10	96 1/2	10 1/2	7.0	13.0
TR9612	96	12	96 1/2	12 1/2	8.3	14.4
TR9614	96	14	96 1/2	14 1/2	9.7	15.8
TR9616	96	16	96 1/2	16 1/2	11.0	17.3
TR1006	100	6	100 1/2	6 1/2	4.5	10.5
TR1008	100	8	100 1/2	8 1/2	5.9	12.0
TR10010	100	10	100 1/2	10 1/2	7.3	13.5
TR10012	100	12	100 1/2	12 1/2	8.7	15.0
TR10014	100	14	100 1/2	14 1/2	10.1	16.5
TR10016	100	16	100 1/2	16 1/2	11.5	18.0
TR1026	102	6	102 1/2	6 1/2	4.6	10.6
TR1028	102	8	102 1/2	8 1/2	6.0	12.2
TR10210	102	10	102 1/2	10 1/2	7.4	13.7
TR10212	102	12	102 1/2	12 1/2	8.8	15.2
TR10214	102	14	102 1/2	14 1/2	10.3	16.8
TR10216	102	16	102 1/2	16 1/2	11.7	18.3
TR1046	104	6	104 1/2	6 1/2	4.7	10.8
TR1048	104	8	104 1/2	8 1/2	6.1	12.4
TR10410	104	10	104 1/2	10 1/2	7.6	14.0
TR10412	104	12	104 1/2	12 1/2	9.0	15.5
TR10414	104	14	104 1/2	14 1/2	10.5	17.1
TR10416	104	16	104 1/2	16 1/2	11.9	18.6
TR1066	106	6	106 1/2	6 1/2	4.8	11.0
TR1068	106	8	106 1/2	8 1/2	6.2	12.6
TR10610	106	10	106 1/2	10 1/2	7.7	14.2
TR10612	106	12	106 1/2	12 1/2	9.2	15.8
TR10614	106	14	106 1/2	14 1/2	10.7	17.4
TR10616	106	16	106 1/2	16 1/2	12.2	19.0

### Double Hung Sash Glaze Picture Window Thermal Performance

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.26	0.28	0.52	61	Yes	-	-	-	-
Dual Pane Low-E (Cardinal 270)	0.29	0.28	0.52	58	Yes	-	-	-	-
Dual Pane Clear	0.43	0.59	0.61	45	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.26	0.28	0.52	61	Yes	-	-	-	-
Dual Pane Low-E Tempered (Cardinal 270)	0.29	0.28	0.52	57	Yes	-	-	-	-
Dual Pane Clear Tempered	0.43	0.59	0.61	45	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.26	0.46	0.57	62	Yes	N	-	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.26	0.46	0.57	62	Yes	N	-	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.21	0.26	0.48	70	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.19	0.24	0.41	75	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.22	0.26	0.48	68	Yes	-	NC	-	-
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.18	0.24	0.41	73	Yes	N	NC	-	-
Triple Pane E7 (Cardinal 270)	0.21	0.26	0.48	70	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 270)	0.22	0.26	0.48	68	Yes	-	NC	-	-
Triple Pane E7 Tempered (Cardinal 180)	0.24	0.45	0.54	65	Yes	N	-	-	-

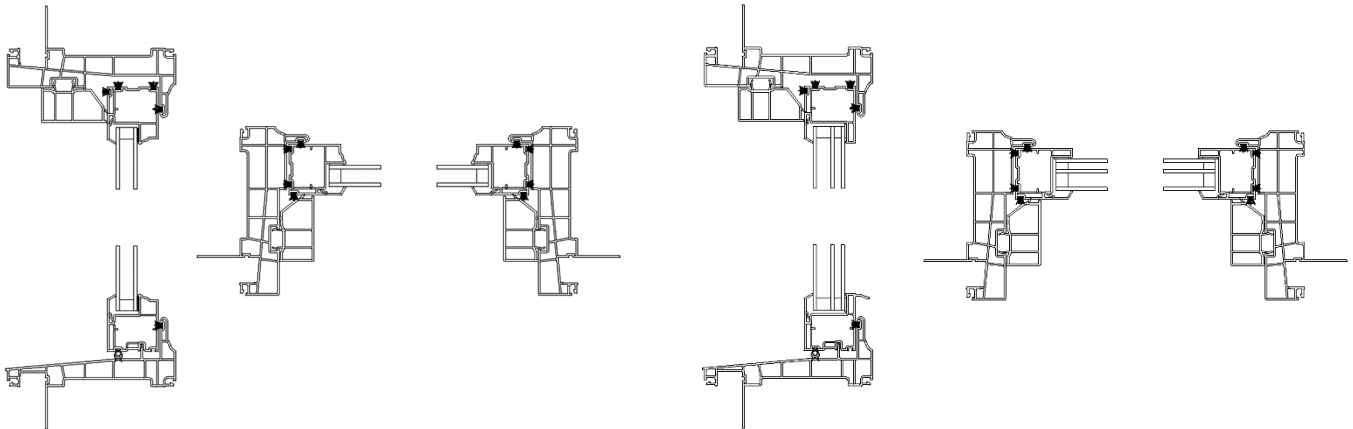
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.

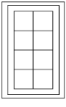
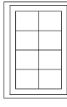



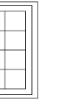





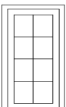
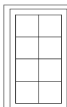
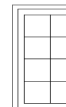
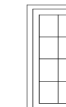

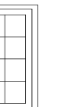



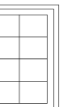






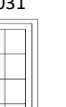
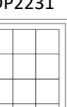


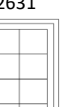
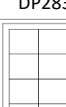

















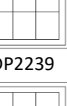



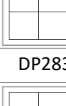
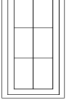
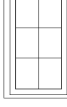



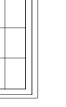




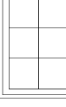
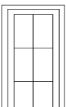
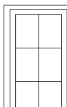
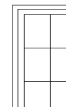
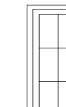
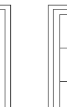
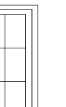
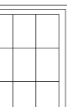
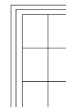


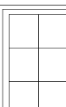











### Double Hung Sash Glaze Picture Window Structural Performance (Dual and Triple Pane Glazing)

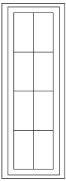
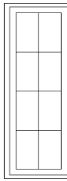







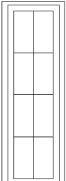
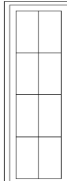







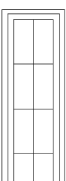
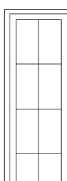





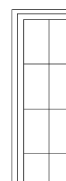

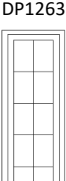
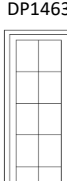
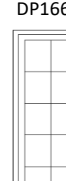




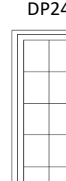








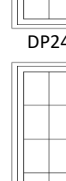

Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Double Hung Sash Glaze Picture	60 x 60	Single	PG60	CW
Double Hung Sash Glaze Picture	72 x 72	Single	PG50	LC
Double Hung Sash Glaze Picture	72 x 84	Single	PG35	LC

Detail Drawings:

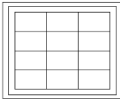
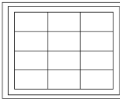
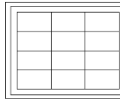
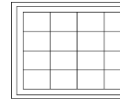
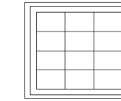
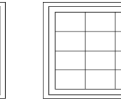
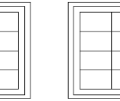
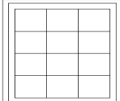
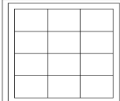
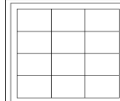
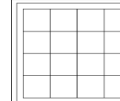
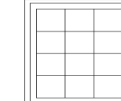
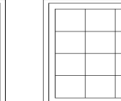

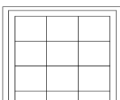
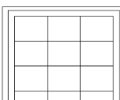
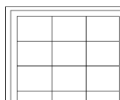
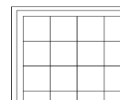
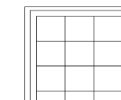
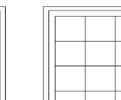

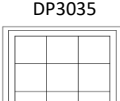
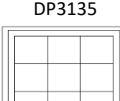
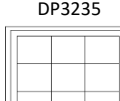
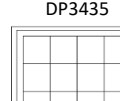
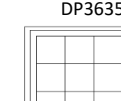
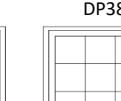

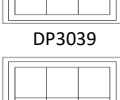
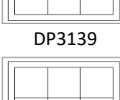





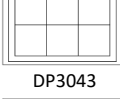
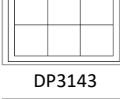
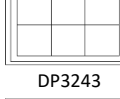
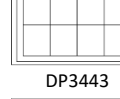



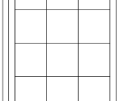
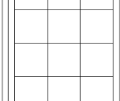
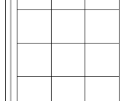
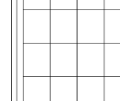
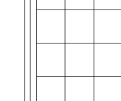
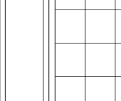
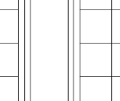
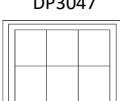
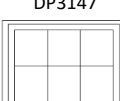

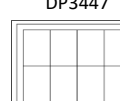
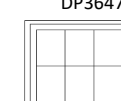
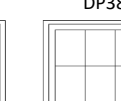



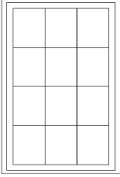
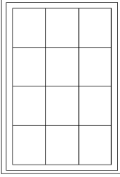
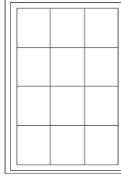
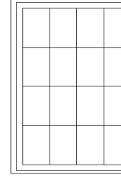
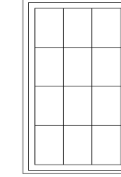
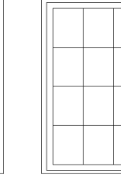
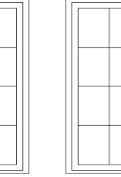
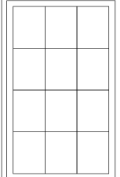
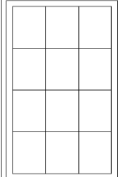
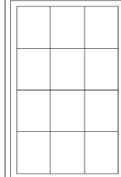
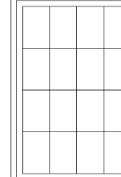
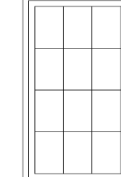
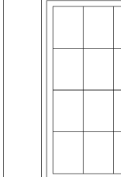
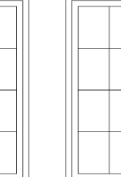
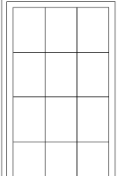
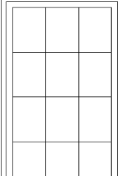
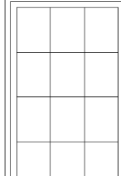
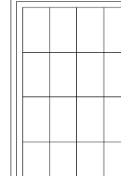
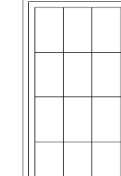
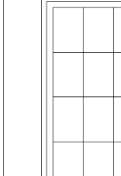
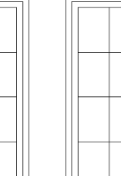
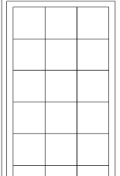
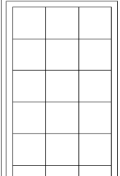
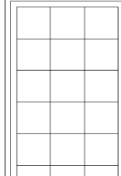
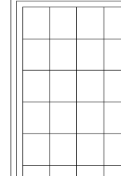
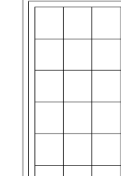
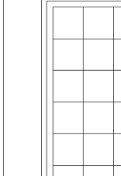
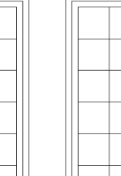
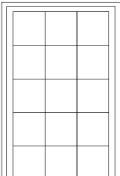
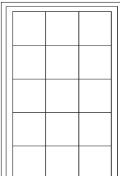
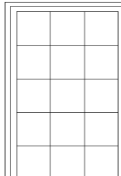
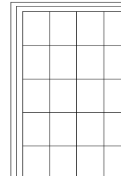
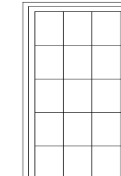
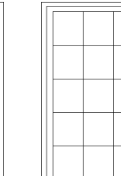
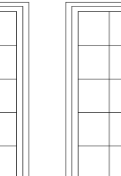
For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2													
Frame Size	20	22	24	26	28	30	32	34	36													
Call Size	12	14	16	18	20	22	24	26	28													
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38 1/2	38	31												DP1231	DP1431	DP1631	DP1831	DP2031	DP2231	DP2431	DP2631	DP2831
42 1/2	42	35												DP1235	DP1435	DP1635	DP1835	DP2035	DP2235	DP2435	DP2635	DP2835
46 1/2	46	39												DP1239	DP1439	DP1639	DP1839	DP2039	DP2239	DP2439	DP2639	DP2839
50 1/2	50	43												DP1243	DP1443	DP1643	DP1843	DP2043	DP2243	DP2443	DP2643	DP2843
54 1/2	54	47												DP1247	DP1447	DP1647	DP1847	DP2047	DP2247	DP2447	DP2647	DP2847
58 1/2	58	51												DP1251	DP1451	DP1651	DP1851	DP2051	DP2251	DP2451	DP2651	DP2851
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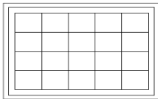
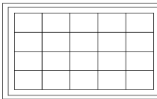
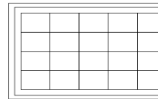
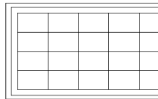
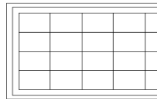
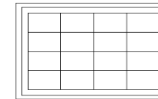
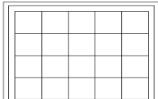
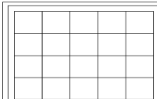
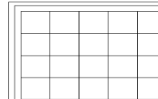
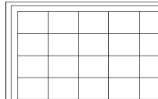
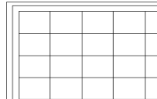
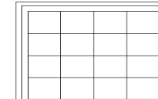
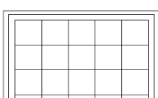
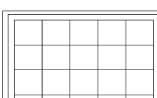
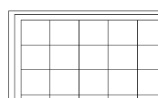
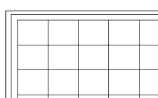
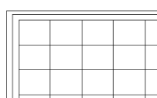
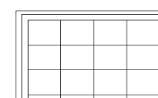
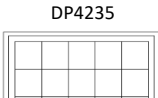
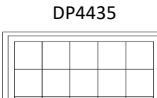
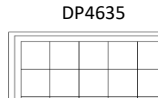
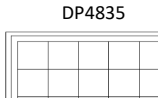
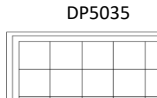
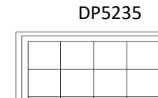
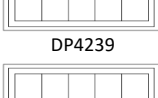
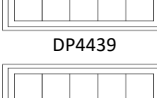
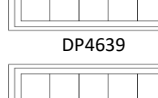
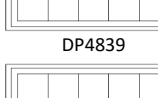
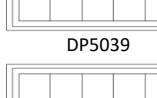
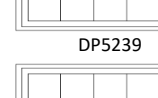
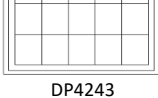
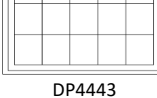
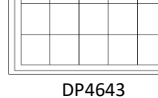
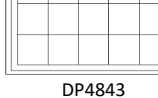
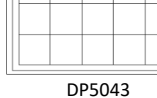
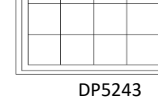





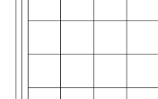
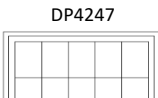
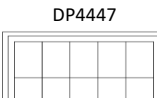
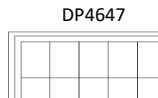
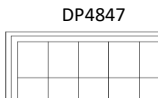
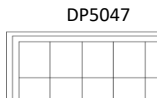
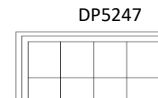
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Frame Size	20	22	24	26	28	30	32	34	36		
Call Size	12	14	16	18	20	22	24	26	28		
62 1/2	62	55									
			DP1255	DP1455	DP1655	DP1855	DP2055	DP2255	DP2455	DP2655	DP2855
66 1/2	66	59									
			DP1259	DP1459	DP1659	DP1859	DP2059	DP2259	DP2459	DP2659	DP2859
70 1/2	70	63									
			DP1263	DP1463	DP1663	DP1863	DP2063	DP2263	DP2463	DP2663	DP2863
74 1/2	74	67									
			DP1267	DP1467	DP1667	DP1867	DP2067	DP2267	DP2467	DP2667	DP2867
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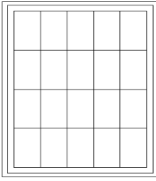
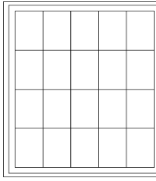
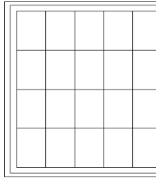
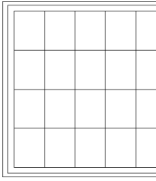
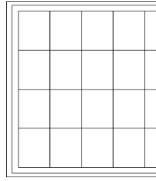
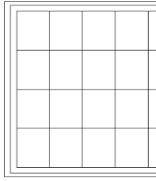
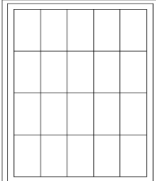
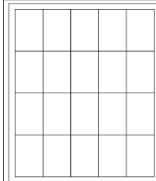
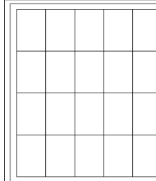
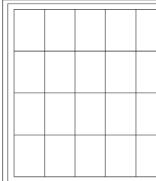
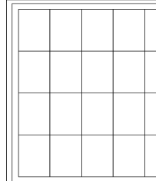
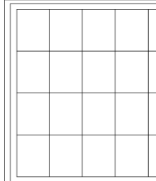
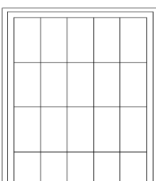
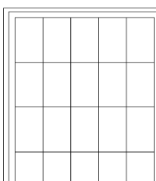
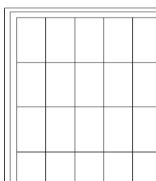
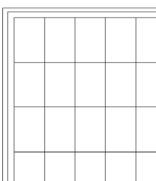
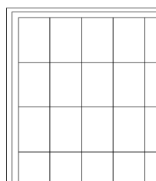
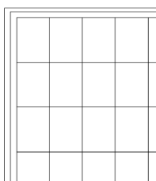
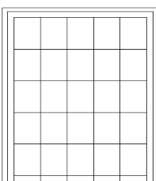
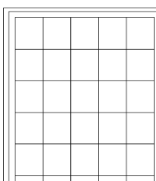
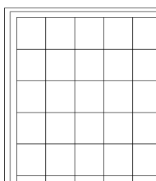
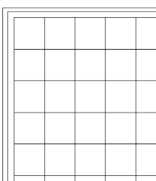
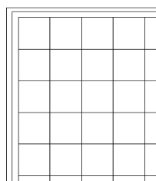
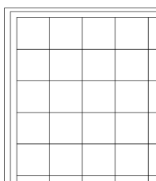
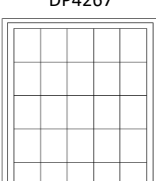
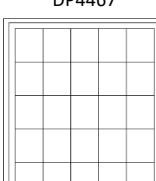
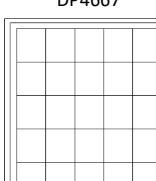
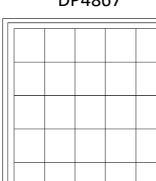
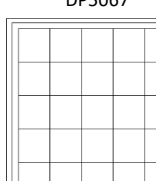
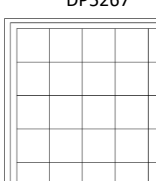
Maximum frame height for triple pane is 72"

Rough Opening			38 1/2	39 1/2	40 1/2	42 1/2	44 1/2	46 1/2	48 1/2
Frame Size			38	39	40	42	44	46	48
Call Size			30	31	32	34	36	38	40
34 1/2	34	27	 DP3027	 DP3127	 DP3227	 DP3427	 DP3627	 DP3827	 DP4027
38 1/2	38	31	 DP3031	 DP3131	 DP3231	 DP3431	 DP3631	 DP3831	 DP4031
42 1/2	42	35	 DP3035	 DP3135	 DP3235	 DP3435	 DP3635	 DP3835	 DP4035
46 1/2	46	39	 DP3039	 DP3139	 DP3239	 DP3439	 DP3639	 DP3839	 DP4039
50 1/2	50	43	 DP3043	 DP3143	 DP3243	 DP3443	 DP3643	 DP3843	 DP4043
54 1/2	54	47	 DP3047	 DP3147	 DP3247	 DP3447	 DP3647	 DP3847	 DP4047
58 1/2	58	51	 DP3051	 DP3151	 DP3251	 DP3451	 DP3651	 DP3851	 DP4051
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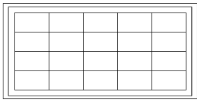
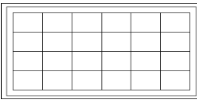
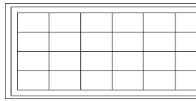
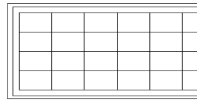
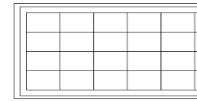
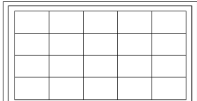
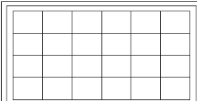
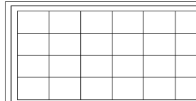
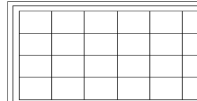
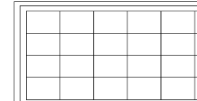
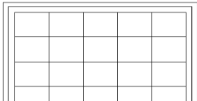
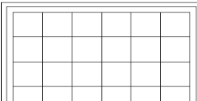
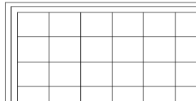
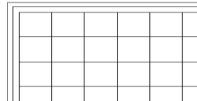
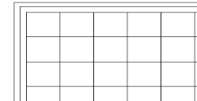
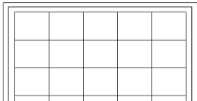
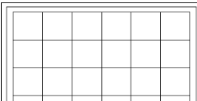
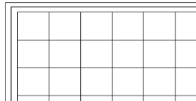
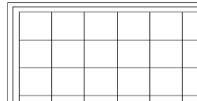
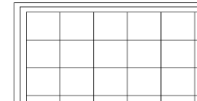
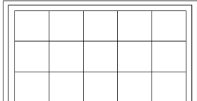
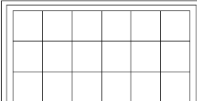
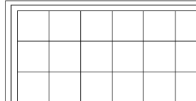
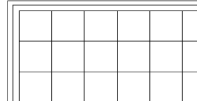
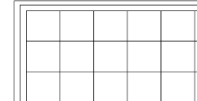
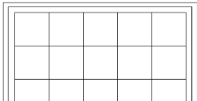
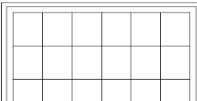
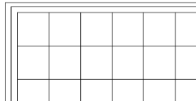
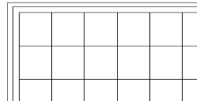
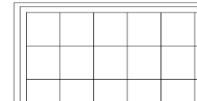
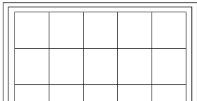
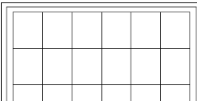
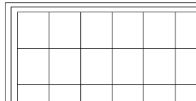
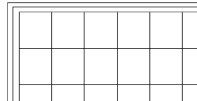
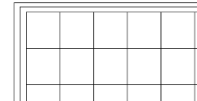
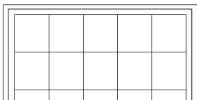
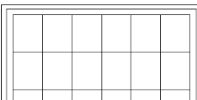
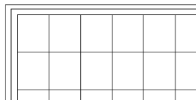
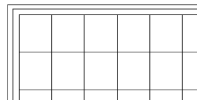
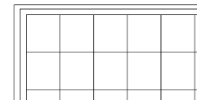
Rough Opening			38 1/2	39 1/2	40 1/2	42 1/2	44 1/2	46 1/2	48 1/2
	Frame Size		38	39	40	42	44	46	48
	Call Size		30	31	32	34	36	38	40
62 1/2	62	55							
			DP3055	DP3155	DP3255	DP3455	DP3655	DP3855	DP4055
66 1/2	66	59							
			DP3059	DP3159	DP3259	DP3459	DP3659	DP3859	DP4059
70 1/2	70	63							
			DP3063	DP3163	DP3263	DP3463	DP3663	DP3863	DP4063
74 1/2	74	67							
			DP3067	DP3167	DP3267	DP3467	DP3667	DP3867	DP4067
78 1/2	78	71							
			DP3071	DP3171	DP3271	DP3471	DP3671	DP3871	DP4071

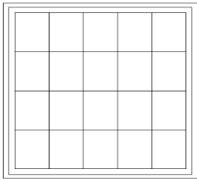
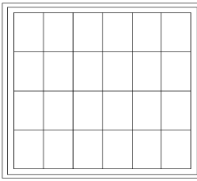
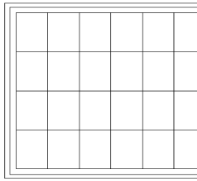
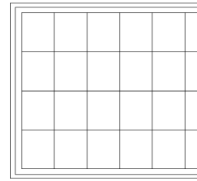
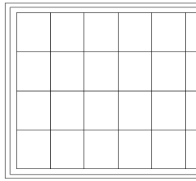
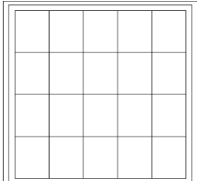
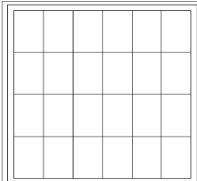
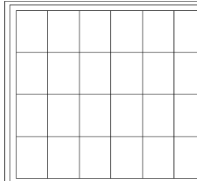
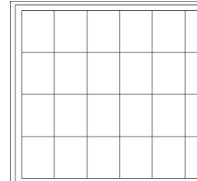
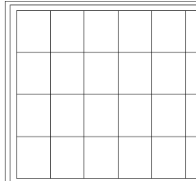
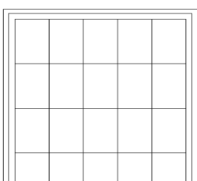
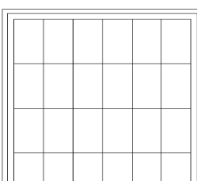
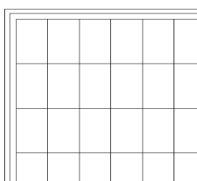
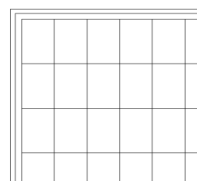
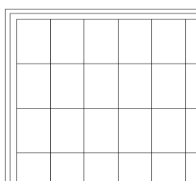
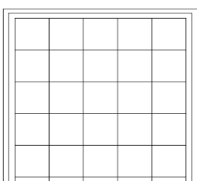
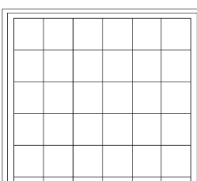
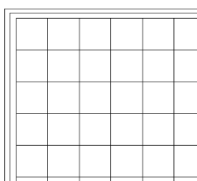
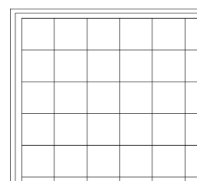
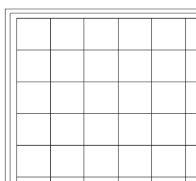
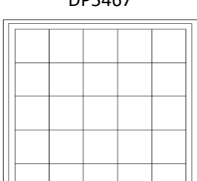
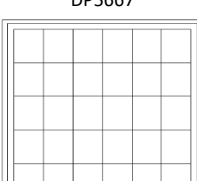
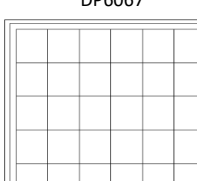
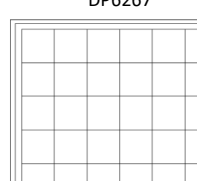
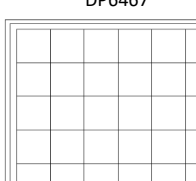
Maximum frame height for triple pane is 72"

Rough Opening	50 1/2	52 1/2	54 1/2	56 1/2	58 1/2	60 1/2		
Frame Size	50	52	54	56	58	60		
Call Size	42	44	46	48	50	52		
34 1/2	34	27	 DP4227	 DP4427	 DP4627	 DP4827	 DP5027	 DP5227
38 1/2	38	31	 DP4231	 DP4431	 DP4631	 DP4831	 DP5031	 DP5231
42 1/2	42	35	 DP4235	 DP4435	 DP4635	 DP4835	 DP5035	 DP5235
46 1/2	46	39	 DP4239	 DP4439	 DP4639	 DP4839	 DP5039	 DP5239
50 1/2	50	43	 DP4243	 DP4443	 DP4643	 DP4843	 DP5043	 DP5243
54 1/2	54	47	 DP4247	 DP4447	 DP4647	 DP4847	 DP5047	 DP5247
58 1/2	58	51	 DP4251	 DP4451	 DP4651	 DP4851	 DP5051	 DP5251
60 1/2	60	53	 DP4253	 DP4453	 DP4653	 DP4853	 DP5053	 DP5253

Rough Opening	50 1/2	52 1/2	54 1/2	56 1/2	58 1/2	60 1/2
Frame Size	50	52	54	56	58	60
Call Size	42	44	46	48	50	52
62 1/2 62 55	 DP4255	 DP4455	 DP4655	 DP4855	 DP5055	 DP5255
66 1/2 66 59	 DP4259	 DP4459	 DP4659	 DP4859	 DP5059	 DP5259
70 1/2 70 63	 DP4263	 DP4463	 DP4663	 DP4863	 DP5063	 DP5263
74 1/2 74 67	 DP4267	 DP4467	 DP4667	 DP4867	 DP5067	 DP5267
78 1/2 78 71	 DP4271	 DP4471	 DP4671	 DP4871	 DP5071	 DP5271

Maximum frame height for triple pane is 72"

Rough Opening	62 1/2	64 1/2	68 1/2	70 1/2	72 1/2
Frame Size	62	64	68	70	72
Call Size	54	56	60	62	64
34 1/2	34 27  DP5427	34 27  DP5627	34 27  DP6027	34 27  DP6227	34 27  DP6427
38 1/2	38 31  DP5431	38 31  DP5631	38 31  DP6031	38 31  DP6231	38 31  DP6431
42 1/2	42 35  DP5435	42 35  DP5635	42 35  DP6035	42 35  DP6235	42 35  DP6435
46 1/2	46 39  DP5439	46 39  DP5639	46 39  DP6039	46 39  DP6239	46 39  DP6439
50 1/2	50 43  DP5443	50 43  DP5643	50 43  DP6043	50 43  DP6243	50 43  DP6443
54 1/2	54 47  DP5447	54 47  DP5647	54 47  DP6047	54 47  DP6247	54 47  DP6447
58 1/2	58 51  DP5451	58 51  DP5651	58 51  DP6051	58 51  DP6251	58 51  DP6451
60 1/2	60 53  DP5453	60 53  DP5653	60 53  DP6053	60 53  DP6253	60 53  DP6453

Rough Opening			62 1/2	64 1/2	68 1/2	70 1/2	72 1/2
Frame Size			62	64	68	70	72
Call Size			54	56	60	62	64
62 1/2	62	55	 DP5455	 DP5655	 DP6055	 DP6255	 DP6455
66 1/2	66	59	 DP5459	 DP5659	 DP6059	 DP6259	 DP6459
70 1/2	70	63	 DP5463	 DP5663	 DP6063	 DP6263	 DP6463
74 1/2	74	67	 DP5467	 DP5667	 DP6067	 DP6267	 DP6467
78 1/2	78	71	 DP5471	 DP5671	 DP6071	 DP6271	 DP6471

Maximum frame height for triple pane is 72"

Rough Opening			20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2
	Frame Size		20	22	24	26	28	30	32	34	36
		Call Size	12	14	16	18	20	22	24	26	28
34 1/2	34	27	DP1227	DP1427	DP1627	DP1827	DP2027	DP2227	DP2427	DP2627	DP2827
38 1/2	38	31	DP1231	DP1431	DP1631	DP1831	DP2031	DP2231	DP2431	DP2631	DP2831
42 1/2	42	35	DP1235	DP1435	DP1635	DP1835	DP2035	DP2235	DP2435	DP2635	DP2835
46 1/2	46	39	DP1239	DP1439	DP1639	DP1839	DP2039	DP2239	DP2439	DP2639	DP2839
50 1/2	50	43	DP1243	DP1443	DP1643	DP1843	DP2043	DP2243	DP2443	DP2643	DP2843
54 1/2	54	47	DP1247	DP1447	DP1647	DP1847	DP2047	DP2247	DP2447	DP2647	DP2847
58 1/2	58	51	DP1251	DP1451	DP1651	DP1851	DP2051	DP2251	DP2451	DP2651	DP2851
60 1/2	60	53	DP1253	DP1453	DP1653	DP1853	DP2053	DP2253	DP2453	DP2653	DP2853
62 1/2	62	55	DP1255	DP1455	DP1655	DP1855	DP2055	DP2255	DP2455	DP2655	DP2855
66 1/2	66	59	DP1259	DP1459	DP1659	DP1859	DP2059	DP2259	DP2459	DP2659	DP2859
70 1/2	70	63	DP1263	DP1463	DP1663	DP1863	DP2063	DP2263	DP2463	DP2663	DP2863
74 1/2	74	67	DP1267	DP1467	DP1667	DP1867	DP2067	DP2267	DP2467	DP2667	DP2867
78 1/2	78	71	DP1271	DP1471	DP1671	DP1871	DP2071	DP2271	DP2471	DP2671	DP2871

Maximum Height for triple pane glass is 72"

Rough Opening			38 1/2	39 1/2	40 1/2	42 1/2	44 1/2	46 1/2	48 1/2	50 1/2	52 1/2
	Frame Size		38	39	40	42	44	46	48	50	52
		Call Size	30	31	32	34	36	38	40	42	44
34 1/2	34	27	DP3027	DP3127	DP3227	DP3427	DP3627	DP3827	DP4027	DP4227	DP4427
38 1/2	38	31	DP3031	DP3131	DP3231	DP3431	DP3631	DP3831	DP4031	DP4231	DP4431
42 1/2	42	35	DP3035	DP3135	DP3235	DP3435	DP3635	DP3835	DP4035	DP4235	DP4435
46 1/2	46	39	DP3039	DP3139	DP3239	DP3439	DP3639	DP3839	DP4039	DP4239	DP4439
50 1/2	50	43	DP3043	DP3143	DP3243	DP3443	DP3643	DP3843	DP4043	DP4243	DP4443
54 1/2	54	47	DP3047	DP3147	DP3247	DP3447	DP3647	DP3847	DP4047	DP4247	DP4447
58 1/2	58	51	DP3051	DP3151	DP3251	DP3451	DP3651	DP3851	DP4051	DP4251	DP4451
60 1/2	60	53	DP3053	DP3153	DP3253	DP3453	DP3653	DP3853	DP4053	DP4253	DP4453
62 1/2	62	55	DP3055	DP3155	DP3255	DP3455	DP3655	DP3855	DP4055	DP4255	DP4455
66 1/2	66	59	DP3059	DP3159	DP3259	DP3459	DP3659	DP3859	DP4059	DP4259	DP4459
70 1/2	70	63	DP3063	DP3163	DP3263	DP3463	DP3663	DP3863	DP4063	DP4263	DP4463
74 1/2	74	67	DP3067	DP3167	DP3267	DP3467	DP3667	DP3867	DP4067	DP4267	DP4467
78 1/2	78	71	DP3071	DP3171	DP3271	DP3471	DP3671	DP3871	DP4071	DP4271	DP4471

Maximum Height for triple pane glass is 72"

Rough Opening			54 1/2	56 1/2	58 1/2	60 1/2	62 1/2	64 1/2	68 1/2	70 1/2	72 1/2
	Frame Size		54	56	58	60	62	64	68	70	72
		Call Size	46	48	50	52	54	56	60	62	64
34 1/2	34	27	DP4627	DP4827	DP5027	DP5227	DP5427	DP5627	DP6027	DP6227	DP6427
38 1/2	38	31	DP4631	DP4831	DP5031	DP5231	DP5431	DP5631	DP6031	DP6231	DP6431
42 1/2	42	35	DP4635	DP4835	DP5035	DP5235	DP5435	DP5635	DP6035	DP6235	DP6435
46 1/2	46	39	DP4639	DP4839	DP5039	DP5239	DP5439	DP5639	DP6039	DP6239	DP6439
50 1/2	50	43	DP4643	DP4843	DP5043	DP5243	DP5443	DP5643	DP6043	DP6243	DP6443
54 1/2	54	47	DP4647	DP4847	DP5047	DP5247	DP5447	DP5647	DP6047	DP6247	DP6447
58 1/2	58	51	DP4651	DP4851	DP5051	DP5251	DP5451	DP5651	DP6051	DP6251	DP6451
60 1/2	60	53	DP4653	DP4853	DP5053	DP5253	DP5453	DP5653	DP6053	DP6253	DP6453
62 1/2	62	55	DP4655	DP4855	DP5055	DP5255	DP5455	DP5655	DP6055	DP6255	DP6455
66 1/2	66	59	DP4659	DP4859	DP5059	DP5259	DP5459	DP5659	DP6059	DP6259	DP6459
70 1/2	70	63	DP4663	DP4863	DP5063	DP5263	DP5463	DP5663	DP6063	DP6263	DP6463
74 1/2	74	67	DP4667	DP4867	DP5067	DP5267	DP5467	DP5667	DP6067	-	-
78 1/2	78	71	DP4671	DP4871	DP5071	DP5271	DP5471	DP5671	-	-	-

Maximum Height for triple pane glass is 72"

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP1227	12	27	12 7/16	27 5/16	2.3	4.7
DP1231	12	31	12 7/16	31 5/16	2.7	5.2
DP1235	12	35	12 7/16	35 5/16	3.0	5.8
DP1239	12	39	12 7/16	39 5/16	3.4	6.3
DP1243	12	43	12 7/16	43 5/16	3.7	6.9
DP1247	12	47	12 7/16	47 5/16	4.0	7.5
DP1251	12	51	12 7/16	51 5/16	4.4	8.0
DP1253	12	53	12 7/16	53 5/16	4.6	8.3
DP1255	12	55	12 7/16	55 5/16	4.7	8.6
DP1259	12	59	12 7/16	59 5/16	5.1	9.1
DP1263	12	63	12 7/16	63 5/16	5.4	9.7
DP1267	12	67	12 7/16	67 5/16	5.8	10.2
DP1271	12	71	12 7/16	71 5/16	6.1	10.8
DP1427	14	27	14 7/16	27 5/16	2.7	5.1
DP1431	14	31	14 7/16	31 5/16	3.1	5.8
DP1435	14	35	14 7/16	35 5/16	3.5	6.4
DP1439	14	39	14 7/16	39 5/16	3.9	7.0
DP1443	14	43	14 7/16	43 5/16	4.3	7.6
DP1447	14	47	14 7/16	47 5/16	4.7	8.2
DP1451	14	51	14 7/16	51 5/16	5.1	8.8
DP1453	14	53	14 7/16	53 5/16	5.3	9.1
DP1455	14	55	14 7/16	55 5/16	5.5	9.4
DP1459	14	59	14 7/16	59 5/16	5.9	10.0
DP1463	14	63	14 7/16	63 5/16	6.3	10.6
DP1467	14	67	14 7/16	67 5/16	6.7	11.3
DP1471	14	71	14 7/16	71 5/16	7.1	11.9
DP1627	16	27	16 7/16	27 5/16	3.1	5.6
DP1631	16	31	16 7/16	31 5/16	3.5	6.3
DP1635	16	35	16 7/16	35 5/16	4.0	7.0
DP1639	16	39	16 7/16	39 5/16	4.4	7.6
DP1643	16	43	16 7/16	43 5/16	4.9	8.3
DP1647	16	47	16 7/16	47 5/16	5.4	9.0
DP1651	16	51	16 7/16	51 5/16	5.8	9.6
DP1653	16	53	16 7/16	53 5/16	6.0	10.0
DP1655	16	55	16 7/16	55 5/16	6.3	10.3
DP1659	16	59	16 7/16	59 5/16	6.7	11.0
DP1663	16	63	16 7/16	63 5/16	7.2	11.6
DP1667	16	67	16 7/16	67 5/16	7.6	12.3
DP1671	16	71	16 7/16	71 5/16	8.1	13.0

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP1827	18	27	18 7/16	27 5/16	3.5	6.1
DP1831	18	31	18 7/16	31 5/16	4.0	6.8
DP1835	18	35	18 7/16	35 5/16	4.5	7.5
DP1839	18	39	18 7/16	39 5/16	5.0	8.3
DP1843	18	43	18 7/16	43 5/16	5.5	9.0
DP1847	18	47	18 7/16	47 5/16	6.0	9.7
DP1851	18	51	18 7/16	51 5/16	6.5	10.4
DP1853	18	53	18 7/16	53 5/16	6.8	10.8
DP1855	18	55	18 7/16	55 5/16	7.0	11.1
DP1859	18	59	18 7/16	59 5/16	7.6	11.9
DP1863	18	63	18 7/16	63 5/16	8.1	12.6
DP1867	18	67	18 7/16	67 5/16	8.6	13.3
DP1871	18	71	18 7/16	71 5/16	9.1	14.0
DP2027	20	27	20 7/16	27 5/16	3.8	6.6
DP2031	20	31	20 7/16	31 5/16	4.4	7.3
DP2035	20	35	20 7/16	35 5/16	5.0	8.1
DP2039	20	39	20 7/16	39 5/16	5.5	8.9
DP2043	20	43	20 7/16	43 5/16	6.1	9.7
DP2047	20	47	20 7/16	47 5/16	6.7	10.5
DP2051	20	51	20 7/16	51 5/16	7.2	11.2
DP2053	20	53	20 7/16	53 5/16	7.5	11.6
DP2055	20	55	20 7/16	55 5/16	7.8	12.0
DP2059	20	59	20 7/16	59 5/16	8.4	12.8
DP2063	20	63	20 7/16	63 5/16	8.9	13.6
DP2067	20	67	20 7/16	67 5/16	9.5	14.3
DP2071	20	71	20 7/16	71 5/16	10.1	15.1
DP2227	22	27	22 7/16	27 5/16	4.2	7.0
DP2231	22	31	22 7/16	31 5/16	4.8	7.9
DP2235	22	35	22 7/16	35 5/16	5.5	8.7
DP2239	22	39	22 7/16	39 5/16	6.1	9.5
DP2243	22	43	22 7/16	43 5/16	6.7	10.4
DP2247	22	47	22 7/16	47 5/16	7.3	11.2
DP2251	22	51	22 7/16	51 5/16	8.0	12.0
DP2253	22	53	22 7/16	53 5/16	8.3	12.5
DP2255	22	55	22 7/16	55 5/16	8.6	12.9
DP2259	22	59	22 7/16	59 5/16	9.2	13.7
DP2263	22	63	22 7/16	63 5/16	9.8	14.5
DP2267	22	67	22 7/16	67 5/16	10.4	15.4
DP2271	22	71	22 7/16	71 5/16	11.1	16.2

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP2427	24	27	24 7/16	27 5/16	4.6	7.5
DP2431	24	31	24 7/16	31 5/16	5.3	8.4
DP2435	24	35	24 7/16	35 5/16	6.0	9.3
DP2439	24	39	24 7/16	39 5/16	6.6	10.2
DP2443	24	43	24 7/16	43 5/16	7.3	11.1
DP2447	24	47	24 7/16	47 5/16	8.0	12.0
DP2451	24	51	24 7/16	51 5/16	8.7	12.8
DP2453	24	53	24 7/16	53 5/16	9.0	13.3
DP2455	24	55	24 7/16	55 5/16	9.3	13.7
DP2459	24	59	24 7/16	59 5/16	10.0	14.6
DP2463	24	63	24 7/16	63 5/16	10.7	15.5
DP2467	24	67	24 7/16	67 5/16	11.4	16.4
DP2471	24	71	24 7/16	71 5/16	12.1	17.3
DP2627	26	27	26 7/16	27 5/16	5.0	8.0
DP2631	26	31	26 7/16	31 5/16	5.7	8.9
DP2635	26	35	26 7/16	35 5/16	6.4	9.9
DP2639	26	39	26 7/16	39 5/16	7.2	10.8
DP2643	26	43	26 7/16	43 5/16	7.9	11.8
DP2647	26	47	26 7/16	47 5/16	8.6	12.7
DP2651	26	51	26 7/16	51 5/16	9.4	13.6
DP2653	26	53	26 7/16	53 5/16	9.7	14.1
DP2655	26	55	26 7/16	55 5/16	10.1	14.6
DP2659	26	59	26 7/16	59 5/16	10.9	15.5
DP2663	26	63	26 7/16	63 5/16	11.6	16.5
DP2667	26	67	26 7/16	67 5/16	12.3	17.4
DP2671	26	71	26 7/16	71 5/16	13.1	18.4
DP2827	28	27	28 7/16	27 5/16	5.4	8.5
DP2831	28	31	28 7/16	31 5/16	6.1	9.5
DP2835	28	35	28 7/16	35 5/16	6.9	10.5
DP2839	28	39	28 7/16	39 5/16	7.7	11.5
DP2843	28	43	28 7/16	43 5/16	8.5	12.5
DP2847	28	47	28 7/16	47 5/16	9.3	13.5
DP2851	28	51	28 7/16	51 5/16	10.1	14.5
DP2853	28	53	28 7/16	53 5/16	10.5	15.0
DP2855	28	55	28 7/16	55 5/16	10.9	15.5
DP2859	28	59	28 7/16	59 5/16	11.7	16.5
DP2863	28	63	28 7/16	63 5/16	12.5	17.5
DP2867	28	67	28 7/16	67 5/16	13.3	18.5
DP2871	28	71	28 7/16	71 5/16	14.0	19.5

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP3027	30	27	30 7/16	27 5/16	5.7	8.9
DP3031	30	31	30 7/16	31 5/16	6.6	10.0
DP3035	30	35	30 7/16	35 5/16	7.4	11.0
DP3039	30	39	30 7/16	39 5/16	8.3	12.1
DP3043	30	43	30 7/16	43 5/16	9.1	13.1
DP3047	30	47	30 7/16	47 5/16	10.0	14.2
DP3051	30	51	30 7/16	51 5/16	10.8	15.3
DP3053	30	53	30 7/16	53 5/16	11.2	15.8
DP3055	30	55	30 7/16	55 5/16	11.7	16.3
DP3059	30	59	30 7/16	59 5/16	12.5	17.4
DP3063	30	63	30 7/16	63 5/16	13.3	18.4
DP3067	30	67	30 7/16	67 5/16	14.2	19.5
DP3071	30	71	30 7/16	71 5/16	15.0	20.5
DP3127	31	27	31 7/16	27 5/16	5.9	9.2
DP3131	31	31	31 7/16	31 5/16	6.8	10.2
DP3135	31	35	31 7/16	35 5/16	7.7	11.3
DP3139	31	39	31 7/16	39 5/16	8.5	12.4
DP3143	31	43	31 7/16	43 5/16	9.4	13.5
DP3147	31	47	31 7/16	47 5/16	10.3	14.6
DP3151	31	51	31 7/16	51 5/16	11.2	15.7
DP3153	31	53	31 7/16	53 5/16	11.6	16.2
DP3155	31	55	31 7/16	55 5/16	12.0	16.7
DP3159	31	59	31 7/16	59 5/16	12.9	17.8
DP3163	31	63	31 7/16	63 5/16	13.8	18.9
DP3167	31	67	31 7/16	67 5/16	14.7	20.0
DP3171	31	71	31 7/16	71 5/16	15.5	21.1
DP3227	32	27	32 7/16	27 5/16	6.1	9.4
DP3231	32	31	32 7/16	31 5/16	7.0	10.5
DP3235	32	35	32 7/16	35 5/16	7.9	11.6
DP3239	32	39	32 7/16	39 5/16	8.8	12.7
DP3243	32	43	32 7/16	43 5/16	9.7	13.8
DP3247	32	47	32 7/16	47 5/16	10.6	15.0
DP3251	32	51	32 7/16	51 5/16	11.5	16.1
DP3253	32	53	32 7/16	53 5/16	12.0	16.6
DP3255	32	55	32 7/16	55 5/16	12.4	17.2
DP3259	32	59	32 7/16	59 5/16	13.3	18.3
DP3263	32	63	32 7/16	63 5/16	14.2	19.4
DP3267	32	67	32 7/16	67 5/16	15.1	20.5
DP3271	32	71	32 7/16	71 5/16	16.0	21.6

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP3427	34	27	34 7/16	27 5/16	6.5	9.9
DP3431	34	31	34 7/16	31 5/16	7.4	11.0
DP3435	34	35	34 7/16	35 5/16	8.4	12.2
DP3439	34	39	34 7/16	39 5/16	9.4	13.4
DP3443	34	43	34 7/16	43 5/16	10.3	14.5
DP3447	34	47	34 7/16	47 5/16	11.3	15.7
DP3451	34	51	34 7/16	51 5/16	12.2	16.9
DP3453	34	53	34 7/16	53 5/16	12.7	17.5
DP3455	34	55	34 7/16	55 5/16	13.2	18.0
DP3459	34	59	34 7/16	59 5/16	14.1	19.2
DP3463	34	63	34 7/16	63 5/16	15.1	20.4
DP3467	34	67	34 7/16	67 5/16	16.1	21.5
DP3471	34	71	34 7/16	71 5/16	17.0	22.7
DP3627	36	27	36 7/16	27 5/16	6.9	10.3
DP3631	36	31	36 7/16	31 5/16	7.9	11.6
DP3635	36	35	36 7/16	35 5/16	8.9	12.8
DP3639	36	39	36 7/16	39 5/16	9.9	14.0
DP3643	36	43	36 7/16	43 5/16	10.9	15.2
DP3647	36	47	36 7/16	47 5/16	11.9	16.5
DP3651	36	51	36 7/16	51 5/16	12.9	17.7
DP3653	36	53	36 7/16	53 5/16	13.5	18.3
DP3655	36	55	36 7/16	55 5/16	14.0	18.9
DP3659	36	59	36 7/16	59 5/16	15.0	20.1
DP3663	36	63	36 7/16	63 5/16	16.0	21.3
DP3667	36	67	36 7/16	67 5/16	17.0	22.6
DP3671	36	71	36 7/16	71 5/16	18.0	23.8
DP3827	38	27	38 7/16	27 5/16	7.2	10.8
DP3831	38	31	38 7/16	31 5/16	8.3	12.1
DP3835	38	35	38 7/16	35 5/16	9.4	13.4
DP3839	38	39	38 7/16	39 5/16	10.5	14.6
DP3843	38	43	38 7/16	43 5/16	11.5	15.9
DP3847	38	47	38 7/16	47 5/16	12.6	17.2
DP3851	38	51	38 7/16	51 5/16	13.7	18.5
DP3853	38	53	38 7/16	53 5/16	14.2	19.1
DP3855	38	55	38 7/16	55 5/16	14.7	19.8
DP3859	38	59	38 7/16	59 5/16	15.8	21.0
DP3863	38	63	38 7/16	63 5/16	16.9	22.3
DP3867	38	67	38 7/16	67 5/16	17.9	23.6
DP3871	38	71	38 7/16	71 5/16	19.0	24.9

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP4027	40	27	40 7/16	27 5/16	7.6	11.3
DP4031	40	31	40 7/16	31 5/16	8.8	12.6
DP4035	40	35	40 7/16	35 5/16	9.9	14.0
DP4039	40	39	40 7/16	39 5/16	11.0	15.3
DP4043	40	43	40 7/16	43 5/16	12.1	16.6
DP4047	40	47	40 7/16	47 5/16	13.2	18.0
DP4051	40	51	40 7/16	51 5/16	14.4	19.3
DP4053	40	53	40 7/16	53 5/16	14.9	20.0
DP4055	40	55	40 7/16	55 5/16	15.5	20.6
DP4059	40	59	40 7/16	59 5/16	16.6	22.0
DP4063	40	63	40 7/16	63 5/16	17.7	23.3
DP4067	40	67	40 7/16	67 5/16	18.9	24.6
DP4071	40	71	40 7/16	71 5/16	20.0	26.0
DP4227	42	27	42 7/16	27 5/16	8.0	11.8
DP4231	42	31	42 7/16	31 5/16	9.2	13.1
DP4235	42	35	42 7/16	35 5/16	10.4	14.5
DP4239	42	39	42 7/16	39 5/16	11.5	15.9
DP4243	42	43	42 7/16	43 5/16	12.7	17.3
DP4247	42	47	42 7/16	47 5/16	13.9	18.7
DP4251	42	51	42 7/16	51 5/16	15.1	20.1
DP4253	42	53	42 7/16	53 5/16	15.7	20.8
DP4255	42	55	42 7/16	55 5/16	16.3	21.5
DP4259	42	59	42 7/16	59 5/16	17.4	22.9
DP4263	42	63	42 7/16	63 5/16	18.6	24.3
DP4267	42	67	42 7/16	67 5/16	19.8	25.6
DP4271	42	71	42 7/16	71 5/16	21.0	27.0
DP4427	44	27	44 7/16	27 5/16	8.4	12.2
DP4431	44	31	44 7/16	31 5/16	9.6	13.7
DP4435	44	35	44 7/16	35 5/16	10.9	15.1
DP4439	44	39	44 7/16	39 5/16	12.1	16.6
DP4443	44	43	44 7/16	43 5/16	13.3	18.0
DP4447	44	47	44 7/16	47 5/16	14.6	19.5
DP4451	44	51	44 7/16	51 5/16	15.8	20.9
DP4453	44	53	44 7/16	53 5/16	16.4	21.6
DP4455	44	55	44 7/16	55 5/16	17.0	22.3
DP4459	44	59	44 7/16	59 5/16	18.3	23.8
DP4463	44	63	44 7/16	63 5/16	19.5	25.2
DP4467	44	67	44 7/16	67 5/16	20.7	26.7
DP4471	44	71	44 7/16	71 5/16	22.0	28.1

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP4627	46	27	46 7/16	27 5/16	8.8	12.7
DP4631	46	31	46 7/16	31 5/16	10.1	14.2
DP4635	46	35	46 7/16	35 5/16	11.3	15.7
DP4639	46	39	46 7/16	39 5/16	12.6	17.2
DP4643	46	43	46 7/16	43 5/16	13.9	18.7
DP4647	46	47	46 7/16	47 5/16	15.2	20.2
DP4651	46	51	46 7/16	51 5/16	16.5	21.7
DP4653	46	53	46 7/16	53 5/16	17.2	22.5
DP4655	46	55	46 7/16	55 5/16	17.8	23.2
DP4659	46	59	46 7/16	59 5/16	19.1	24.7
DP4663	46	63	46 7/16	63 5/16	20.4	26.2
DP4667	46	67	46 7/16	67 5/16	21.7	27.7
DP4671	46	71	46 7/16	71 5/16	23.0	29.2
DP4827	48	27	48 7/16	27 5/16	9.1	13.2
DP4831	48	31	48 7/16	31 5/16	10.5	14.7
DP4835	48	35	48 7/16	35 5/16	11.8	16.3
DP4839	48	39	48 7/16	39 5/16	13.2	17.8
DP4843	48	43	48 7/16	43 5/16	14.5	19.4
DP4847	48	47	48 7/16	47 5/16	15.9	21.0
DP4851	48	51	48 7/16	51 5/16	17.2	22.5
DP4853	48	53	48 7/16	53 5/16	17.9	23.3
DP4855	48	55	48 7/16	55 5/16	18.6	24.1
DP4859	48	59	48 7/16	59 5/16	19.9	25.6
DP4863	48	63	48 7/16	63 5/16	21.3	27.2
DP4867	48	67	48 7/16	67 5/16	22.6	28.7
DP4871	48	71	48 7/16	71 5/16	24.0	30.3
DP5027	50	27	50 7/16	27 5/16	9.5	13.6
DP5031	50	31	50 7/16	31 5/16	10.9	15.3
DP5035	50	35	50 7/16	35 5/16	12.3	16.9
DP5039	50	39	50 7/16	39 5/16	13.7	18.5
DP5043	50	43	50 7/16	43 5/16	15.1	20.1
DP5047	50	47	50 7/16	47 5/16	16.5	21.7
DP5051	50	51	50 7/16	51 5/16	17.9	23.3
DP5053	50	53	50 7/16	53 5/16	18.6	24.1
DP5055	50	55	50 7/16	55 5/16	19.3	24.9
DP5059	50	59	50 7/16	59 5/16	20.7	26.5
DP5063	50	63	50 7/16	63 5/16	22.1	28.1
DP5067	50	67	50 7/16	67 5/16	23.5	29.8
DP5071	50	71	50 7/16	71 5/16	24.9	31.4

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP5227	52	27	52 7/16	27 5/16	9.9	14.1
DP5231	52	31	52 7/16	31 5/16	11.4	15.8
DP5235	52	35	52 7/16	35 5/16	12.8	17.5
DP5239	52	39	52 7/16	39 5/16	14.3	19.1
DP5243	52	43	52 7/16	43 5/16	15.7	20.8
DP5247	52	47	52 7/16	47 5/16	17.2	22.5
DP5251	52	51	52 7/16	51 5/16	18.6	24.1
DP5253	52	53	52 7/16	53 5/16	19.4	25.0
DP5255	52	55	52 7/16	55 5/16	20.1	25.8
DP5259	52	59	52 7/16	59 5/16	21.6	27.5
DP5263	52	63	52 7/16	63 5/16	23.0	29.1
DP5267	52	67	52 7/16	67 5/16	24.5	30.8
DP5271	52	71	52 7/16	71 5/16	25.9	32.5
DP5427	54	27	54 7/16	27 5/16	10.3	14.6
DP5431	54	31	54 7/16	31 5/16	11.8	16.3
DP5435	54	35	54 7/16	35 5/16	13.3	18.0
DP5439	54	39	54 7/16	39 5/16	14.8	19.8
DP5443	54	43	54 7/16	43 5/16	16.3	21.5
DP5447	54	47	54 7/16	47 5/16	17.8	23.2
DP5451	54	51	54 7/16	51 5/16	19.4	24.9
DP5453	54	53	54 7/16	53 5/16	20.1	25.8
DP5455	54	55	54 7/16	55 5/16	20.9	26.6
DP5459	54	59	54 7/16	59 5/16	22.4	28.4
DP5463	54	63	54 7/16	63 5/16	23.9	30.1
DP5467	54	67	54 7/16	67 5/16	25.4	31.8
DP5471	54	71	54 7/16	71 5/16	26.9	33.5
DP5627	56	27	56 7/16	27 5/16	10.7	15.1
DP5631	56	31	56 7/16	31 5/16	12.2	16.8
DP5635	56	35	56 7/16	35 5/16	13.8	18.6
DP5639	56	39	56 7/16	39 5/16	15.4	20.4
DP5643	56	43	56 7/16	43 5/16	16.9	22.2
DP5647	56	47	56 7/16	47 5/16	18.5	24.0
DP5651	56	51	56 7/16	51 5/16	20.1	25.7
DP5653	56	53	56 7/16	53 5/16	20.9	26.6
DP5655	56	55	56 7/16	55 5/16	21.6	27.5
DP5659	56	59	56 7/16	59 5/16	23.2	29.3
DP5663	56	63	56 7/16	63 5/16	24.8	31.1
DP5667	56	67	56 7/16	67 5/16	26.3	32.8
DP5671	56	71	56 7/16	71 5/16	27.9	34.6

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
DP6027	60	27	60 7/16	27 5/16	11.4	16.0
DP6031	60	31	60 7/16	31 5/16	13.1	17.9
DP6035	60	35	60 7/16	35 5/16	14.8	19.8
DP6039	60	39	60 7/16	39 5/16	16.5	21.7
DP6043	60	43	60 7/16	43 5/16	18.1	23.6
DP6047	60	47	60 7/16	47 5/16	19.8	25.5
DP6051	60	51	60 7/16	51 5/16	21.5	27.3
DP6053	60	53	60 7/16	53 5/16	22.3	28.3
DP6055	60	55	60 7/16	55 5/16	23.2	29.2
DP6059	60	59	60 7/16	59 5/16	24.9	31.1
DP6063	60	63	60 7/16	63 5/16	26.5	33.0
DP6067	60	67	60 7/16	67 5/16	28.2	34.9
DP6227	62	27	62 7/16	27 5/16	11.8	16.5
DP6231	62	31	62 7/16	31 5/16	13.5	18.4
DP6235	62	35	62 7/16	35 5/16	15.3	20.4
DP6239	62	39	62 7/16	39 5/16	17.0	22.3
DP6243	62	43	62 7/16	43 5/16	18.7	24.3
DP6247	62	47	62 7/16	47 5/16	20.5	26.2
DP6251	62	51	62 7/16	51 5/16	22.2	28.1
DP6253	62	53	62 7/16	53 5/16	23.1	29.1
DP6255	62	55	62 7/16	55 5/16	23.9	30.1
DP6259	62	59	62 7/16	59 5/16	25.7	32.0
DP6263	62	63	62 7/16	63 5/16	27.4	34.0
DP6427	64	27	64 7/16	27 5/16	12.2	17.0
DP6431	64	31	64 7/16	31 5/16	14.0	19.0
DP6435	64	35	64 7/16	35 5/16	15.8	21.0
DP6439	64	39	64 7/16	39 5/16	17.6	23.0
DP6443	64	43	64 7/16	43 5/16	19.3	25.0
DP6447	64	47	64 7/16	47 5/16	21.1	27.0
DP6451	64	51	64 7/16	51 5/16	22.9	29.0
DP6453	64	53	64 7/16	53 5/16	23.8	30.0
DP6455	64	55	64 7/16	55 5/16	24.7	31.0
DP6459	64	59	64 7/16	59 5/16	26.5	33.0
DP6463	64	63	64 7/16	63 5/16	28.3	35.0

### Double Hung Direct Set

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E (Cardinal 270)	0.28	0.28	0.51	57	Yes	-	-	-	-
Dual Pane Clear	0.41	0.58	0.60	44	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E Tempered (Cardinal 270)	0.28	0.28	0.51	56	Yes	-	-	-	-
Dual Pane Clear Tempered	0.41	0.58	0.60	44	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.25	0.46	0.56	61	Yes	N	-	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.25	0.46	0.56	61	Yes	N	-	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.20	0.25	0.47	70	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.18	0.23	0.40	75	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.21	0.25	0.47	66	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.17	0.23	0.40	72	Yes	N	NC	SC	S
Triple Pane E7 (Cardinal 270)	0.20	0.25	0.47	70	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 270)	0.21	0.25	0.47	66	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 180)	0.22	0.39	0.47	65	Yes	N	NC	-	-

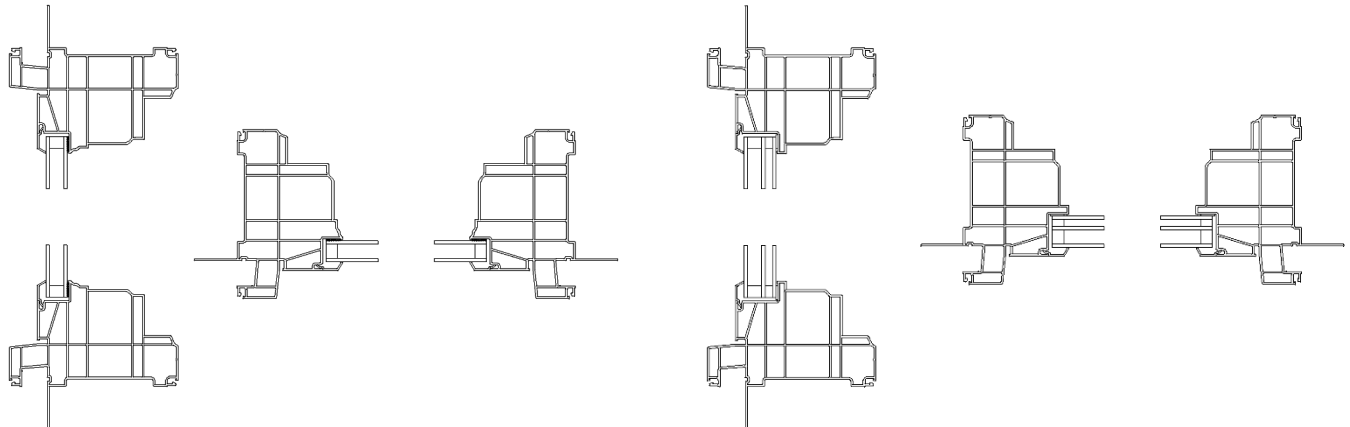
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.









































































### Double Hung Direct Set Window Structural Performance

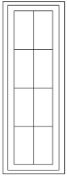








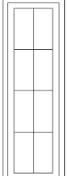




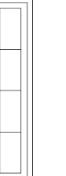



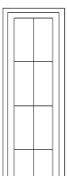
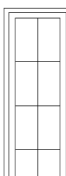
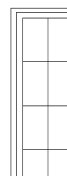
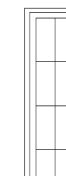

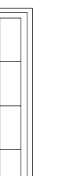
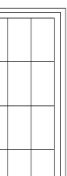
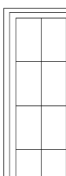

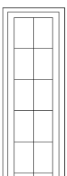
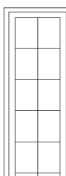
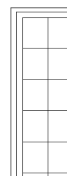
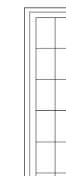

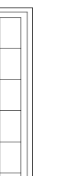
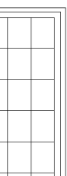
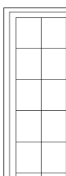

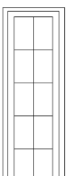
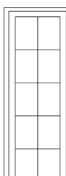
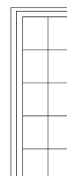
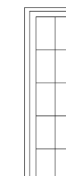

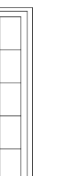
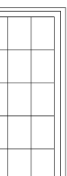


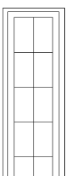

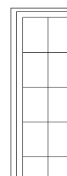


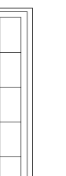
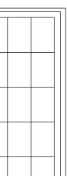


Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Double Hung Direct Set (Dual Pane)	60 x 60	Single	PG65	CW
Double Hung Direct Set (Dual Pane)	72 x 72	Single	PG50	LC
Double Hung Direct Set (Dual Pane)	72 x 84	Single	PG50	LC
Double Hung Direct Set (Dual Pane)	36 x 82	Single	PG75	LC
Double Hung Direct Set (Triple Pane)	60 x 60	Single	PG70	LC
Double Hung Direct Set (Triple Pane)	72 x 72	Single	PG60	LC
Double Hung Direct Set (Triple Pane)	36 x 82	Single	PG80	LC

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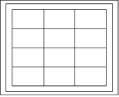
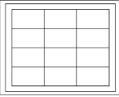
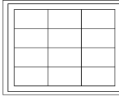
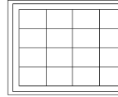
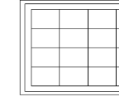
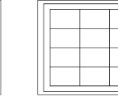
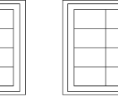
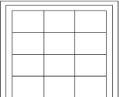
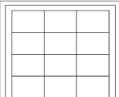
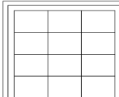
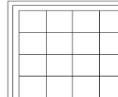
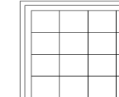
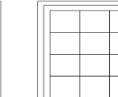
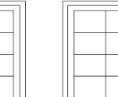
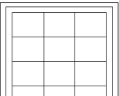
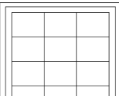
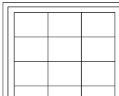
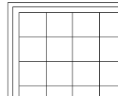
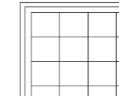
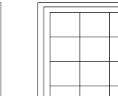
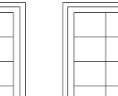
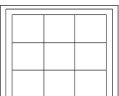
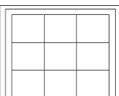
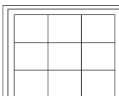
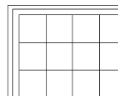
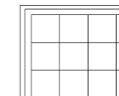
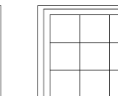
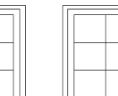
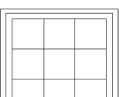
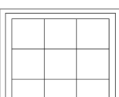
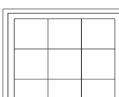
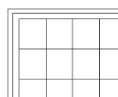
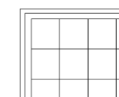
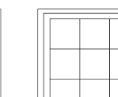

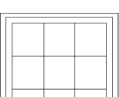
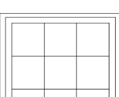
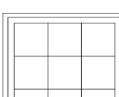
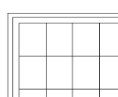
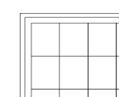
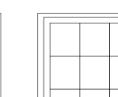

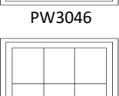
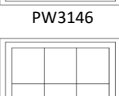
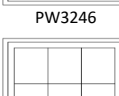
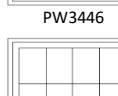



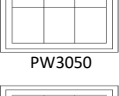
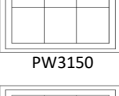
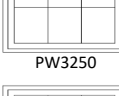
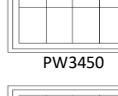
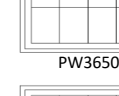




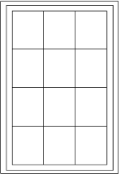
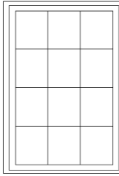
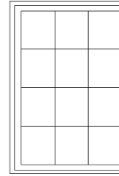
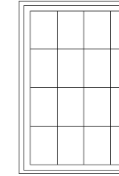
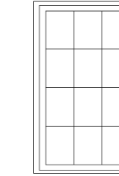
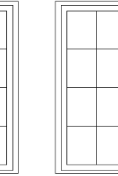
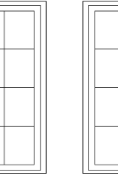
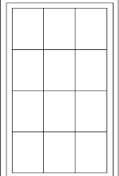
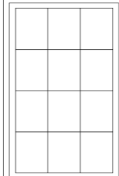
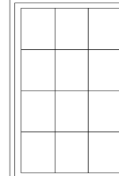
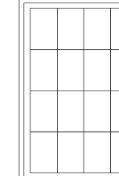
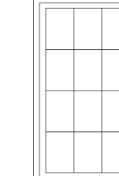

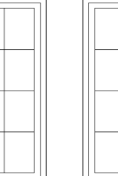
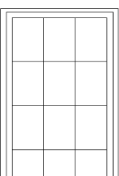
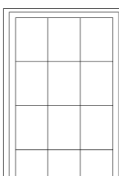
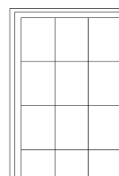
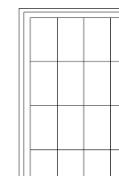
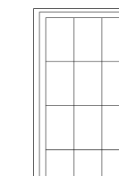

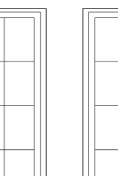
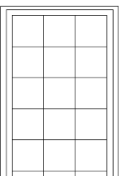
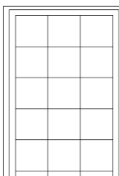
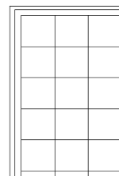
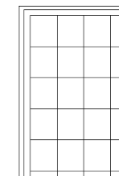
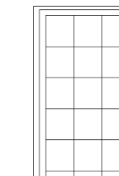
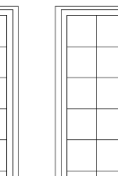
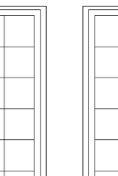
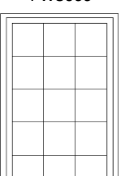
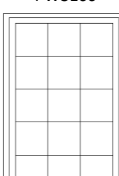
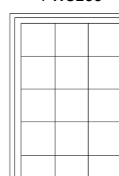
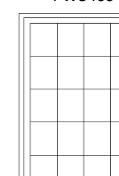
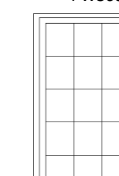

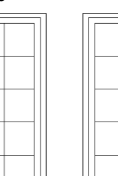
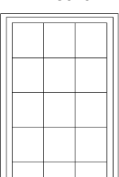
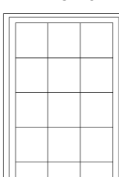
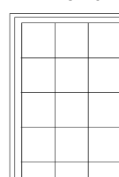
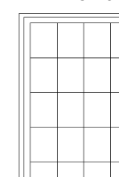
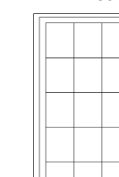
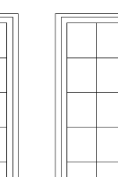
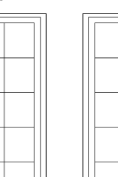
For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2		
Frame Size	20	22	24	26	28	30	32	34	36		
Call Size	12	14	16	18	20	22	24	26	28		
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42 1/2	42	34	 PW1234	 PW1434	 PW1634	 PW1834	 PW2034	 PW2234	 PW2434	 PW2634	 PW2834
46 1/2	46	38	 PW1238	 PW1438	 PW1638	 PW1838	 PW2038	 PW2238	 PW2438	 PW2638	 PW2838
50 1/2	50	42	 PW1242	 PW1442	 PW1642	 PW1842	 PW2042	 PW2242	 PW2442	 PW2642	 PW2842
54 1/2	54	46	 PW1246	 PW1446	 PW1646	 PW1846	 PW2046	 PW2246	 PW2446	 PW2646	 PW2846
58 1/2	58	50	 PW1250	 PW1450	 PW1650	 PW1850	 PW2050	 PW2250	 PW2450	 PW2650	 PW2850
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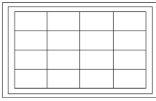
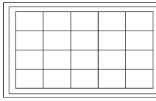
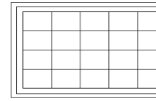
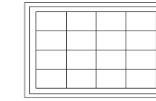
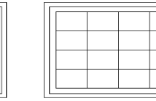
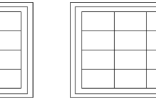
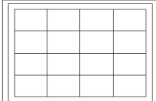
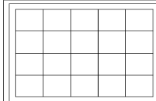
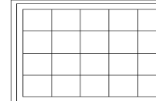
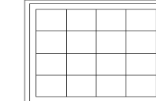
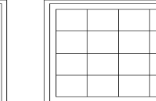

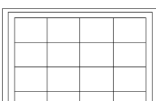
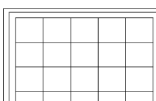
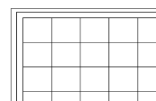
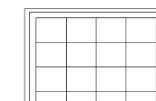
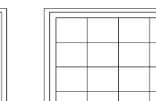

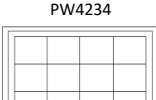
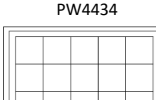
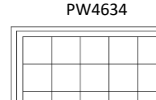
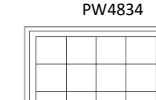


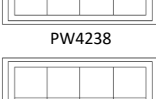
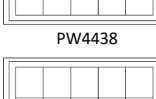
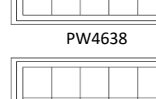
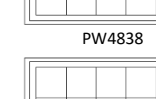


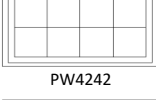
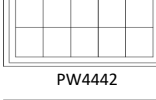
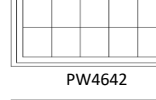
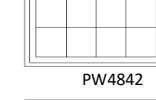


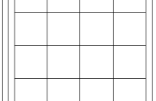
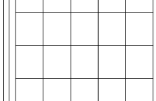
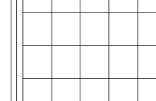
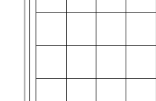
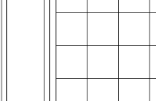
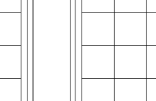
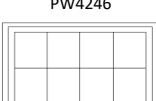
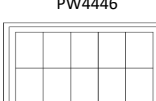
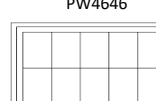



Rough Opening	20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2		
Frame Size	20	22	24	26	28	30	32	34	36		
Call Size	12	14	16	18	20	22	24	26	28		
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			PW1254	PW1454	PW1654	PW1854	PW2054	PW2254	PW2454	PW2654	PW2854
66 1/2	66	58									
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70 1/2	70	62									
			PW1262	PW1462	PW1662	PW1862	PW2062	PW2262	PW2462	PW2662	PW2862
74 1/2	74	66									
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78 1/2	78	70									
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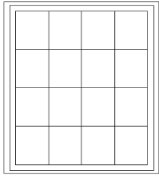
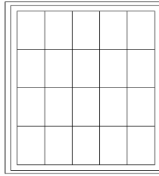
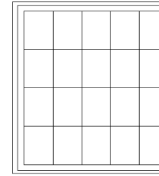
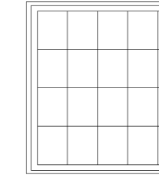
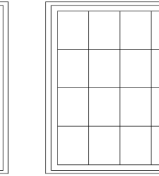
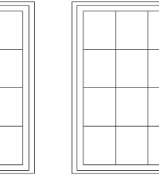
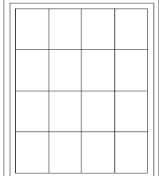
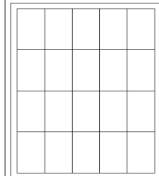
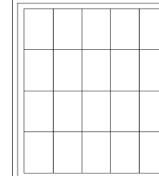
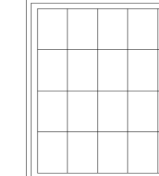
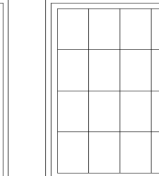
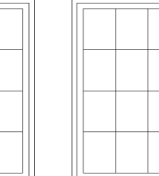
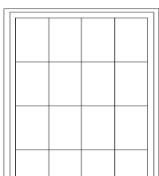
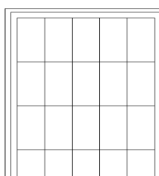
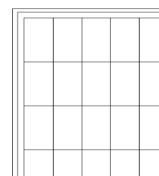
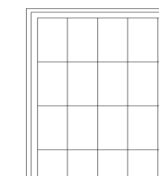
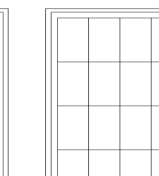
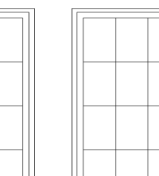
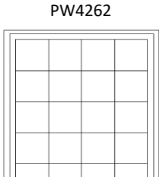
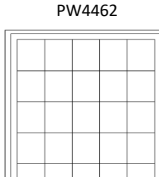
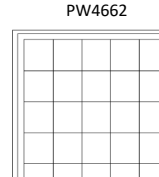
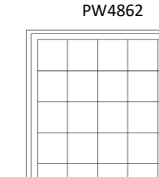
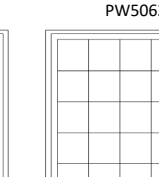

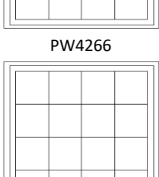
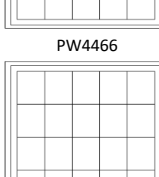
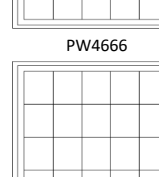
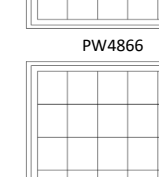



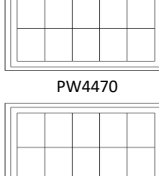
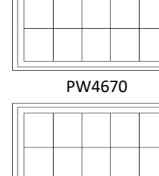
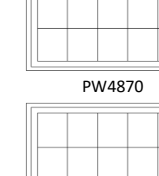


Maximum frame height for triple pane is 72"

Rough Opening	38 1/2	39 1/2	40 1/2	42 1/2	44 1/2	46 1/2	48 1/2
Frame Size	38	39	40	42	44	46	48
Call Size	30	31	32	34	36	38	40
34 1/2	34 26  PW3026	31  PW3126	32  PW3226	34  PW3426	36  PW3626	38  PW3826	40  PW4026
38 1/2	38 30  PW3030	31  PW3130	32  PW3230	34  PW3430	36  PW3630	38  PW3830	40  PW4030
42 1/2	42 34  PW3034	31  PW3134	32  PW3234	34  PW3434	36  PW3634	38  PW3834	40  PW4034
46 1/2	46 38  PW3038	31  PW3138	32  PW3238	34  PW3438	36  PW3638	38  PW3838	40  PW4038
50 1/2	50 42  PW3042	31  PW3142	32  PW3242	34  PW3442	36  PW3642	38  PW3842	40  PW4042
54 1/2	54 46  PW3046	31  PW3146	32  PW3246	34  PW3446	36  PW3646	38  PW3846	40  PW4046
58 1/2	58 50  PW3050	31  PW3150	32  PW3250	34  PW3450	36  PW3650	38  PW3850	40  PW4050
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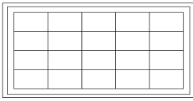
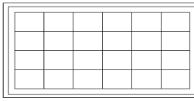
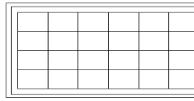
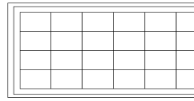
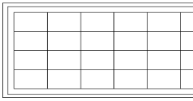
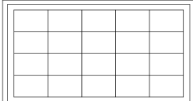
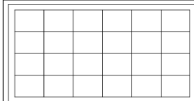
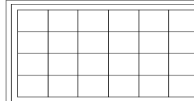
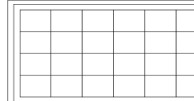
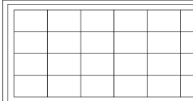
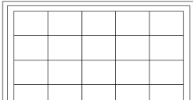
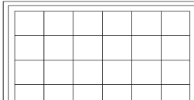
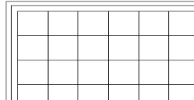
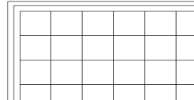
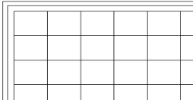
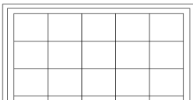
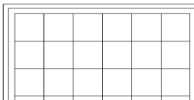
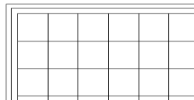
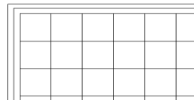
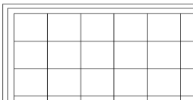
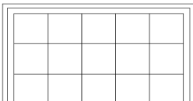
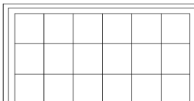
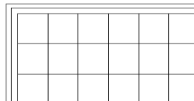
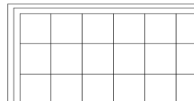
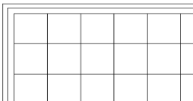
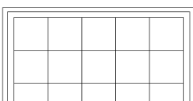
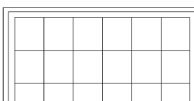
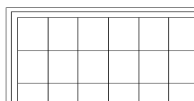
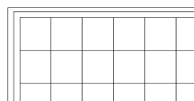
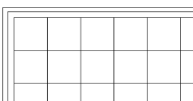
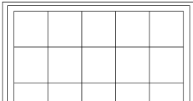
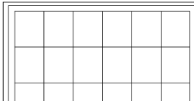
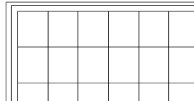
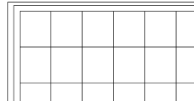
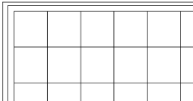
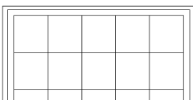
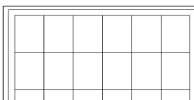
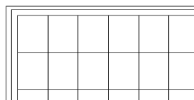
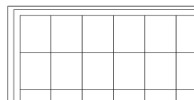
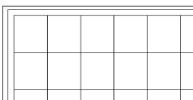
Rough Opening	38 1/2	39 1/2	40 1/2	42 1/2	44 1/2	46 1/2	48 1/2		
Frame Size	38	39	40	42	44	46	48		
Call Size	30	31	32	34	36	38	40		
62 1/2	62	54	 PW3054	 PW3154	 PW3254	 PW3454	 PW3654	 PW3854	 PW4054
66 1/2	66	58	 PW3058	 PW3158	 PW3258	 PW3458	 PW3658	 PW3858	 PW4058
70 1/2	70	62	 PW3062	 PW3162	 PW3262	 PW3462	 PW3662	 PW3862	 PW4062
74 1/2	74	66	 PW3066	 PW3166	 PW3266	 PW3466	 PW3666	 PW3866	 PW4066
78 1/2	78	70	 PW3070	 PW3170	 PW3270	 PW3470	 PW3670	 PW3870	 PW4070
82 1/2	82	74	 PW3074	 PW3174	 PW3274	 PW3474	 PW3674	 PW3874	 PW4074

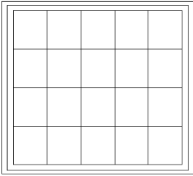
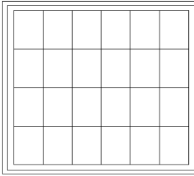
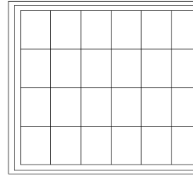
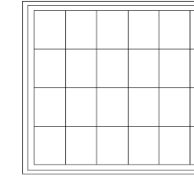
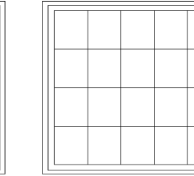
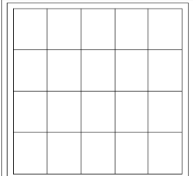
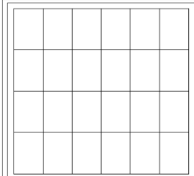
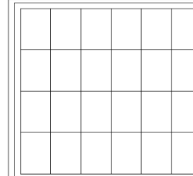
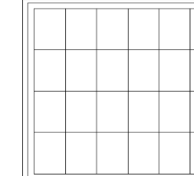
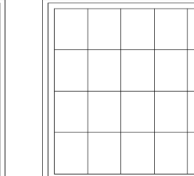
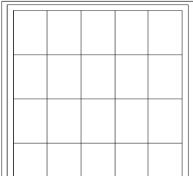
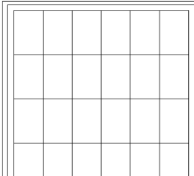
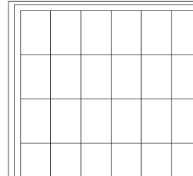
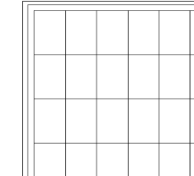
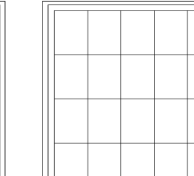
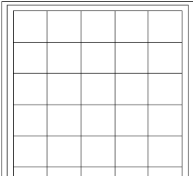
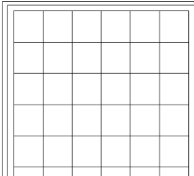
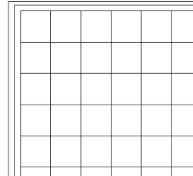
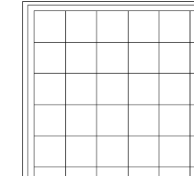
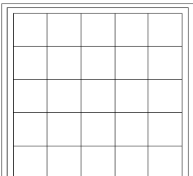
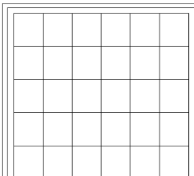
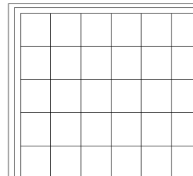
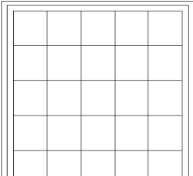
Maximum frame height for triple pane is 72"

Rough Opening	50 1/2	52 1/2	54 1/2	56 1/2	58 1/2	60 1/2
Frame Size	50	52	54	56	58	60
Call Size	42	44	46	48	50	52
34 1/2 34 26	 PW4226	 PW4426	 PW4626	 PW4826	 PW5026	 PW5226
38 1/2 38 30	 PW4230	 PW4430	 PW4630	 PW4830	 PW5030	 PW5230
42 1/2 42 34	 PW4234	 PW4434	 PW4634	 PW4834	 PW5034	 PW5234
46 1/2 46 38	 PW4238	 PW4438	 PW4638	 PW4838	 PW5038	 PW5238
50 1/2 50 42	 PW4242	 PW4442	 PW4642	 PW4842	 PW5042	 PW5242
54 1/2 54 46	 PW4246	 PW4446	 PW4646	 PW4846	 PW5046	 PW5246
58 1/2 58 50	 PW4250	 PW4450	 PW4650	 PW4850	 PW5050	 PW5250
60 1/2 60 52	 PW4252	 PW4452	 PW4652	 PW4852	 PW5052	 PW5252

Rough Opening		50 1/2	52 1/2	54 1/2	56 1/2	58 1/2	60 1/2	
Frame Size		50	52	54	56	58	60	
Call Size		42	44	46	48	50	52	
62 1/2	62	54						
			PW4254	PW4454	PW4654	PW4854	PW5054	PW5254
66 1/2	66	58						
			PW4258	PW4458	PW4658	PW4858	PW5058	PW5258
70 1/2	70	62						
			PW4262	PW4462	PW4662	PW4862	PW5062	PW5262
74 1/2	74	66						
			PW4266	PW4466	PW4666	PW4866	PW5066	PW5266
78 1/2	78	70						
			PW4270	PW4470	PW4670	PW4870	PW5070	PW5270
82 1/2	82	74						
			PW4274	PW4474	PW4674	PW4874	PW5074	PW5274

Maximum frame height for triple pane is 72"

Rough Opening	62 1/2	64 1/2	66 1/2	68 1/2	72 1/2
Frame Size	62	64	66	68	72
Call Size	54	56	58	60	64
34 1/2	34 26  PW5426	34 26  PW5626	34 26  PW5826	34 26  PW6026	34 26  PW6426
38 1/2	38 30  PW5430	38 30  PW5630	38 30  PW5830	38 30  PW6030	38 30  PW6430
42 1/2	42 34  PW5434	42 34  PW5634	42 34  PW5834	42 34  PW6034	42 34  PW6434
46 1/2	46 38  PW5438	46 38  PW5638	46 38  PW5838	46 38  PW6038	46 38  PW6438
50 1/2	50 42  PW5442	50 42  PW5642	50 42  PW5842	50 42  PW6042	50 42  PW6442
54 1/2	54 46  PW5446	54 46  PW5646	54 46  PW5846	54 46  PW6046	54 46  PW6446
58 1/2	58 50  PW5450	58 50  PW5650	58 50  PW5850	58 50  PW6050	58 50  PW6450
60 1/2	60 52  PW5452	60 52  PW5652	60 52  PW5852	60 52  PW6052	60 52  PW6452

Rough Opening	62 1/2	64 1/2	66 1/2	68 1/2	72 1/2
Frame Size	62	64	66	68	72
Call Size	54	56	58	60	64
62 1/2	62				
	54				
					
	PW5454	PW5654	PW5854	PW6054	PW6454
66 1/2		66			
		58			
					
	PW5458	PW5658	PW5858	PW6058	PW6458
70 1/2			70		
			62		
					
	PW5462	PW5662	PW5862	PW6062	PW6462
74 1/2				74	
				66	
					
	PW5466	PW5666	PW5866	PW6066	
78 1/2					78
					70
					
	PW5470	PW5670	PW5870		
82 1/2					
					82
					
	PW5474				

*Maximum frame height for triple pane is 72"*

Rough Opening			20 1/2	22 1/2	24 1/2	26 1/2	28 1/2	32 1/2	34 1/2
	Frame Size		20	22	24	26	28	32	34
		Call Size	12	14	16	18	20	24	26
34 1/2	34	26	PW1226	PW1426	PW1626	PW1826	PW2026	PW2426	PW2626
38 1/2	38	30	PW1230	PW1430	PW1630	PW1830	PW2030	PW2430	PW2630
42 1/2	42	34	PW1234	PW1434	PW1634	PW1834	PW2034	PW2434	PW2634
46 1/2	46	38	PW1238	PW1438	PW1638	PW1838	PW2038	PW2438	PW2638
50 1/2	50	42	PW1242	PW1442	PW1642	PW1842	PW2042	PW2442	PW2642
54 1/2	54	46	PW1246	PW1446	PW1646	PW1846	PW2046	PW2446	PW2646
58 1/2	58	50	PW1250	PW1450	PW1650	PW1850	PW2050	PW2450	PW2650
60 1/2	60	52	PW1252	PW1452	PW1652	PW1852	PW2052	PW2452	PW2652
62 1/2	62	54	PW1254	PW1454	PW1654	PW1854	PW2054	PW2454	PW2654
66 1/2	66	58	PW1258	PW1458	PW1658	PW1858	PW2058	PW2458	PW2658
70 1/2	70	62	PW1262	PW1462	PW1662	PW1862	PW2062	PW2462	PW2662
74 1/2	74	66	PW1266	PW1466	PW1666	PW1866	PW2066	PW2466	PW2666
78 1/2	78	70	PW1270	PW1470	PW1670	PW1870	PW2070	PW2470	PW2670
82 1/2	82	74	PW1274	PW1474	PW1674	PW1874	PW2074	PW2474	PW2674

Maximum frame height for triple pane is 72"

Rough Opening			36 1/2	38 1/2	39 1/2	40 1/2	42 1/2	44 1/2	46 1/2
	Frame Size		36	38	39	40	42	44	46
		Call Size	28	30	31	32	34	36	38
34 1/2	34	26	PW2826	PW3026	PW3126	PW3226	PW3426	PW3626	PW3826
38 1/2	38	30	PW2830	PW3030	PW3130	PW3230	PW3430	PW3630	PW3830
42 1/2	42	34	PW2834	PW3034	PW3134	PW3234	PW3434	PW3634	PW3834
46 1/2	46	38	PW2838	PW3038	PW3138	PW3238	PW3438	PW3638	PW3838
50 1/2	50	42	PW2842	PW3042	PW3142	PW3242	PW3442	PW3642	PW3842
54 1/2	54	46	PW2846	PW3046	PW3146	PW3246	PW3446	PW3646	PW3846
58 1/2	58	50	PW2850	PW3050	PW3150	PW3250	PW3450	PW3650	PW3850
60 1/2	60	52	PW2852	PW3052	PW3152	PW3252	PW3452	PW3652	PW3852
62 1/2	62	54	PW2854	PW3054	PW3154	PW3254	PW3454	PW3654	PW3854
66 1/2	66	58	PW2858	PW3058	PW3158	PW3258	PW3458	PW3658	PW3858
70 1/2	70	62	PW2862	PW3062	PW3162	PW3262	PW3462	PW3662	PW3862
74 1/2	74	66	PW2866	PW3066	PW3166	PW3266	PW3466	PW3666	PW3866
78 1/2	78	70	PW2870	PW3070	PW3170	PW3270	PW3470	PW3670	PW3870
82 1/2	82	74	PW2874	PW3074	PW3174	PW3274	PW3474	PW3674	PW3874

Maximum frame height for triple pane is 72"

Rough Opening			48 1/2	50 1/2	52 1/2	54 1/2	56 1/2	58 1/2	60 1/2
	Frame Size		48	50	52	54	56	58	60
		Call Size	40	42	44	46	48	50	52
34 1/2	34	26	PW4026	PW4226	PW4426	PW4626	PW4826	PW5026	PW5226
38 1/2	38	30	PW4030	PW4230	PW4430	PW4630	PW4830	PW5030	PW5230
42 1/2	42	34	PW4034	PW4234	PW4434	PW4634	PW4834	PW5034	PW5234
46 1/2	46	38	PW4038	PW4238	PW4438	PW4638	PW4838	PW5038	PW5238
50 1/2	50	42	PW4042	PW4242	PW4442	PW4642	PW4842	PW5042	PW5242
54 1/2	54	46	PW4046	PW4246	PW4446	PW4646	PW4846	PW5046	PW5246
58 1/2	58	50	PW4050	PW4250	PW4450	PW4650	PW4850	PW5050	PW5250
60 1/2	60	52	PW4052	PW4252	PW4452	PW4652	PW4852	PW5052	PW5252
62 1/2	62	54	PW4054	PW4254	PW4454	PW4654	PW4854	PW5054	PW5254
66 1/2	66	58	PW4058	PW4258	PW4458	PW4658	PW4858	PW5058	PW5258
70 1/2	70	62	PW4062	PW4262	PW4462	PW4662	PW4862	PW5062	PW5262
74 1/2	74	66	PW4066	PW4266	PW4466	PW4666	PW4866	PW5066	PW5266
78 1/2	78	70	PW4070	PW4270	PW4470	PW4670	PW4870	PW5070	PW5270
82 1/2	82	74	PW4074	PW4274	PW4474	PW4674	PW4874	PW5074	PW5274

Maximum frame height for triple pane is 72"

Rough Opening			62 1/2	64 1/2	66 1/2	68 1/2	72 1/2
	Frame Size		62	64	66	68	72
		Call Size	54	56	58	60	64
34 1/2	34	26	PW5426	PW5626	PW5826	PW6026	PW6426
38 1/2	38	30	PW5430	PW5630	PW5830	PW6030	PW6430
42 1/2	42	34	PW5434	PW5634	PW5834	PW6034	PW6434
46 1/2	46	38	PW5438	PW5638	PW5838	PW6038	PW6438
50 1/2	50	42	PW5442	PW5642	PW5842	PW6042	PW6442
54 1/2	54	46	PW5446	PW5646	PW5846	PW6046	PW6446
58 1/2	58	50	PW5450	PW5650	PW5850	PW6050	PW6450
60 1/2	60	52	PW5452	PW5652	PW5852	PW6052	PW6452
62 1/2	62	54	PW5454	PW5654	PW5854	PW6054	PW6454
66 1/2	66	58	PW5458	PW5658	PW5858	PW6058	PW6458
70 1/2	70	62	PW5462	PW5662	PW5862	PW6062	PW6462
74 1/2	74	66	PW5466	PW5666	PW5866	PW6066	-
78 1/2	78	70	PW5470	PW5670	PW5870	-	-
82 1/2	82	74	PW5474	-	-	-	-

Maximum frame height for triple pane is 72"

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW1226	12	26	12 1/2	26 1/2	2.3	4.7
PW1230	12	30	12 1/2	30 1/2	2.6	5.2
PW1234	12	34	12 1/2	34 1/2	2.9	5.8
PW1238	12	38	12 1/2	38 1/2	3.3	6.3
PW1242	12	42	12 1/2	42 1/2	3.6	6.9
PW1246	12	46	12 1/2	46 1/2	4.0	7.5
PW1250	12	50	12 1/2	50 1/2	4.3	8.0
PW1252	12	52	12 1/2	52 1/2	4.5	8.3
PW1254	12	54	12 1/2	54 1/2	4.7	8.6
PW1258	12	58	12 1/2	58 1/2	5.0	9.1
PW1262	12	62	12 1/2	62 1/2	5.4	9.7
PW1266	12	66	12 1/2	66 1/2	5.7	10.2
PW1270	12	70	12 1/2	70 1/2	6.1	10.8
PW1274	12	74	12 1/2	74 1/2	6.4	11.3
PW1426	14	26	14 1/2	26 1/2	2.6	5.1
PW1430	14	30	14 1/2	30 1/2	3.0	5.8
PW1434	14	34	14 1/2	34 1/2	3.4	6.4
PW1438	14	38	14 1/2	38 1/2	3.8	7.0
PW1442	14	42	14 1/2	42 1/2	4.2	7.6
PW1446	14	46	14 1/2	46 1/2	4.6	8.2
PW1450	14	50	14 1/2	50 1/2	5.0	8.8
PW1452	14	52	14 1/2	52 1/2	5.2	9.1
PW1454	14	54	14 1/2	54 1/2	5.4	9.4
PW1458	14	58	14 1/2	58 1/2	5.8	10.0
PW1462	14	62	14 1/2	62 1/2	6.2	10.6
PW1466	14	66	14 1/2	66 1/2	6.6	11.3
PW1470	14	70	14 1/2	70 1/2	7.0	11.9
PW1474	14	74	14 1/2	74 1/2	7.5	12.5
PW1626	16	26	16 1/2	26 1/2	3.0	5.6
PW1630	16	30	16 1/2	30 1/2	3.4	6.3
PW1634	16	34	16 1/2	34 1/2	3.9	7.0
PW1638	16	38	16 1/2	38 1/2	4.4	7.6
PW1642	16	42	16 1/2	42 1/2	4.8	8.3
PW1646	16	46	16 1/2	46 1/2	5.3	9.0
PW1650	16	50	16 1/2	50 1/2	5.7	9.6
PW1652	16	52	16 1/2	52 1/2	6.0	10.0
PW1654	16	54	16 1/2	54 1/2	6.2	10.3
PW1658	16	58	16 1/2	58 1/2	6.7	11.0
PW1662	16	62	16 1/2	62 1/2	7.1	11.6
PW1666	16	66	16 1/2	66 1/2	7.6	12.3
PW1670	16	70	16 1/2	70 1/2	8.0	13.0
PW1674	16	74	16 1/2	74 1/2	8.5	13.6

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW1826	18	26	18 1/2	26 1/2	3.4	6.1
PW1830	18	30	18 1/2	30 1/2	3.9	6.8
PW1834	18	34	18 1/2	34 1/2	4.4	7.5
PW1838	18	38	18 1/2	38 1/2	4.9	8.3
PW1842	18	42	18 1/2	42 1/2	5.4	9.0
PW1846	18	46	18 1/2	46 1/2	5.9	9.7
PW1850	18	50	18 1/2	50 1/2	6.4	10.4
PW1852	18	52	18 1/2	52 1/2	6.7	10.8
PW1854	18	54	18 1/2	54 1/2	7.0	11.1
PW1858	18	58	18 1/2	58 1/2	7.5	11.9
PW1862	18	62	18 1/2	62 1/2	8.0	12.6
PW1866	18	66	18 1/2	66 1/2	8.5	13.3
PW1870	18	70	18 1/2	70 1/2	9.0	14.0
PW1874	18	74	18 1/2	74 1/2	9.5	14.8
PW2026	20	26	20 1/2	26 1/2	3.7	6.6
PW2030	20	30	20 1/2	30 1/2	4.3	7.3
PW2034	20	34	20 1/2	34 1/2	4.9	8.1
PW2038	20	38	20 1/2	38 1/2	5.4	8.9
PW2042	20	42	20 1/2	42 1/2	6.0	9.7
PW2046	20	46	20 1/2	46 1/2	6.6	10.5
PW2050	20	50	20 1/2	50 1/2	7.1	11.2
PW2052	20	52	20 1/2	52 1/2	7.4	11.6
PW2054	20	54	20 1/2	54 1/2	7.7	12.0
PW2058	20	58	20 1/2	58 1/2	8.3	12.8
PW2062	20	62	20 1/2	62 1/2	8.8	13.6
PW2066	20	66	20 1/2	66 1/2	9.4	14.3
PW2070	20	70	20 1/2	70 1/2	10.0	15.1
PW2074	20	74	20 1/2	74 1/2	10.6	15.9
PW2426	24	26	24 1/2	26 1/2	4.5	7.5
PW2430	24	30	24 1/2	30 1/2	5.1	8.4
PW2434	24	34	24 1/2	34 1/2	5.8	9.3
PW2438	24	38	24 1/2	38 1/2	6.5	10.2
PW2442	24	42	24 1/2	42 1/2	7.2	11.1
PW2446	24	46	24 1/2	46 1/2	7.9	12.0
PW2450	24	50	24 1/2	50 1/2	8.5	12.8
PW2452	24	52	24 1/2	52 1/2	8.9	13.3
PW2454	24	54	24 1/2	54 1/2	9.2	13.7
PW2458	24	58	24 1/2	58 1/2	9.9	14.6
PW2462	24	62	24 1/2	62 1/2	10.6	15.5
PW2466	24	66	24 1/2	66 1/2	11.3	16.4
PW2470	24	70	24 1/2	70 1/2	11.9	17.3
PW2474	24	74	24 1/2	74 1/2	12.6	18.2

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW2626	26	26	26 1/2	26 1/2	4.8	8.0
PW2630	26	30	26 1/2	30 1/2	5.6	8.9
PW2634	26	34	26 1/2	34 1/2	6.3	9.9
PW2638	26	38	26 1/2	38 1/2	7.0	10.8
PW2642	26	42	26 1/2	42 1/2	7.8	11.8
PW2646	26	46	26 1/2	46 1/2	8.5	12.7
PW2650	26	50	26 1/2	50 1/2	9.2	13.6
PW2652	26	52	26 1/2	52 1/2	9.6	14.1
PW2654	26	54	26 1/2	54 1/2	10.0	14.6
PW2658	26	58	26 1/2	58 1/2	10.7	15.5
PW2662	26	62	26 1/2	62 1/2	11.5	16.5
PW2666	26	66	26 1/2	66 1/2	12.2	17.4
PW2670	26	70	26 1/2	70 1/2	12.9	18.4
PW2674	26	74	26 1/2	74 1/2	13.7	19.3
PW2826	28	26	28 1/2	26 1/2	5.2	8.5
PW2830	28	30	28 1/2	30 1/2	6.0	9.5
PW2834	28	34	28 1/2	34 1/2	6.8	10.5
PW2838	28	38	28 1/2	38 1/2	7.6	11.5
PW2842	28	42	28 1/2	42 1/2	8.4	12.5
PW2846	28	46	28 1/2	46 1/2	9.2	13.5
PW2850	28	50	28 1/2	50 1/2	9.9	14.5
PW2852	28	52	28 1/2	52 1/2	10.3	15.0
PW2854	28	54	28 1/2	54 1/2	10.7	15.5
PW2858	28	58	28 1/2	58 1/2	11.5	16.5
PW2862	28	62	28 1/2	62 1/2	12.3	17.5
PW2866	28	66	28 1/2	66 1/2	13.1	18.5
PW2870	28	70	28 1/2	70 1/2	13.9	19.5
PW2874	28	74	28 1/2	74 1/2	14.7	20.5
PW3026	30	26	30 1/2	26 1/2	5.6	8.9
PW3030	30	30	30 1/2	30 1/2	6.4	10.0
PW3034	30	34	30 1/2	34 1/2	7.3	11.0
PW3038	30	38	30 1/2	38 1/2	8.1	12.1
PW3042	30	42	30 1/2	42 1/2	9.0	13.1
PW3046	30	46	30 1/2	46 1/2	9.8	14.2
PW3050	30	50	30 1/2	50 1/2	10.6	15.3
PW3052	30	52	30 1/2	52 1/2	11.1	15.8
PW3054	30	54	30 1/2	54 1/2	11.5	16.3
PW3058	30	58	30 1/2	58 1/2	12.3	17.4
PW3062	30	62	30 1/2	62 1/2	13.2	18.4
PW3066	30	66	30 1/2	66 1/2	14.0	19.5
PW3070	30	70	30 1/2	70 1/2	14.9	20.5
PW3074	30	74	30 1/2	74 1/2	15.7	21.6

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW3126	31	26	31 1/2	26 1/2	5.7	9.2
PW3130	31	30	31 1/2	30 1/2	6.6	10.2
PW3134	31	34	31 1/2	34 1/2	7.5	11.3
PW3138	31	38	31 1/2	38 1/2	8.4	12.4
PW3142	31	42	31 1/2	42 1/2	9.2	13.5
PW3146	31	46	31 1/2	46 1/2	10.1	14.6
PW3150	31	50	31 1/2	50 1/2	11.0	15.7
PW3152	31	52	31 1/2	52 1/2	11.4	16.2
PW3154	31	54	31 1/2	54 1/2	11.9	16.7
PW3158	31	58	31 1/2	58 1/2	12.7	17.8
PW3162	31	62	31 1/2	62 1/2	13.6	18.9
PW3166	31	66	31 1/2	66 1/2	14.5	20.0
PW3170	31	70	31 1/2	70 1/2	15.4	21.1
PW3174	31	74	31 1/2	74 1/2	16.2	22.2
PW3226	32	26	32 1/2	26 1/2	5.9	9.4
PW3230	32	30	32 1/2	30 1/2	6.8	10.5
PW3234	32	34	32 1/2	34 1/2	7.7	11.6
PW3238	32	38	32 1/2	38 1/2	8.6	12.7
PW3242	32	42	32 1/2	42 1/2	9.5	13.8
PW3246	32	46	32 1/2	46 1/2	10.4	15.0
PW3250	32	50	32 1/2	50 1/2	11.3	16.1
PW3252	32	52	32 1/2	52 1/2	11.8	16.6
PW3254	32	54	32 1/2	54 1/2	12.3	17.2
PW3258	32	58	32 1/2	58 1/2	13.2	18.3
PW3262	32	62	32 1/2	62 1/2	14.1	19.4
PW3266	32	66	32 1/2	66 1/2	15.0	20.5
PW3270	32	70	32 1/2	70 1/2	15.9	21.6
PW3274	32	74	32 1/2	74 1/2	16.8	22.7
PW3426	34	26	34 1/2	26 1/2	6.3	9.9
PW3430	34	30	34 1/2	30 1/2	7.3	11.0
PW3434	34	34	34 1/2	34 1/2	8.2	12.2
PW3438	34	38	34 1/2	38 1/2	9.2	13.4
PW3442	34	42	34 1/2	42 1/2	10.1	14.5
PW3446	34	46	34 1/2	46 1/2	11.1	15.7
PW3450	34	50	34 1/2	50 1/2	12.0	16.9
PW3452	34	52	34 1/2	52 1/2	12.5	17.5
PW3454	34	54	34 1/2	54 1/2	13.0	18.0
PW3458	34	58	34 1/2	58 1/2	14.0	19.2
PW3462	34	62	34 1/2	62 1/2	14.9	20.4
PW3466	34	66	34 1/2	66 1/2	15.9	21.5
PW3470	34	70	34 1/2	70 1/2	16.8	22.7
PW3474	34	74	34 1/2	74 1/2	17.8	23.9

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW3626	36	26	36 1/2	26 1/2	6.7	10.3
PW3630	36	30	36 1/2	30 1/2	7.7	11.6
PW3634	36	34	36 1/2	34 1/2	8.7	12.8
PW3638	36	38	36 1/2	38 1/2	9.7	14.0
PW3642	36	42	36 1/2	42 1/2	10.7	15.2
PW3646	36	46	36 1/2	46 1/2	11.7	16.5
PW3650	36	50	36 1/2	50 1/2	12.8	17.7
PW3652	36	52	36 1/2	52 1/2	13.3	18.3
PW3654	36	54	36 1/2	54 1/2	13.8	18.9
PW3658	36	58	36 1/2	58 1/2	14.8	20.1
PW3662	36	62	36 1/2	62 1/2	15.8	21.3
PW3666	36	66	36 1/2	66 1/2	16.8	22.6
PW3670	36	70	36 1/2	70 1/2	17.8	23.8
PW3674	36	74	36 1/2	74 1/2	18.8	25.0
PW3826	38	26	38 1/2	26 1/2	7.0	10.8
PW3830	38	30	38 1/2	30 1/2	8.1	12.1
PW3834	38	34	38 1/2	34 1/2	9.2	13.4
PW3838	38	38	38 1/2	38 1/2	10.2	14.6
PW3842	38	42	38 1/2	42 1/2	11.3	15.9
PW3846	38	46	38 1/2	46 1/2	12.4	17.2
PW3850	38	50	38 1/2	50 1/2	13.5	18.5
PW3852	38	52	38 1/2	52 1/2	14.0	19.1
PW3854	38	54	38 1/2	54 1/2	14.5	19.8
PW3858	38	58	38 1/2	58 1/2	15.6	21.0
PW3862	38	62	38 1/2	62 1/2	16.7	22.3
PW3866	38	66	38 1/2	66 1/2	17.7	23.6
PW3870	38	70	38 1/2	70 1/2	18.8	24.9
PW3874	38	74	38 1/2	74 1/2	19.9	26.1
PW4026	40	26	40 1/2	26 1/2	7.4	11.3
PW4030	40	30	40 1/2	30 1/2	8.5	12.6
PW4034	40	34	40 1/2	34 1/2	9.7	14.0
PW4038	40	38	40 1/2	38 1/2	10.8	15.3
PW4042	40	42	40 1/2	42 1/2	11.9	16.6
PW4046	40	46	40 1/2	46 1/2	13.0	18.0
PW4050	40	50	40 1/2	50 1/2	14.2	19.3
PW4052	40	52	40 1/2	52 1/2	14.7	20.0
PW4054	40	54	40 1/2	54 1/2	15.3	20.6
PW4058	40	58	40 1/2	58 1/2	16.4	22.0
PW4062	40	62	40 1/2	62 1/2	17.5	23.3
PW4066	40	66	40 1/2	66 1/2	18.7	24.6
PW4070	40	70	40 1/2	70 1/2	19.8	26.0
PW4074	40	74	40 1/2	74 1/2	20.9	27.3

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW4226	42	26	42 1/2	26 1/2	7.8	11.8
PW4230	42	30	42 1/2	30 1/2	9.0	13.1
PW4234	42	34	42 1/2	34 1/2	10.1	14.5
PW4238	42	38	42 1/2	38 1/2	11.3	15.9
PW4242	42	42	42 1/2	42 1/2	12.5	17.3
PW4246	42	46	42 1/2	46 1/2	13.7	18.7
PW4250	42	50	42 1/2	50 1/2	14.9	20.1
PW4252	42	52	42 1/2	52 1/2	15.4	20.8
PW4254	42	54	42 1/2	54 1/2	16.0	21.5
PW4258	42	58	42 1/2	58 1/2	17.2	22.9
PW4262	42	62	42 1/2	62 1/2	18.4	24.3
PW4266	42	66	42 1/2	66 1/2	19.6	25.6
PW4270	42	70	42 1/2	70 1/2	20.8	27.0
PW4274	42	74	42 1/2	74 1/2	21.9	28.4
PW4426	44	26	44 1/2	26 1/2	8.1	12.2
PW4430	44	30	44 1/2	30 1/2	9.4	13.7
PW4434	44	34	44 1/2	34 1/2	10.6	15.1
PW4438	44	38	44 1/2	38 1/2	11.8	16.6
PW4442	44	42	44 1/2	42 1/2	13.1	18.0
PW4446	44	46	44 1/2	46 1/2	14.3	19.5
PW4450	44	50	44 1/2	50 1/2	15.6	20.9
PW4452	44	52	44 1/2	52 1/2	16.2	21.6
PW4454	44	54	44 1/2	54 1/2	16.8	22.3
PW4458	44	58	44 1/2	58 1/2	18.0	23.8
PW4462	44	62	44 1/2	62 1/2	19.3	25.2
PW4466	44	66	44 1/2	66 1/2	20.5	26.7
PW4470	44	70	44 1/2	70 1/2	21.7	28.1
PW4474	44	74	44 1/2	74 1/2	23.0	29.6
PW4626	46	26	46 1/2	26 1/2	8.5	12.7
PW4630	46	30	46 1/2	30 1/2	9.8	14.2
PW4634	46	34	46 1/2	34 1/2	11.1	15.7
PW4638	46	38	46 1/2	38 1/2	12.4	17.2
PW4642	46	42	46 1/2	42 1/2	13.7	18.7
PW4646	46	46	46 1/2	46 1/2	15.0	20.2
PW4650	46	50	46 1/2	50 1/2	16.3	21.7
PW4652	46	52	46 1/2	52 1/2	16.9	22.5
PW4654	46	54	46 1/2	54 1/2	17.5	23.2
PW4658	46	58	46 1/2	58 1/2	18.8	24.7
PW4662	46	62	46 1/2	62 1/2	20.1	26.2
PW4666	46	66	46 1/2	66 1/2	21.4	27.7
PW4670	46	70	46 1/2	70 1/2	22.7	29.2
PW4674	46	74	46 1/2	74 1/2	24.0	30.7

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW4826	48	26	48 1/2	26 1/2	8.9	13.2
PW4830	48	30	48 1/2	30 1/2	10.2	14.7
PW4834	48	34	48 1/2	34 1/2	11.6	16.3
PW4838	48	38	48 1/2	38 1/2	12.9	17.8
PW4842	48	42	48 1/2	42 1/2	14.3	19.4
PW4846	48	46	48 1/2	46 1/2	15.6	21.0
PW4850	48	50	48 1/2	50 1/2	17.0	22.5
PW4852	48	52	48 1/2	52 1/2	17.6	23.3
PW4854	48	54	48 1/2	54 1/2	18.3	24.1
PW4858	48	58	48 1/2	58 1/2	19.7	25.6
PW4862	48	62	48 1/2	62 1/2	21.0	27.2
PW4866	48	66	48 1/2	66 1/2	22.3	28.7
PW4870	48	70	48 1/2	70 1/2	23.7	30.3
PW4874	48	74	48 1/2	74 1/2	25.0	31.8
PW5026	50	26	50 1/2	26 1/2	9.2	13.6
PW5030	50	30	50 1/2	30 1/2	10.6	15.3
PW5034	50	34	50 1/2	34 1/2	12.0	16.9
PW5038	50	38	50 1/2	38 1/2	13.5	18.5
PW5042	50	42	50 1/2	42 1/2	14.9	20.1
PW5046	50	46	50 1/2	46 1/2	16.3	21.7
PW5050	50	50	50 1/2	50 1/2	17.7	23.3
PW5052	50	52	50 1/2	52 1/2	18.4	24.1
PW5054	50	54	50 1/2	54 1/2	19.1	24.9
PW5058	50	58	50 1/2	58 1/2	20.5	26.5
PW5062	50	62	50 1/2	62 1/2	21.9	28.1
PW5066	50	66	50 1/2	66 1/2	23.3	29.8
PW5070	50	70	50 1/2	70 1/2	24.7	31.4
PW5074	50	74	50 1/2	74 1/2	26.1	33.0
PW5226	52	26	52 1/2	26 1/2	9.6	14.1
PW5230	52	30	52 1/2	30 1/2	11.1	15.8
PW5234	52	34	52 1/2	34 1/2	12.5	17.5
PW5238	52	38	52 1/2	38 1/2	14.0	19.1
PW5242	52	42	52 1/2	42 1/2	15.4	20.8
PW5246	52	46	52 1/2	46 1/2	16.9	22.5
PW5250	52	50	52 1/2	50 1/2	18.4	24.1
PW5252	52	52	52 1/2	52 1/2	19.1	25.0
PW5254	52	54	52 1/2	54 1/2	19.8	25.8
PW5258	52	58	52 1/2	58 1/2	21.3	27.5
PW5262	52	62	52 1/2	62 1/2	22.7	29.1
PW5266	52	66	52 1/2	66 1/2	24.2	30.8
PW5270	52	70	52 1/2	70 1/2	25.7	32.5
PW5274	52	74	52 1/2	74 1/2	27.1	34.1

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW5426	54	26	54 1/2	26 1/2	10.0	14.6
PW5430	54	30	54 1/2	30 1/2	11.5	16.3
PW5434	54	34	54 1/2	34 1/2	13.0	18.0
PW5438	54	38	54 1/2	38 1/2	14.5	19.8
PW5442	54	42	54 1/2	42 1/2	16.0	21.5
PW5446	54	46	54 1/2	46 1/2	17.5	23.2
PW5450	54	50	54 1/2	50 1/2	19.1	24.9
PW5452	54	52	54 1/2	52 1/2	19.8	25.8
PW5454	54	54	54 1/2	54 1/2	20.6	26.6
PW5458	54	58	54 1/2	58 1/2	22.1	28.4
PW5462	54	62	54 1/2	62 1/2	23.6	30.1
PW5466	54	66	54 1/2	66 1/2	25.1	31.8
PW5470	54	70	54 1/2	70 1/2	26.6	33.5
PW5474	54	74	54 1/2	74 1/2	28.1	35.3
PW5626	56	26	56 1/2	26 1/2	10.3	15.1
PW5630	56	30	56 1/2	30 1/2	11.9	16.8
PW5634	56	34	56 1/2	34 1/2	13.5	18.6
PW5638	56	38	56 1/2	38 1/2	15.1	20.4
PW5642	56	42	56 1/2	42 1/2	16.6	22.2
PW5646	56	46	56 1/2	46 1/2	18.2	24.0
PW5650	56	50	56 1/2	50 1/2	19.8	25.7
PW5652	56	52	56 1/2	52 1/2	20.5	26.6
PW5654	56	54	56 1/2	54 1/2	21.3	27.5
PW5658	56	58	56 1/2	58 1/2	22.9	29.3
PW5662	56	62	56 1/2	62 1/2	24.5	31.1
PW5666	56	66	56 1/2	66 1/2	26.0	32.8
PW5670	56	70	56 1/2	70 1/2	27.6	34.6
PW5826	58	26	58 1/2	26 1/2	10.7	15.5
PW5830	58	30	58 1/2	30 1/2	12.3	17.4
PW5834	58	34	58 1/2	34 1/2	14.0	19.2
PW5838	58	38	58 1/2	38 1/2	15.6	21.0
PW5842	58	42	58 1/2	42 1/2	17.2	22.9
PW5846	58	46	58 1/2	46 1/2	18.8	24.7
PW5850	58	50	58 1/2	50 1/2	20.5	26.5
PW5852	58	52	58 1/2	52 1/2	21.3	27.5
PW5854	58	54	58 1/2	54 1/2	22.1	28.4
PW5858	58	58	58 1/2	58 1/2	23.7	30.2
PW5862	58	62	58 1/2	62 1/2	25.3	32.0
PW5866	58	66	58 1/2	66 1/2	27.0	33.9
PW5870	58	70	58 1/2	70 1/2	28.6	35.7

Call Size	Nominal Glass Width	Nominal Glass Height	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
PW6026	60	26	60 1/2	26 1/2	11.1	16.0
PW6030	60	30	60 1/2	30 1/2	12.8	17.9
PW6034	60	34	60 1/2	34 1/2	14.4	19.8
PW6038	60	38	60 1/2	38 1/2	16.1	21.7
PW6042	60	42	60 1/2	42 1/2	17.8	23.6
PW6046	60	46	60 1/2	46 1/2	19.5	25.5
PW6050	60	50	60 1/2	50 1/2	21.2	27.3
PW6052	60	52	60 1/2	52 1/2	22.0	28.3
PW6054	60	54	60 1/2	54 1/2	22.8	29.2
PW6058	60	58	60 1/2	58 1/2	24.5	31.1
PW6062	60	62	60 1/2	62 1/2	26.2	33.0
PW6066	60	66	60 1/2	66 1/2	27.9	34.9
PW6426	64	26	64 1/2	26 1/2	11.8	17.0
PW6430	64	30	64 1/2	30 1/2	13.6	19.0
PW6434	64	34	64 1/2	34 1/2	15.4	21.0
PW6438	64	38	64 1/2	38 1/2	17.2	23.0
PW6442	64	42	64 1/2	42 1/2	19.0	25.0
PW6446	64	46	64 1/2	46 1/2	20.8	27.0
PW6450	64	50	64 1/2	50 1/2	22.6	29.0
PW6452	64	52	64 1/2	52 1/2	23.5	30.0
PW6454	64	54	64 1/2	54 1/2	24.4	31.0
PW6458	64	58	64 1/2	58 1/2	26.2	33.0
PW6462	64	62	64 1/2	62 1/2	27.9	35.0

**Casement Window Thermal Performance**

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.24	0.22	0.42	61	Yes	-	NC	SC	S
Dual Pane Low-E (Cardinal 270)	0.27	0.23	0.42	57	Yes	-	-	SC	S
Dual Pane Clear	0.37	0.47	0.49	44	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.25	0.22	0.42	60	Yes	-	NC	SC	S
Dual Pane Low-E Tempered (Cardinal 270)	0.27	0.23	0.42	56	Yes	-	-	SC	S
Dual Pane Clear Tempered	0.38	0.47	0.49	44	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.24	0.37	0.46	61	Yes	N	NC	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.24	0.37	0.46	59	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.21	0.21	0.38	67	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.18	0.19	0.32	72	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.21	0.21	0.38	65	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.18	0.19	0.32	71	Yes	N	NC	SC	S
Triple Pane E7 (Cardinal 270)	0.21	0.21	0.38	67	Yes	N	NC	SC	S
Triple Pane E7 Tempered (Cardinal 270)	0.21	0.21	0.38	65	Yes	N	NC	SC	S
Triple Pane E7 Tempered (Cardinal 180)	0.23	0.36	0.43	62	Yes	N	NC	-	-

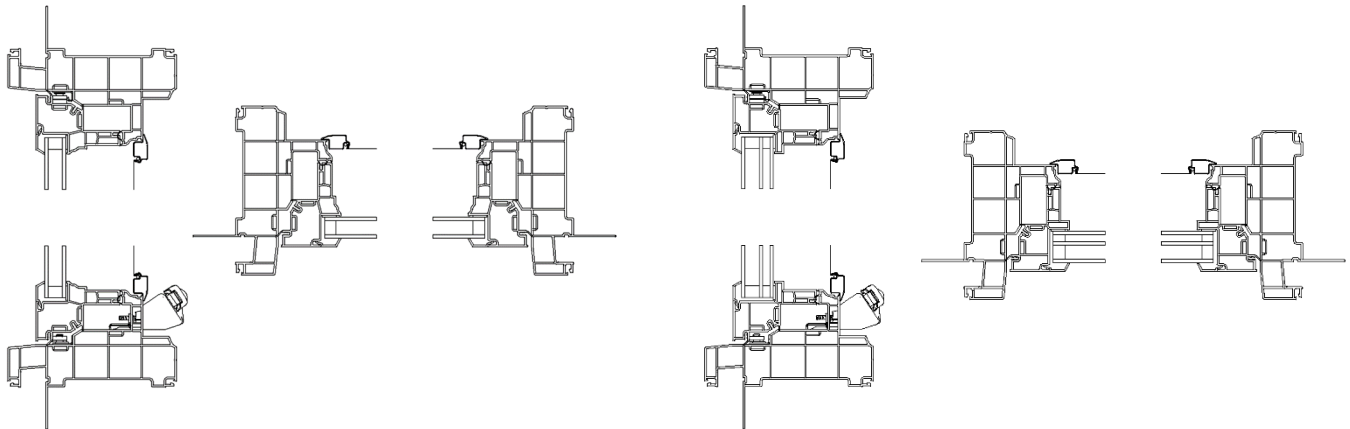
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.




































































































**Casement Window Structural Performance (Dual and Triple Pane Glazing)**

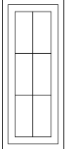
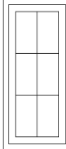
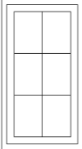
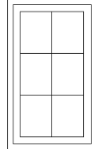
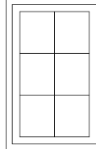
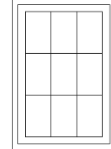
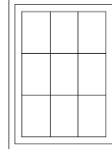
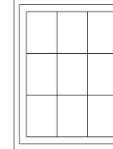
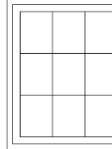
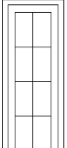
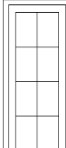
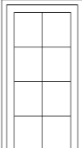
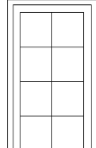
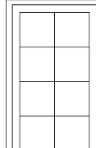
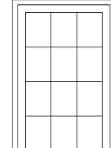
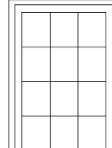
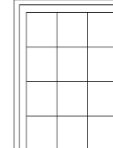
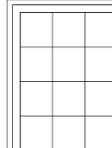
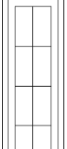
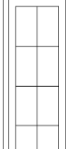
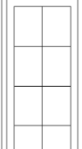
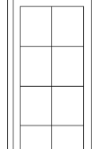
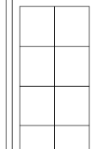
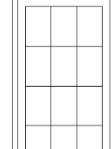
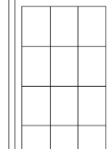
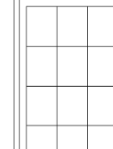
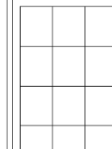
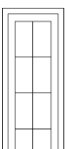
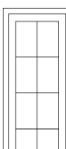
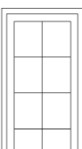
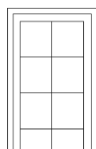
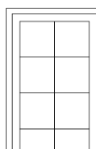
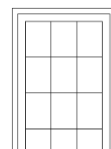
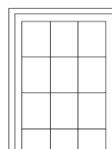
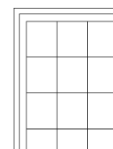
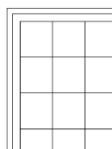
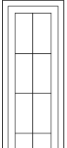
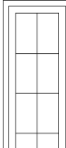
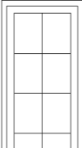
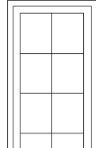
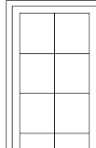
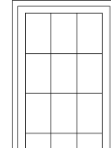
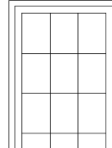
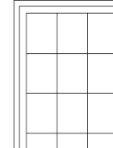
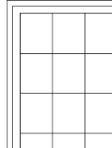
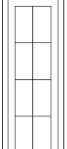
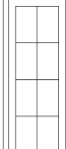
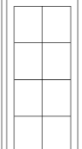
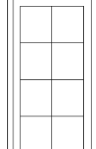
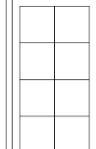
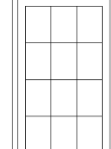
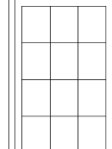
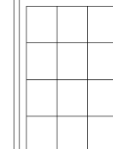
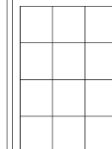
Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Casement - Vent	36 x 72	Single	PG65	CW

**Detail Drawings:**

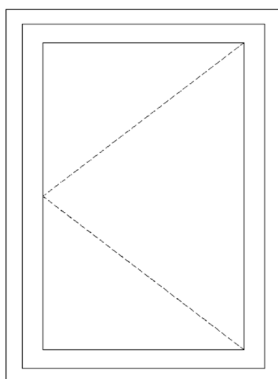
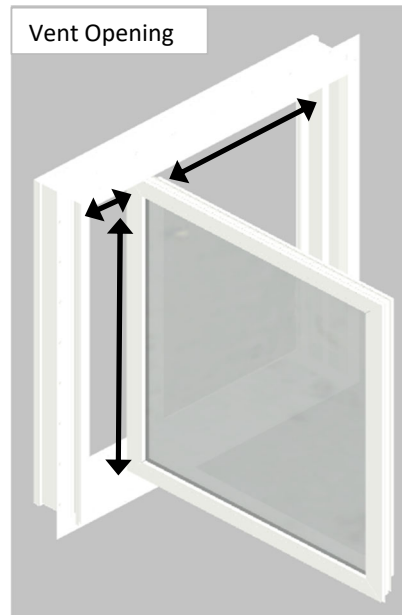
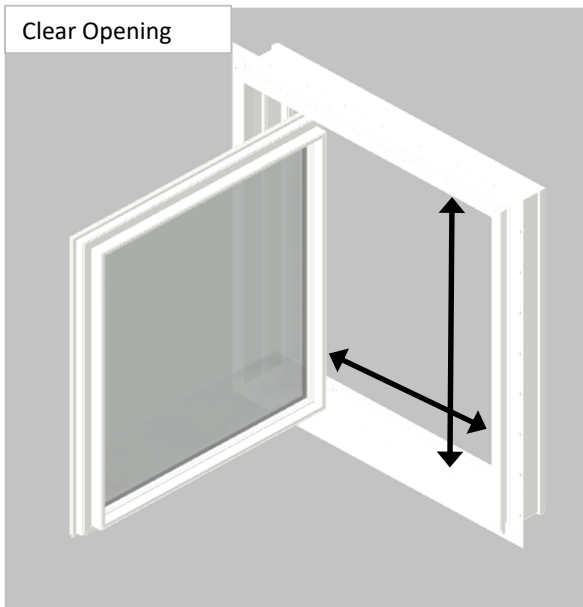


For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

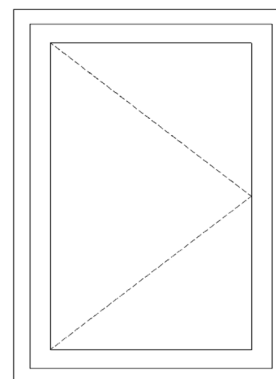
Rough Opening	18 1/2	20 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2
Frame Size	18	20	24	26	28	30	32	34	36
Call Size	18	20	24	26	28	30	32	34	36
18 1/2	18  CA1818	20  CA2018	24  CA2418	26  CA2618	28  CA2818	30  CA3018	32  CA3218	34  CA3418	36  CA3618
20 1/2	20  CA1820	20  CA2020	24  CA2420	26  CA2620	28  CA2820	30  CA3020	32  CA3220	34  CA3420	36  CA3620
24 1/2	24  CA1824	24  CA2024	24  CA2424	26  CA2624	28  CA2824	30  CA3024	32  CA3224	34  CA3424	36  CA3624
28 1/2	28  CA1828	28  CA2028	24  CA2428	26  CA2628	28  CA2828	30  CA3028	32  CA3228	34  CA3428	36  CA3628
30 1/2	30  CA1830	30  CA2030	24  CA2430	26  CA2630	28  CA2830	30  CA3030	32  CA3230	34  CA3430	36  CA3630
32 1/2	32  CA1832	32  CA2032	24  CA2432	26  CA2632	28  CA2832	30  CA3032	32  CA3232	34  CA3432	36  CA3632
34 1/2	34  CA1834	34  CA2034	24  CA2434	26  CA2634	28  CA2834	30  CA3034	32  CA3234	34  CA3434	36  CA3634
36 1/2	36  CA1836	36  CA2036	24  CA2436	26  CA2636	28  CA2836	30  CA3036	32  CA3236	34  CA3436	36  CA3636
38 1/2	38  CA1838	38  CA2038	24  CA2438	26  CA2638	28  CA2838	30  CA3038	32  CA3238	34  CA3438	36  CA3638
40 1/2	40  CA1840	40  CA2040	24  CA2440	26  CA2640	28  CA2840	30  CA3040	32  CA3240	34  CA3440	36  CA3640
42 1/2	42  CA1842	42  CA2042	24  CA2442	26  CA2642	28  CA2842	30  CA3042	32  CA3242	34  CA3442	36  CA3642

Rough Opening	18 1/2	20 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2	
Frame Size	18	20	24	26	28	30	32	34	36	
Call Size	18	20	24	26	28	30	32	34	36	
44 1/2	44	 CA1844	 CA2044	 CA2444	 CA2644	 CA2844	 CA3044	 CA3244	 CA3444	 CA3644
48 1/2	48	 CA1848	 CA2048	 CA2448	 CA2648	 CA2848	 CA3048	 CA3248	 CA3448	 CA3648
54 1/2	54	 CA1854	 CA2054	 CA2454	 CA2654	 CA2854	 CA3054	 CA3254	 CA3454	 CA3654
60 1/2	60	 CA1860	 CA2060	 CA2460	 CA2660	 CA2860	 CA3060	 CA3260	 CA3460	 CA3660
66 1/2	66	 CA1866	 CA2066	 CA2466	 CA2666	 CA2866	 CA3066	 CA3266	 CA3466	 CA3666
72 1/2	72	 CA1872	 CA2072	 CA2472	 CA2672	 CA2872	 CA3072	 CA3272	 CA3472	 CA3672

Rough Opening			18 1/2	20 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2
	Frame Size		18	20	24	26	28	30	32	34	36
		Call Size	18	20	24	26	28	30	32	34	36
18 1/2	18	18	CA1818	CA2018	CA2418	CA2618	CA2818	CA3018	CA3218	CA3418	CA3618
20 1/2	20	20	CA1820	CA2020	CA2420	CA2620	CA2820	CA3020	CA3220	CA3420	CA3620
24 1/2	24	24	CA1824	CA2024	CA2424	CA2624	CA2824	CA3024	CA3224	CA3424	CA3624
28 1/2	28	28	CA1828	CA2028	CA2428	CA2628	CA2828	CA3028	CA3228	CA3428	CA3628
30 1/2	30	30	CA1830	CA2030	CA2430	CA2630	CA2830	CA3030	CA3230	CA3430	CA3630
32 1/2	32	32	CA1832	CA2032	CA2432	CA2632	CA2832	CA3032	CA3232	CA3432	CA3632
34 1/2	34	34	CA1834	CA2034	CA2434	CA2634	CA2834	CA3034	CA3234	CA3434	CA3634
36 1/2	36	36	CA1836	CA2036	CA2436	CA2636	CA2836	CA3036	CA3236	CA3436	CA3636
38 1/2	38	38	CA1838	CA2038	CA2438	CA2638	CA2838	CA3038	CA3238	CA3438	CA3638
40 1/2	40	40	CA1840	CA2040	CA2440	CA2640	CA2840	CA3040	CA3240	CA3440	CA3640
42 1/2	42	42	CA1842	CA2042	CA2442	CA2642	CA2842	CA3042	CA3242	CA3442	CA3642
44 1/2	44	44	CA1844	CA2044	CA2444	CA2644	CA2844	CA3044	CA3244	CA3444	CA3644
48 1/2	48	48	CA1848	CA2048	CA2448	CA2648	CA2848	CA3048	CA3248	CA3448	CA3648
54 1/2	54	54	CA1854	CA2054	CA2454	CA2654	CA2854	CA3054	CA3254	CA3454	CA3654
60 1/2	60	60	CA1860	CA2060	CA2460	CA2660	CA2860	CA3060	CA3260	CA3460	CA3660
66 1/2	66	66	CA1866	CA2066	CA2466	CA2666	CA2866	CA3066	CA3266	CA3466	CA3666
72 1/2	72	72	CA1872	CA2072	CA2472	CA2672	CA2872	CA3072	CA3272	CA3472	CA3672



Left Hinge (From Exterior)



Right Hinge (From Exterior)

Call Size	Clear Opening width Standard Hinge	Clear Opening width Special Hinge	Clear Opening Height	Clear Opening Area Standard Hinge (ft <sup>2</sup> )	Clear Opening Area Special Hinge (ft <sup>2</sup> )
CA1818	3 15/16	-	11 1/8	0.3	-
CA1820	3 15/16	-	13 1/8	0.3	-
CA1824	3 15/16	-	17 1/8	0.4	-
CA1828	3 15/16	-	21 1/8	0.5	-
CA1830	3 15/16	-	23 1/8	0.6	-
CA1832	3 15/16	-	25 1/8	0.6	-
CA1834	3 15/16	-	27 1/8	0.7	-
CA1836	3 15/16	-	29 1/8	0.7	-
CA1838	3 15/16	-	31 1/8	0.8	-
CA1840	3 15/16	-	33 1/8	0.9	-
CA1842	3 15/16	-	35 1/8	0.9	-
CA1844	3 15/16	-	37 1/8	1.0	-
CA1848	3 15/16	-	41 1/8	1.1	-
CA1854	3 15/16	-	47 1/8	1.2	-
CA1860	3 15/16	-	53 1/8	1.4	-
CA1866	3 15/16	-	59 1/8	1.6	-
CA1872	3 15/16	-	65 1/8	1.7	-
CA2018	5 15/16	-	11 1/8	0.4	-
CA2020	5 15/16	-	13 1/8	0.5	-
CA2024	5 15/16	-	17 1/8	0.7	-
CA2028	5 15/16	-	21 1/8	0.8	-
CA2030	5 15/16	-	23 1/8	0.9	-
CA2032	5 15/16	-	25 1/8	1.0	-
CA2034	5 15/16	-	27 1/8	1.1	-
CA2036	5 15/16	-	29 1/8	1.2	-
CA2038	5 15/16	-	31 1/8	1.2	-
CA2040	5 15/16	-	33 1/8	1.3	-
CA2042	5 15/16	-	35 1/8	1.4	-
CA2044	5 15/16	-	37 1/8	1.5	-
CA2048	5 15/16	-	41 1/8	1.6	-
CA2054	5 15/16	-	47 1/8	1.9	-
CA2060	5 15/16	-	53 1/8	2.1	-
CA2066	5 15/16	-	59 1/8	2.4	-
CA2072	5 15/16	-	65 1/8	2.6	-
CA2418	9 15/16	-	11 1/8	0.7	-
CA2420	9 15/16	-	13 1/8	0.9	-
CA2424	9 15/16	-	17 1/8	1.1	-
CA2428	9 15/16	-	21 1/8	1.4	-
CA2430	9 15/16	-	23 1/8	1.5	-
CA2432	9 15/16	-	25 1/8	1.7	-
CA2434	9 15/16	-	27 1/8	1.8	-
CA2436	9 15/16	-	29 1/8	2.0	-
CA2438	9 15/16	-	31 1/8	2.1	-
CA2440	9 15/16	-	33 1/8	2.2	-
CA2442	9 15/16	-	35 1/8	2.4	-
CA2444	9 15/16	-	37 1/8	2.5	-
CA2448	9 15/16	-	41 1/8	2.8	-
CA2454	9 15/16	-	47 1/8	3.2	-
CA2460	9 15/16	-	53 1/8	3.6	-
CA2466	9 15/16	-	59 1/8	4.0	-
CA2472	9 15/16	-	65 1/8	4.4	-

Call Size	Clear Opening width Standard Hinge	Clear Opening width Special Hinge	Clear Opening Height	Clear Opening Area Standard Hinge (ft <sup>2</sup> )	Clear Opening Area Special Hinge (ft <sup>2</sup> )
CA2618	11 15/16	16 1/2	11 1/8	0.9	1.3
CA2620	11 15/16	16 1/2	13 1/8	1.0	1.5
CA2624	11 15/16	16 1/2	17 1/8	1.4	2.0
CA2628	11 15/16	16 1/2	21 1/8	1.7	2.4
CA2630	11 15/16	16 1/2	23 1/8	1.9	2.6
CA2632	11 15/16	16 1/2	25 1/8	2.0	2.9
CA2634	11 15/16	16 1/2	27 1/8	2.2	3.1
CA2636	11 15/16	16 1/2	29 1/8	2.4	3.3
CA2638	11 15/16	16 1/2	31 1/8	2.5	3.6
CA2640	11 15/16	16 1/2	33 1/8	2.7	3.8
CA2642	11 15/16	16 1/2	35 1/8	2.9	4.0
CA2644	11 15/16	16 1/2	37 1/8	3.0	4.3
CA2648	11 15/16	16 1/2	41 1/8	3.4	4.7
CA2654	11 15/16	16 1/2	47 1/8	3.9	5.4
CA2660	11 15/16	16 1/2	53 1/8	4.4	6.1
CA2666	11 15/16	16 1/2	59 1/8	4.9	6.8
CA2672	11 15/16	16 1/2	65 1/8	5.3	7.5
CA2818	13 15/16	18 1/2	11 1/8	1.0	1.4
CA2820	13 15/16	18 1/2	13 1/8	1.2	1.7
CA2824	13 15/16	18 1/2	17 1/8	1.6	2.2
CA2828	13 15/16	18 1/2	21 1/8	2.0	2.7
CA2830	13 15/16	18 1/2	23 1/8	2.2	3.0
CA2832	13 15/16	18 1/2	25 1/8	2.4	3.2
CA2834	13 15/16	18 1/2	27 1/8	2.6	3.5
CA2836	13 15/16	18 1/2	29 1/8	2.8	3.7
CA2838	13 15/16	18 1/2	31 1/8	3.0	4.0
CA2840	13 15/16	18 1/2	33 1/8	3.2	4.3
CA2842	13 15/16	18 1/2	35 1/8	3.3	4.5
CA2844	13 15/16	18 1/2	37 1/8	3.5	4.8
CA2848	13 15/16	18 1/2	41 1/8	3.9	5.3
CA2854	13 15/16	18 1/2	47 1/8	4.5	6.1
CA2860	13 15/16	18 1/2	53 1/8	5.1	6.8
CA2866	13 15/16	18 1/2	59 1/8	5.7	7.6
CA2872	13 15/16	18 1/2	65 1/8	6.3	8.4
CA3018	15 15/16	20 1/2	11 1/8	1.2	1.6
CA3020	15 15/16	20 1/2	13 1/8	1.4	1.9
CA3024	15 15/16	20 1/2	17 1/8	1.8	2.4
CA3028	15 15/16	20 1/2	21 1/8	2.3	3.0
CA3030	15 15/16	20 1/2	23 1/8	2.5	3.3
CA3032	15 15/16	20 1/2	25 1/8	2.7	3.6
CA3034	15 15/16	20 1/2	27 1/8	3.0	3.9
CA3036	15 15/16	20 1/2	29 1/8	3.2	4.1
CA3038	15 15/16	20 1/2	31 1/8	3.4	4.4
CA3040	15 15/16	20 1/2	33 1/8	3.6	4.7
CA3042	15 15/16	20 1/2	35 1/8	3.8	5.0
CA3044	15 15/16	20 1/2	37 1/8	4.1	5.3
CA3048	15 15/16	20 1/2	41 1/8	4.5	5.9
CA3054	15 15/16	20 1/2	47 1/8	5.2	6.7
CA3060	15 15/16	20 1/2	53 1/8	5.8	7.6
CA3066	15 15/16	20 1/2	59 1/8	6.5	8.4
CA3072	15 15/16	20 1/2	65 1/8	7.2	9.3

Call Size	Clear Opening width Standard Hinge	Clear Opening width Special Hinge	Clear Opening Height	Clear Opening Area Standard Hinge (ft <sup>2</sup> )	Clear Opening Area Special Hinge (ft <sup>2</sup> )
CA3218	17 15/16	22 1/2	11 1/8	1.3	1.7
CA3220	17 15/16	22 1/2	13 1/8	1.6	2.1
CA3224	17 15/16	22 1/2	17 1/8	2.1	2.7
CA3228	17 15/16	22 1/2	21 1/8	2.6	3.3
CA3230	17 15/16	22 1/2	23 1/8	2.8	3.6
CA3232	17 15/16	22 1/2	25 1/8	3.1	3.9
CA3234	17 15/16	22 1/2	27 1/8	3.3	4.2
CA3236	17 15/16	22 1/2	29 1/8	3.6	4.6
CA3238	17 15/16	22 1/2	31 1/8	3.8	4.9
CA3240	17 15/16	22 1/2	33 1/8	4.1	5.2
CA3242	17 15/16	22 1/2	35 1/8	4.3	5.5
CA3244	17 15/16	22 1/2	37 1/8	4.6	5.8
CA3248	17 15/16	22 1/2	41 1/8	5.1	6.4
CA3254	17 15/16	22 1/2	47 1/8	5.8	7.4
CA3260	17 15/16	22 1/2	53 1/8	6.6	8.3
CA3266	17 15/16	22 1/2	59 1/8	7.3	9.2
CA3272	17 15/16	22 1/2	65 1/8	8.1	10.2
CA3418	19 15/16	24 1/2	11 1/8	1.5	1.9
CA3420	19 15/16	24 1/2	13 1/8	1.8	2.2
CA3424	19 15/16	24 1/2	17 1/8	2.3	2.9
CA3428	19 15/16	24 1/2	21 1/8	2.9	3.6
CA3430	19 15/16	24 1/2	23 1/8	3.2	3.9
CA3432	19 15/16	24 1/2	25 1/8	3.4	4.3
CA3434	19 15/16	24 1/2	27 1/8	3.7	4.6
CA3436	19 15/16	24 1/2	29 1/8	4.0	5.0
CA3438	19 15/16	24 1/2	31 1/8	4.3	5.3
CA3440	19 15/16	24 1/2	33 1/8	4.5	5.6
CA3442	19 15/16	24 1/2	35 1/8	4.8	6.0
CA3444	19 15/16	24 1/2	37 1/8	5.1	6.3
CA3448	19 15/16	24 1/2	41 1/8	5.6	7.0
CA3454	19 15/16	24 1/2	47 1/8	6.5	8.0
CA3460	19 15/16	24 1/2	53 1/8	7.3	9.0
CA3466	19 15/16	24 1/2	59 1/8	8.1	10.1
CA3472	19 15/16	24 1/2	65 1/8	9.0	11.1
CA3618	21 15/16	26 1/2	11 1/8	1.6	2.0
CA3620	21 15/16	26 1/2	13 1/8	1.9	2.4
CA3624	21 15/16	26 1/2	17 1/8	2.6	3.2
CA3628	21 15/16	26 1/2	21 1/8	3.2	3.9
CA3630	21 15/16	26 1/2	23 1/8	3.5	4.3
CA3632	21 15/16	26 1/2	25 1/8	3.8	4.6
CA3634	21 15/16	26 1/2	27 1/8	4.1	5.0
CA3636	21 15/16	26 1/2	29 1/8	4.4	5.4
CA3638	21 15/16	26 1/2	31 1/8	4.7	5.7
CA3640	21 15/16	26 1/2	33 1/8	5.0	6.1
CA3642	21 15/16	26 1/2	35 1/8	5.3	6.5
CA3644	21 15/16	26 1/2	37 1/8	5.6	6.8
CA3648	21 15/16	26 1/2	41 1/8	6.2	7.6
CA3654	21 15/16	26 1/2	47 1/8	7.1	8.7
CA3660	21 15/16	26 1/2	53 1/8	8.0	9.8
CA3666	21 15/16	26 1/2	59 1/8	9.0	10.9
CA3672	21 15/16	26 1/2	65 1/8	9.9	12.0

Call Size	Vent Opening Area Standard Hinge (ft <sup>2</sup> )	Vent Opening Area Special Hinge (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CA1818	0.6	-	10 1/2	10 1/2	0.7	2.2
CA1820	0.7	-	10 1/2	12 1/2	0.9	2.5
CA1824	0.9	-	10 1/2	16 1/2	1.2	3.0
CA1828	1.1	-	10 1/2	20 1/2	1.4	3.5
CA1830	1.2	-	10 1/2	22 1/2	1.6	3.7
CA1832	1.3	-	10 1/2	24 1/2	1.7	4.0
CA1834	1.4	-	10 1/2	26 1/2	1.9	4.2
CA1836	1.6	-	10 1/2	28 1/2	2.0	4.5
CA1838	1.7	-	10 1/2	30 1/2	2.2	4.7
CA1840	1.8	-	10 1/2	32 1/2	2.3	5.0
CA1842	1.9	-	10 1/2	34 1/2	2.5	5.2
CA1844	2.0	-	10 1/2	36 1/2	2.6	5.5
CA1848	2.2	-	10 1/2	40 1/2	2.9	6.0
CA1854	2.5	-	10 1/2	46 1/2	3.3	6.7
CA1860	2.9	-	10 1/2	52 1/2	3.8	7.5
CA1866	3.2	-	10 1/2	58 1/2	4.2	8.2
CA1872	3.5	-	10 1/2	64 1/2	4.7	9.0
CA2018	0.7	-	12 1/2	10 1/2	0.9	2.5
CA2020	0.9	-	12 1/2	12 1/2	1.0	2.7
CA2024	1.1	-	12 1/2	16 1/2	1.4	3.3
CA2028	1.4	-	12 1/2	20 1/2	1.7	3.8
CA2030	1.5	-	12 1/2	22 1/2	1.9	4.1
CA2032	1.7	-	12 1/2	24 1/2	2.1	4.4
CA2034	1.8	-	12 1/2	26 1/2	2.3	4.7
CA2036	2.0	-	12 1/2	28 1/2	2.4	5.0
CA2038	2.1	-	12 1/2	30 1/2	2.6	5.2
CA2040	2.2	-	12 1/2	32 1/2	2.8	5.5
CA2042	2.4	-	12 1/2	34 1/2	2.9	5.8
CA2044	2.5	-	12 1/2	36 1/2	3.1	6.1
CA2048	2.8	-	12 1/2	40 1/2	3.5	6.6
CA2054	3.2	-	12 1/2	46 1/2	4.0	7.5
CA2060	3.6	-	12 1/2	52 1/2	4.5	8.3
CA2066	4.0	-	12 1/2	58 1/2	5.0	9.1
CA2072	4.4	-	12 1/2	64 1/2	5.5	10.0
CA2418	1.0	-	16 1/2	10 1/2	1.2	3.0
CA2420	1.2	-	16 1/2	12 1/2	1.4	3.3
CA2424	1.6	-	16 1/2	16 1/2	1.8	4.0
CA2428	2.0	-	16 1/2	20 1/2	2.3	4.6
CA2430	2.2	-	16 1/2	22 1/2	2.5	5.0
CA2432	2.4	-	16 1/2	24 1/2	2.8	5.3
CA2434	2.6	-	16 1/2	26 1/2	3.0	5.6
CA2436	2.8	-	16 1/2	28 1/2	3.2	6.0
CA2438	3.0	-	16 1/2	30 1/2	3.4	6.3
CA2440	3.2	-	16 1/2	32 1/2	3.7	6.6
CA2442	3.3	-	16 1/2	34 1/2	3.9	7.0
CA2444	3.5	-	16 1/2	36 1/2	4.1	7.3
CA2448	3.9	-	16 1/2	40 1/2	4.6	8.0
CA2454	4.5	-	16 1/2	46 1/2	5.3	9.0
CA2460	5.1	-	16 1/2	52 1/2	6.0	10.0
CA2466	5.7	-	16 1/2	58 1/2	6.7	11.0
CA2472	6.2	-	16 1/2	64 1/2	7.3	12.0

Call Size	Vent Opening Area Standard Hinge (ft <sup>2</sup> )	Vent Opening Area Special Hinge (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CA2618	1.2	1.2	18 1/2	10 1/2	1.3	3.2
CA2620	1.4	1.5	18 1/2	12 1/2	1.6	3.6
CA2624	1.8	1.9	18 1/2	16 1/2	2.1	4.3
CA2628	2.3	2.4	18 1/2	20 1/2	2.6	5.0
CA2630	2.5	2.6	18 1/2	22 1/2	2.8	5.4
CA2632	2.7	2.8	18 1/2	24 1/2	3.1	5.7
CA2634	3.0	3.1	18 1/2	26 1/2	3.4	6.1
CA2636	3.2	3.3	18 1/2	28 1/2	3.6	6.5
CA2638	3.4	3.5	18 1/2	30 1/2	3.9	6.8
CA2640	3.6	3.7	18 1/2	32 1/2	4.1	7.2
CA2642	3.8	4.0	18 1/2	34 1/2	4.4	7.5
CA2644	4.1	4.2	18 1/2	36 1/2	4.6	7.9
CA2648	4.5	4.7	18 1/2	40 1/2	5.2	8.6
CA2654	5.2	5.3	18 1/2	46 1/2	5.9	9.7
CA2660	5.8	6.0	18 1/2	52 1/2	6.7	10.8
CA2666	6.5	6.7	18 1/2	58 1/2	7.5	11.9
CA2672	7.2	7.4	18 1/2	64 1/2	8.2	13.0
CA2818	1.3	1.4	20 1/2	10 1/2	1.4	3.5
CA2820	1.6	1.6	20 1/2	12 1/2	1.7	3.8
CA2824	2.1	2.2	20 1/2	16 1/2	2.3	4.6
CA2828	2.6	2.7	20 1/2	20 1/2	2.9	5.4
CA2830	2.8	2.9	20 1/2	22 1/2	3.2	5.8
CA2832	3.1	3.2	20 1/2	24 1/2	3.4	6.2
CA2834	3.3	3.4	20 1/2	26 1/2	3.7	6.6
CA2836	3.6	3.7	20 1/2	28 1/2	4.0	7.0
CA2838	3.8	3.9	20 1/2	30 1/2	4.3	7.3
CA2840	4.1	4.2	20 1/2	32 1/2	4.6	7.7
CA2842	4.3	4.5	20 1/2	34 1/2	4.9	8.1
CA2844	4.6	4.7	20 1/2	36 1/2	5.1	8.5
CA2848	5.1	5.2	20 1/2	40 1/2	5.7	9.3
CA2854	5.8	6.0	20 1/2	46 1/2	6.6	10.5
CA2860	6.6	6.8	20 1/2	52 1/2	7.4	11.6
CA2866	7.3	7.5	20 1/2	58 1/2	8.3	12.8
CA2872	8.1	8.3	20 1/2	64 1/2	9.1	14.0
CA3018	1.5	1.5	22 1/2	10 1/2	1.6	3.7
CA3020	1.8	1.8	22 1/2	12 1/2	1.9	4.1
CA3024	2.3	2.4	22 1/2	16 1/2	2.5	5.0
CA3028	2.9	3.0	22 1/2	20 1/2	3.2	5.8
CA3030	3.2	3.2	22 1/2	22 1/2	3.5	6.2
CA3032	3.4	3.5	22 1/2	24 1/2	3.8	6.6
CA3034	3.7	3.8	22 1/2	26 1/2	4.1	7.0
CA3036	4.0	4.1	22 1/2	28 1/2	4.4	7.5
CA3038	4.3	4.4	22 1/2	30 1/2	4.7	7.9
CA3040	4.5	4.7	22 1/2	32 1/2	5.0	8.3
CA3042	4.8	5.0	22 1/2	34 1/2	5.3	8.7
CA3044	5.1	5.2	22 1/2	36 1/2	5.7	9.1
CA3048	5.6	5.8	22 1/2	40 1/2	6.3	10.0
CA3054	6.5	6.7	22 1/2	46 1/2	7.2	11.2
CA3060	7.3	7.5	22 1/2	52 1/2	8.2	12.5
CA3066	8.1	8.4	22 1/2	58 1/2	9.1	13.7
CA3072	9.0	9.2	22 1/2	64 1/2	10.0	15.0

Call Size	Vent Opening Area Standard Hinge (ft <sup>2</sup> )	Vent Opening Area Special Hinge (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CA3218	1.6	1.7	24 1/2	10 1/2	1.7	4.0
CA3220	1.9	2.0	24 1/2	12 1/2	2.1	4.4
CA3224	2.6	2.6	24 1/2	16 1/2	2.8	5.3
CA3228	3.2	3.3	24 1/2	20 1/2	3.4	6.2
CA3230	3.5	3.6	24 1/2	22 1/2	3.8	6.6
CA3232	3.8	3.9	24 1/2	24 1/2	4.1	7.1
CA3234	4.1	4.2	24 1/2	26 1/2	4.5	7.5
CA3236	4.4	4.5	24 1/2	28 1/2	4.8	8.0
CA3238	4.7	4.8	24 1/2	30 1/2	5.1	8.4
CA3240	5.0	5.1	24 1/2	32 1/2	5.5	8.8
CA3242	5.3	5.4	24 1/2	34 1/2	5.8	9.3
CA3244	5.6	5.8	24 1/2	36 1/2	6.2	9.7
CA3248	6.2	6.4	24 1/2	40 1/2	6.8	10.6
CA3254	7.1	7.3	24 1/2	46 1/2	7.9	12.0
CA3260	8.0	8.3	24 1/2	52 1/2	8.9	13.3
CA3266	9.0	9.2	24 1/2	58 1/2	9.9	14.6
CA3272	9.9	10.1	24 1/2	64 1/2	10.9	16.0
CA3418	1.8	1.8	26 1/2	10 1/2	1.9	4.2
CA3420	2.1	2.2	26 1/2	12 1/2	2.3	4.7
CA3424	2.8	2.9	26 1/2	16 1/2	3.0	5.6
CA3428	3.5	3.5	26 1/2	20 1/2	3.7	6.6
CA3430	3.8	3.9	26 1/2	22 1/2	4.1	7.0
CA3432	4.1	4.2	26 1/2	24 1/2	4.5	7.5
CA3434	4.5	4.6	26 1/2	26 1/2	4.8	8.0
CA3436	4.8	4.9	26 1/2	28 1/2	5.2	8.5
CA3438	5.1	5.2	26 1/2	30 1/2	5.6	8.9
CA3440	5.5	5.6	26 1/2	32 1/2	5.9	9.4
CA3442	5.8	5.9	26 1/2	34 1/2	6.3	9.9
CA3444	6.1	6.3	26 1/2	36 1/2	6.7	10.3
CA3448	6.8	6.9	26 1/2	40 1/2	7.4	11.3
CA3454	7.8	8.0	26 1/2	46 1/2	8.5	12.7
CA3460	8.8	9.0	26 1/2	52 1/2	9.6	14.1
CA3466	9.8	10.0	26 1/2	58 1/2	10.7	15.5
CA3472	10.8	11.0	26 1/2	64 1/2	11.8	17.0
CA3618	2.0	2.0	28 1/2	10 1/2	2.0	4.5
CA3620	2.3	2.4	28 1/2	12 1/2	2.4	5.0
CA3624	3.0	3.1	28 1/2	16 1/2	3.2	6.0
CA3628	3.8	3.8	28 1/2	20 1/2	4.0	7.0
CA3630	4.1	4.2	28 1/2	22 1/2	4.4	7.5
CA3632	4.5	4.6	28 1/2	24 1/2	4.8	8.0
CA3634	4.8	4.9	28 1/2	26 1/2	5.2	8.5
CA3636	5.2	5.3	28 1/2	28 1/2	5.6	9.0
CA3638	5.6	5.7	28 1/2	30 1/2	6.0	9.5
CA3640	5.9	6.0	28 1/2	32 1/2	6.4	10.0
CA3642	6.3	6.4	28 1/2	34 1/2	6.8	10.5
CA3644	6.6	6.8	28 1/2	36 1/2	7.2	11.0
CA3648	7.4	7.5	28 1/2	40 1/2	8.0	12.0
CA3654	8.4	8.6	28 1/2	46 1/2	9.2	13.5
CA3660	9.5	9.7	28 1/2	52 1/2	10.3	15.0
CA3666	10.6	10.8	28 1/2	58 1/2	11.5	16.5
CA3672	11.7	11.9	28 1/2	64 1/2	12.7	18.0

**Awning Window Thermal Performance**

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.24	0.22	0.42	59	Yes	-	NC	SC	S
Dual Pane Low-E (Cardinal 270)	0.27	0.23	0.42	55	Yes	-	-	SC	S
Dual Pane Clear	0.38	0.47	0.49	44	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.25	0.22	0.42	59	Yes	-	NC	SC	S
Dual Pane Low-E Tempered (Cardinal 270)	0.27	0.23	0.42	55	Yes	-	-	SC	S
Dual Pane Clear Tempered	0.38	0.47	0.49	43	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.24	0.37	0.46	60	Yes	N	NC	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.24	0.37	0.46	58	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.21	0.21	0.38	69	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.18	0.19	0.32	73	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.22	0.21	0.38	67	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.19	0.19	0.32	72	Yes	N	NC	SC	S
Triple Pane E7 (Cardinal 270)	0.21	0.21	0.38	69	Yes	N	NC	SC	S
Triple Pane E7 Tempered (Cardinal 270)	0.22	0.21	0.38	67	Yes	N	NC	SC	S
Triple Pane E7 Tempered (Cardinal 180)	0.23	0.36	0.43	64	Yes	N	NC	-	-

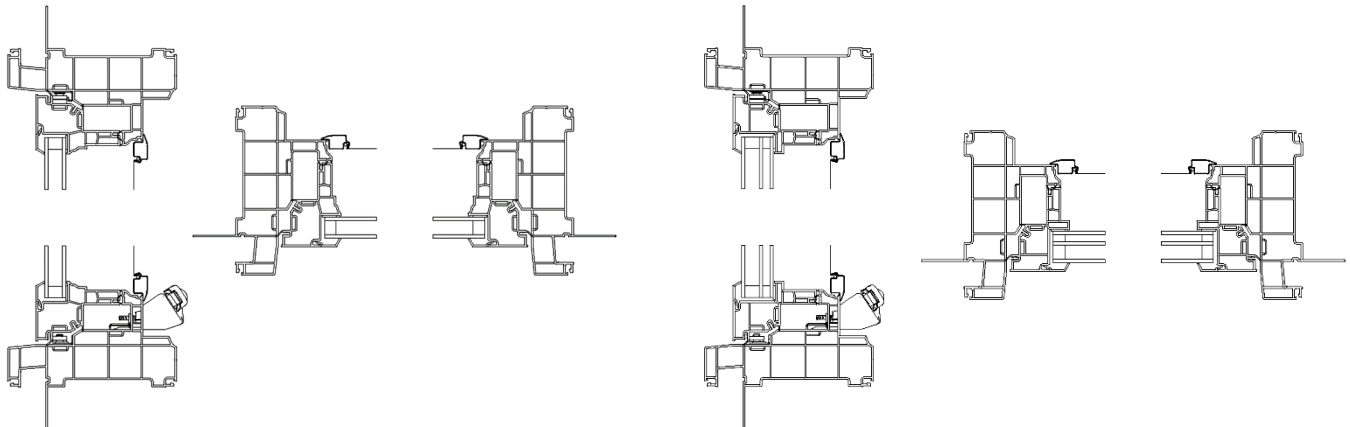
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.

























































































**Awning Window Structural Performance (Dual and Triple Pane Glazing)**

Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Awning - Vent	48 x 32	Single	PG80	LC
Awning - Vent	48 x 32	Single	PG45	CW
Awning - Vent	60 x 48	Single	PG40	LC

Detail Drawings:



For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

Rough Opening			20 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2
Frame Size			20	24	26	28	30	32	34	36
Call Size			20	24	26	28	30	32	34	36
18 1/2	18	18	 AW2018	 AW2418	 AW2618	 AW2818	 AW3018	 AW3218	 AW3418	 AW3618
20 1/2	20	20	 AW2020	 AW2420	 AW2620	 AW2820	 AW3020	 AW3220	 AW3420	 AW3620
24 1/2	24	24	 AW2024	 AW2424	 AW2624	 AW2824	 AW3024	 AW3224	 AW3424	 AW3624
28 1/2	28	28	 AW2028	 AW2428	 AW2628	 AW2828	 AW3028	 AW3228	 AW3428	 AW3628
30 1/2	30	30	 AW2030	 AW2430	 AW2630	 AW2830	 AW3030	 AW3230	 AW3430	 AW3630
32 1/2	32	32	 AW2032	 AW2432	 AW2632	 AW2832	 AW3032	 AW3232	 AW3432	 AW3632
36 1/2	36	36	 AW2036	 AW2436	 AW2636	 AW2836	 AW3036	 AW3236	 AW3436	 AW3636
40 1/2	40	40	 AW2040	 AW2440	 AW2640	 AW2840	 AW3040	 AW3240	 AW3440	 AW3640
42 1/2	42	42	 AW2042	 AW2442	 AW2642	 AW2842	 AW3042	 AW3242	 AW3442	 AW3642
44 1/2	44	44	 AW2044	 AW2444	 AW2644	 AW2844	 AW3044	 AW3244	 AW3444	 AW3644
48 1/2	48	48	 AW2048	 AW2448	 AW2648	 AW2848	 AW3048	 AW3248	 AW3448	 AW3648

Rough Opening	40 1/2	42 1/2	48 1/2	54 1/2	60 1/2
Frame Size	40	42	48	54	60
Call Size	40	42	48	54	60
18 1/2	18  AW4018	18  AW4218	18  AW4818	18  AW5418	18  AW6018
20 1/2	20  AW4020	20  AW4220	20  AW4820	20  AW5420	20  AW6020
24 1/2	24  AW4024	24  AW4224	24  AW4824	24  AW5424	24  AW6024
28 1/2	28  AW4028	28  AW4228	28  AW4828	28  AW5428	28  AW6028
30 1/2	30  AW4030	30  AW4230	30  AW4830	30  AW5430	30  AW6030
32 1/2	32  AW4032	32  AW4232	32  AW4832	32  AW5432	32  AW6032
36 1/2	34  AW4036	34  AW4236	34  AW4836	34  AW5436	34  AW6036
40 1/2	36  AW4040	36  AW4240	36  AW4840	36  AW5440	36  AW6040
42 1/2	38  AW4042	38  AW4242	38  AW4842	38  AW5442	38  AW6042
44 1/2	40  AW4044	40  AW4244	40  AW4844	40  AW5444	40  AW6044
48 1/2	42  AW4048	42  AW4248	42  AW4848	42  AW5448	42  AW6048

Rough Opening			20 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2
	Frame Size		20	24	26	28	30	32	34
		Call Size	20	24	26	28	30	32	34
18 1/2	18	18	AW2018	AW2418	AW2618	AW2818	AW3018	AW3218	AW3418
20 1/2	20	20	AW2020	AW2420	AW2620	AW2820	AW3020	AW3220	AW3420
24 1/2	24	24	AW2024	AW2424	AW2624	AW2824	AW3024	AW3224	AW3424
28 1/2	28	28	AW2028	AW2428	AW2628	AW2828	AW3028	AW3228	AW3428
30 1/2	30	30	AW2030	AW2430	AW2630	AW2830	AW3030	AW3230	AW3430
32 1/2	32	32	AW2032	AW2432	AW2632	AW2832	AW3032	AW3232	AW3432
36 1/2	36	36	AW2036	AW2436	AW2636	AW2836	AW3036	AW3236	AW3436
40 1/2	40	40	AW2040	AW2440	AW2640	AW2840	AW3040	AW3240	AW3440
42 1/2	42	42	AW2042	AW2442	AW2642	AW2842	AW3042	AW3242	AW3442
44 1/2	44	44	AW2044	AW2444	AW2644	AW2844	AW3044	AW3244	AW3444
48 1/2	48	48	AW2048	AW2448	AW2648	AW2848	AW3048	AW3248	AW3448

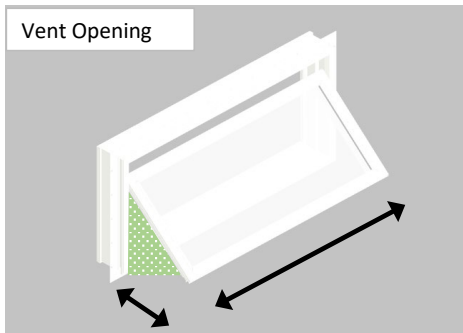
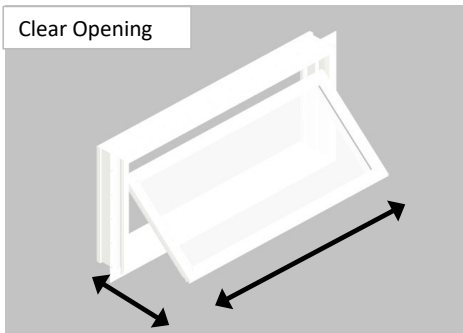
Rough Opening			36 1/2	40 1/2	42 1/2	48 1/2	54 1/2	60 1/2
	Frame Size		36	40	42	48	54	60
		Call Size	36	40	42	48	54	60
18 1/2	18	18	AW3618	AW4018	AW4218	AW4818	AW5418	AW6018
20 1/2	20	20	AW3620	AW4020	AW4220	AW4820	AW5420	AW6020
24 1/2	24	24	AW3624	AW4024	AW4224	AW4824	AW5424	AW6024
28 1/2	28	28	AW3628	AW4028	AW4228	AW4828	AW5428	AW6028
30 1/2	30	30	AW3630	AW4030	AW4230	AW4830	AW5430	AW6030
32 1/2	32	32	AW3632	AW4032	AW4232	AW4832	AW5432	AW6032
36 1/2	36	36	AW3636	AW4036	AW4236	AW4836	AW5436	AW6036
40 1/2	40	40	AW3640	AW4040	AW4240	AW4840	AW5440	AW6040
42 1/2	42	42	AW3642	AW4042	AW4242	AW4842	AW5442	AW6042
44 1/2	44	44	AW3644	AW4044	AW4244	AW4844	AW5444	AW6044
48 1/2	48	48	AW3648	AW4048	AW4248	AW4848	AW5448	AW6048

Call Size	Clear Opening Width	Clear Opening Depth	Clear Opening Area (ft <sup>2</sup> )	Vent Area ft <sup>2</sup>	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
AW2018	13 1/8	5 13/16	0.5	0.7	12 1/2	10 1/2	0.9	2.5
AW2020	13 1/8	5 13/16	0.5	0.8	12 1/2	12 1/2	1.0	2.7
AW2024	13 1/8	5 13/16	0.5	0.9	12 1/2	16 1/2	1.4	3.3
AW2028	13 1/8	5 13/16	0.5	1.0	12 1/2	20 1/2	1.7	3.8
AW2030	13 1/8	5 13/16	0.5	1.0	12 1/2	22 1/2	1.9	4.1
AW2032	13 1/8	5 13/16	0.5	1.1	12 1/2	24 1/2	2.1	4.4
AW2036	13 1/8	5 13/16	0.5	1.2	12 1/2	28 1/2	2.4	5.0
AW2040	13 1/8	5 13/16	0.5	1.3	12 1/2	32 1/2	2.8	5.5
AW2042	13 1/8	5 13/16	0.5	1.3	12 1/2	34 1/2	2.9	5.8
AW2044	13 1/8	5 13/16	0.5	1.4	12 1/2	36 1/2	3.1	6.1
AW2048	13 1/8	5 13/16	0.5	1.5	12 1/2	40 1/2	3.5	6.6
AW2418	17 1/8	10 5/8	1.2	1.3	16 1/2	10 1/2	1.2	3.0
AW2420	17 1/8	10 5/8	1.2	1.6	16 1/2	12 1/2	1.4	3.3
AW2424	17 1/8	10 5/8	1.2	1.9	16 1/2	16 1/2	1.8	4.0
AW2428	17 1/8	10 5/8	1.2	2.2	16 1/2	20 1/2	2.3	4.6
AW2430	17 1/8	10 5/8	1.2	2.3	16 1/2	22 1/2	2.5	5.0
AW2432	17 1/8	10 5/8	1.2	2.4	16 1/2	24 1/2	2.8	5.3
AW2436	17 1/8	10 5/8	1.2	2.7	16 1/2	28 1/2	3.2	6.0
AW2440	17 1/8	10 5/8	1.2	2.9	16 1/2	32 1/2	3.7	6.6
AW2442	17 1/8	10 5/8	1.2	3.0	16 1/2	34 1/2	3.9	7.0
AW2444	17 1/8	10 5/8	1.2	3.1	16 1/2	36 1/2	4.1	7.3
AW2448	17 1/8	10 5/8	1.2	3.4	16 1/2	40 1/2	4.6	8.0
AW2618	19 1/8	10 5/8	1.4	1.5	18 1/2	10 1/2	1.3	3.2
AW2620	19 1/8	10 5/8	1.4	1.8	18 1/2	12 1/2	1.6	3.6
AW2624	19 1/8	10 5/8	1.4	2.1	18 1/2	16 1/2	2.1	4.3
AW2628	19 1/8	10 5/8	1.4	2.4	18 1/2	20 1/2	2.6	5.0
AW2630	19 1/8	10 5/8	1.4	2.5	18 1/2	22 1/2	2.8	5.4
AW2632	19 1/8	10 5/8	1.4	2.6	18 1/2	24 1/2	3.1	5.7
AW2636	19 1/8	10 5/8	1.4	2.9	18 1/2	28 1/2	3.6	6.5
AW2640	19 1/8	10 5/8	1.4	3.1	18 1/2	32 1/2	4.1	7.2
AW2642	19 1/8	10 5/8	1.4	3.2	18 1/2	34 1/2	4.4	7.5
AW2644	19 1/8	10 5/8	1.4	3.3	18 1/2	36 1/2	4.6	7.9
AW2648	19 1/8	10 5/8	1.4	3.6	18 1/2	40 1/2	5.2	8.6
AW2818	21 1/8	10 5/8	1.5	1.6	20 1/2	10 1/2	1.4	3.5
AW2820	21 1/8	10 5/8	1.5	1.9	20 1/2	12 1/2	1.7	3.8
AW2824	21 1/8	10 5/8	1.5	2.2	20 1/2	16 1/2	2.3	4.6
AW2828	21 1/8	10 5/8	1.5	2.5	20 1/2	20 1/2	2.9	5.4
AW2830	21 1/8	10 5/8	1.5	2.6	20 1/2	22 1/2	3.2	5.8
AW2832	21 1/8	10 5/8	1.5	2.7	20 1/2	24 1/2	3.4	6.2
AW2836	21 1/8	10 5/8	1.5	3.0	20 1/2	28 1/2	4.0	7.0
AW2840	21 1/8	10 5/8	1.5	3.2	20 1/2	32 1/2	4.6	7.7
AW2842	21 1/8	10 5/8	1.5	3.3	20 1/2	34 1/2	4.9	8.1
AW2844	21 1/8	10 5/8	1.5	3.4	20 1/2	36 1/2	5.1	8.5
AW2848	21 1/8	10 5/8	1.5	3.7	20 1/2	40 1/2	5.7	9.3

Call Size	Clear Opening Width	Clear Opening Depth	Clear Opening Area (ft <sup>2</sup> )	Vent Area ft <sup>2</sup>	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
AW3018	23 1/8	10 5/8	1.7	1.8	22 1/2	10 1/2	1.6	3.7
AW3020	23 1/8	10 5/8	1.7	2.1	22 1/2	12 1/2	1.9	4.1
AW3024	23 1/8	10 5/8	1.7	2.4	22 1/2	16 1/2	2.5	5.0
AW3028	23 1/8	10 5/8	1.7	2.7	22 1/2	20 1/2	3.2	5.8
AW3030	23 1/8	10 5/8	1.7	2.8	22 1/2	22 1/2	3.5	6.2
AW3032	23 1/8	10 5/8	1.7	2.9	22 1/2	24 1/2	3.8	6.6
AW3036	23 1/8	10 5/8	1.7	3.2	22 1/2	28 1/2	4.4	7.5
AW3040	23 1/8	10 5/8	1.7	3.4	22 1/2	32 1/2	5.0	8.3
AW3042	23 1/8	10 5/8	1.7	3.5	22 1/2	34 1/2	5.3	8.7
AW3044	23 1/8	10 5/8	1.7	3.6	22 1/2	36 1/2	5.7	9.1
AW3048	23 1/8	10 5/8	1.7	3.9	22 1/2	40 1/2	6.3	10.0
AW3218	25 1/8	10 5/8	1.8	1.9	24 1/2	10 1/2	1.7	4.0
AW3220	25 1/8	10 5/8	1.8	2.2	24 1/2	12 1/2	2.1	4.4
AW3224	25 1/8	10 5/8	1.8	2.5	24 1/2	16 1/2	2.8	5.3
AW3228	25 1/8	10 5/8	1.8	2.8	24 1/2	20 1/2	3.4	6.2
AW3230	25 1/8	10 5/8	1.8	2.9	24 1/2	22 1/2	3.8	6.6
AW3232	25 1/8	10 5/8	1.8	3.0	24 1/2	24 1/2	4.1	7.1
AW3236	25 1/8	10 5/8	1.8	3.3	24 1/2	28 1/2	4.8	8.0
AW3240	25 1/8	10 5/8	1.8	3.5	24 1/2	32 1/2	5.5	8.8
AW3242	25 1/8	10 5/8	1.8	3.6	24 1/2	34 1/2	5.8	9.3
AW3244	25 1/8	10 5/8	1.8	3.7	24 1/2	36 1/2	6.2	9.7
AW3248	25 1/8	10 5/8	1.8	4.0	24 1/2	40 1/2	6.8	10.6
AW3418	27 1/8	10 5/8	2.0	2.1	26 1/2	10 1/2	1.9	4.2
AW3420	27 1/8	10 5/8	2.0	2.4	26 1/2	12 1/2	2.3	4.7
AW3424	27 1/8	10 5/8	2.0	2.7	26 1/2	16 1/2	3.0	5.6
AW3428	27 1/8	10 5/8	2.0	3.0	26 1/2	20 1/2	3.7	6.6
AW3430	27 1/8	10 5/8	2.0	3.1	26 1/2	22 1/2	4.1	7.0
AW3432	27 1/8	10 5/8	2.0	3.2	26 1/2	24 1/2	4.5	7.5
AW3436	27 1/8	10 5/8	2.0	3.5	26 1/2	28 1/2	5.2	8.5
AW3440	27 1/8	10 5/8	2.0	3.7	26 1/2	32 1/2	5.9	9.4
AW3442	27 1/8	10 5/8	2.0	3.8	26 1/2	34 1/2	6.3	9.9
AW3444	27 1/8	10 5/8	2.0	3.9	26 1/2	36 1/2	6.7	10.3
AW3448	27 1/8	10 5/8	2.0	4.2	26 1/2	40 1/2	7.4	11.3
AW3618	29 1/8	10 5/8	2.1	2.2	28 1/2	10 1/2	2.0	4.5
AW3620	29 1/8	10 5/8	2.1	2.5	28 1/2	12 1/2	2.4	5.0
AW3624	29 1/8	10 5/8	2.1	2.8	28 1/2	16 1/2	3.2	6.0
AW3628	29 1/8	10 5/8	2.1	3.1	28 1/2	20 1/2	4.0	7.0
AW3630	29 1/8	10 5/8	2.1	3.2	28 1/2	22 1/2	4.4	7.5
AW3632	29 1/8	10 5/8	2.1	3.3	28 1/2	24 1/2	4.8	8.0
AW3636	29 1/8	10 5/8	2.1	3.6	28 1/2	28 1/2	5.6	9.0
AW3640	29 1/8	10 5/8	2.1	3.8	28 1/2	32 1/2	6.4	10.0
AW3642	29 1/8	10 5/8	2.1	3.9	28 1/2	34 1/2	6.8	10.5
AW3644	29 1/8	10 5/8	2.1	4.0	28 1/2	36 1/2	7.2	11.0
AW3648	29 1/8	10 5/8	2.1	4.3	28 1/2	40 1/2	8.0	12.0

Call Size	Clear Opening Width	Clear Opening Depth	Clear Opening Area (ft <sup>2</sup> )	Vent Area ft <sup>2</sup>	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
AW4018	33 1/8	10 5/8	2.4	2.5	32 1/2	10 1/2	2.3	5.0
AW4020	33 1/8	10 5/8	2.4	2.8	32 1/2	12 1/2	2.8	5.5
AW4024	33 1/8	10 5/8	2.4	3.1	32 1/2	16 1/2	3.7	6.6
AW4028	33 1/8	10 5/8	2.4	3.4	32 1/2	20 1/2	4.6	7.7
AW4030	33 1/8	10 5/8	2.4	3.5	32 1/2	22 1/2	5.0	8.3
AW4032	33 1/8	10 5/8	2.4	3.6	32 1/2	24 1/2	5.5	8.8
AW4036	33 1/8	10 5/8	2.4	3.9	32 1/2	28 1/2	6.4	10.0
AW4040	33 1/8	10 5/8	2.4	4.1	32 1/2	32 1/2	7.3	11.1
AW4042	33 1/8	10 5/8	2.4	4.2	32 1/2	34 1/2	7.7	11.6
AW4044	33 1/8	10 5/8	2.4	4.3	32 1/2	36 1/2	8.2	12.2
AW4048	33 1/8	10 5/8	2.4	4.6	32 1/2	40 1/2	9.1	13.3
AW4218	35 1/8	10 5/8	2.5	2.6	34 1/2	10 1/2	2.5	5.2
AW4220	35 1/8	10 5/8	2.5	2.9	34 1/2	12 1/2	2.9	5.8
AW4224	35 1/8	10 5/8	2.5	3.2	34 1/2	16 1/2	3.9	7.0
AW4228	35 1/8	10 5/8	2.5	3.5	34 1/2	20 1/2	4.9	8.1
AW4230	35 1/8	10 5/8	2.5	3.6	34 1/2	22 1/2	5.3	8.7
AW4232	35 1/8	10 5/8	2.5	3.7	34 1/2	24 1/2	5.8	9.3
AW4236	35 1/8	10 5/8	2.5	4.0	34 1/2	28 1/2	6.8	10.5
AW4240	35 1/8	10 5/8	2.5	4.2	34 1/2	32 1/2	7.7	11.6
AW4242	35 1/8	10 5/8	2.5	4.3	34 1/2	34 1/2	8.2	12.2
AW4244	35 1/8	10 5/8	2.5	4.4	34 1/2	36 1/2	8.7	12.8
AW4248	35 1/8	10 5/8	2.5	4.7	34 1/2	40 1/2	9.7	14.0
AW4818	41 1/8	10 5/8	3.0	3.1	40 1/2	10 1/2	2.9	6.0
AW4820	41 1/8	10 5/8	3.0	3.4	40 1/2	12 1/2	3.5	6.6
AW4824	41 1/8	10 5/8	3.0	3.7	40 1/2	16 1/2	4.6	8.0
AW4828	41 1/8	10 5/8	3.0	4.0	40 1/2	20 1/2	5.7	9.3
AW4830	41 1/8	10 5/8	3.0	4.1	40 1/2	22 1/2	6.3	10.0
AW4832	41 1/8	10 5/8	3.0	4.2	40 1/2	24 1/2	6.8	10.6
AW4836	41 1/8	10 5/8	3.0	4.5	40 1/2	28 1/2	8.0	12.0
AW4840	41 1/8	10 5/8	3.0	4.7	40 1/2	32 1/2	9.1	13.3
AW4842	41 1/8	10 5/8	3.0	4.8	40 1/2	34 1/2	9.7	14.0
AW4844	41 1/8	10 5/8	3.0	4.9	40 1/2	36 1/2	10.2	14.6
AW4848	41 1/8	10 5/8	3.0	5.2	40 1/2	40 1/2	11.3	16.0
AW5418	47 1/8	10 5/8	3.4	3.5	46 1/2	10 1/2	3.3	6.7
AW5420	47 1/8	10 5/8	3.4	3.8	46 1/2	12 1/2	4.0	7.5
AW5424	47 1/8	10 5/8	3.4	4.1	46 1/2	16 1/2	5.3	9.0
AW5428	47 1/8	10 5/8	3.4	4.4	46 1/2	20 1/2	6.6	10.5
AW5430	47 1/8	10 5/8	3.4	4.5	46 1/2	22 1/2	7.2	11.2
AW5432	47 1/8	10 5/8	3.4	4.6	46 1/2	24 1/2	7.9	12.0
AW5436	47 1/8	10 5/8	3.4	4.9	46 1/2	28 1/2	9.2	13.5
AW5440	47 1/8	10 5/8	3.4	5.1	46 1/2	32 1/2	10.4	15.0
AW5442	47 1/8	10 5/8	3.4	5.2	46 1/2	34 1/2	11.1	15.7
AW5444	47 1/8	10 5/8	3.4	5.3	46 1/2	36 1/2	11.7	16.5
AW5448	47 1/8	10 5/8	3.4	5.6	46 1/2	40 1/2	13.0	18.0

Call Size	Clear Opening Width	Clear Opening Depth	Clear Opening Area (ft <sup>2</sup> )	Vent Area ft <sup>2</sup>	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
AW6018	53 1/8	10 5/8	3.9	4.0	52 1/2	10 1/2	3.8	7.5
AW6020	53 1/8	10 5/8	3.9	4.3	52 1/2	12 1/2	4.5	8.3
AW6024	53 1/8	10 5/8	3.9	4.6	52 1/2	16 1/2	6.0	10.0
AW6028	53 1/8	10 5/8	3.9	4.9	52 1/2	20 1/2	7.4	11.6
AW6030	53 1/8	10 5/8	3.9	5.0	52 1/2	22 1/2	8.2	12.5
AW6032	53 1/8	10 5/8	3.9	5.1	52 1/2	24 1/2	8.9	13.3
AW6036	53 1/8	10 5/8	3.9	5.4	52 1/2	28 1/2	10.3	15.0
AW6040	53 1/8	10 5/8	3.9	5.6	52 1/2	32 1/2	11.8	16.6
AW6042	53 1/8	10 5/8	3.9	5.7	52 1/2	34 1/2	12.5	17.5
AW6044	53 1/8	10 5/8	3.9	5.8	52 1/2	36 1/2	13.3	18.3
AW6048	53 1/8	10 5/8	3.9	6.1	52 1/2	40 1/2	14.7	20.0



**Casement/Awning Picture Window Thermal Performance**

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E (Cardinal 270)	0.28	0.28	0.51	57	Yes	-	-	-	-
Dual Pane Clear	0.41	0.58	0.60	44	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.25	0.27	0.51	60	Yes	-	NC	-	-
Dual Pane Low-E Tempered (Cardinal 270)	0.28	0.28	0.51	56	Yes	-	-	-	-
Dual Pane Clear Tempered	0.41	0.58	0.60	44	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.25	0.46	0.56	61	Yes	N	-	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.25	0.46	0.56	60	Yes	N	-	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.20	0.25	0.47	68	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.18	0.23	0.40	72	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.21	0.25	0.47	66	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.17	0.23	0.40	71	Yes	N	NC	SC	S
Triple Pane E7 (Cardinal 270)	0.20	0.25	0.47	70	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 270)	0.21	0.25	0.47	66	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 180)	0.22	0.44	0.53	65	Yes	N	-	-	-

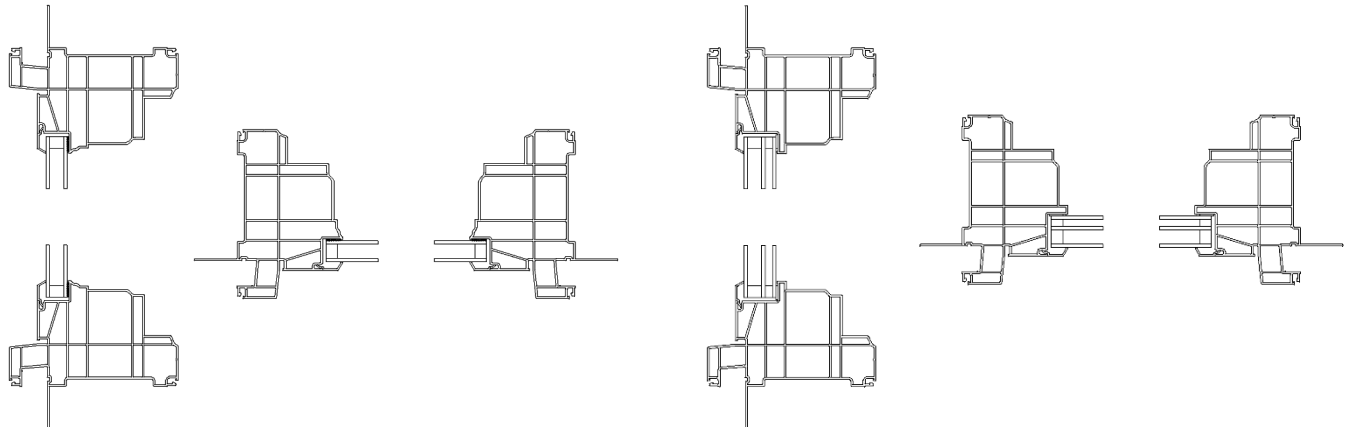
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.




































































































**Casement/Awning Picture Window Structural Performance**


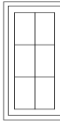
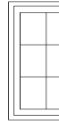






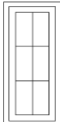
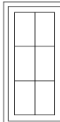
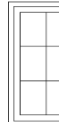






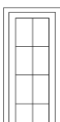
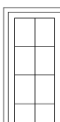
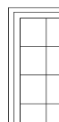







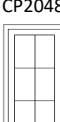
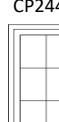



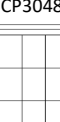








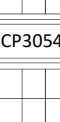








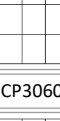


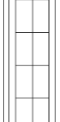
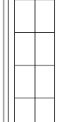
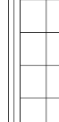

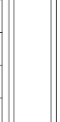
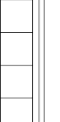


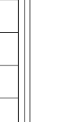
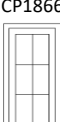
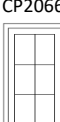
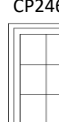



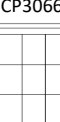

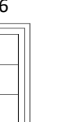
Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Casement/Awning Picture (Dual Pane)	60 x 60	Single	PG65	CW
Casement/Awning Picture (Dual Pane)	72 x 72	Single	PG50	LC
Casement/Awning Picture (Dual Pane)	72 x 84	Single	PG50	LC
Casement/Awning Picture (Dual Pane)	36 x 82	Single	PG75	LC
Casement/Awning Picture (Triple Pane)	60 x 60	Single	PG70	LC
Casement/Awning Picture (Triple Pane)	72 x 72	Single	PG60	LC
Casement/Awning Picture (Triple Pane)	36 x 82	Single	PG80	LC

Detail Drawings:









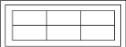

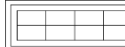

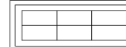
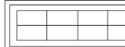
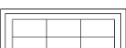

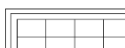
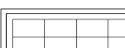

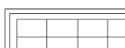
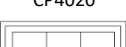
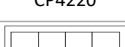
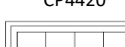
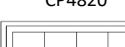
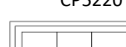
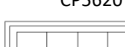
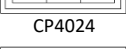
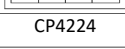
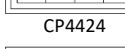
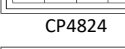
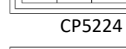
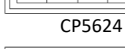




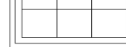







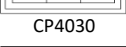
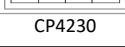
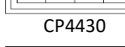
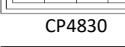
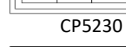
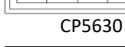






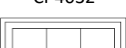
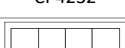
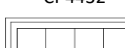
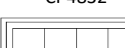
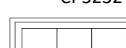
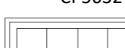
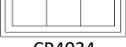
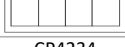
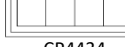
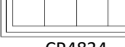


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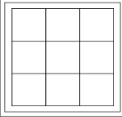
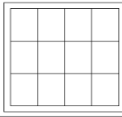
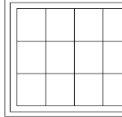
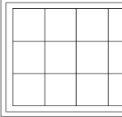
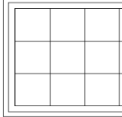
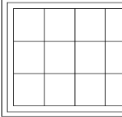
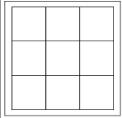
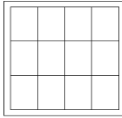
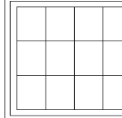
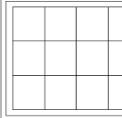
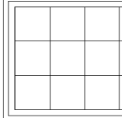
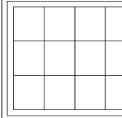
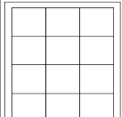
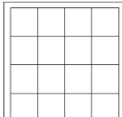
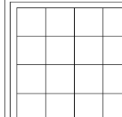
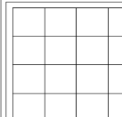
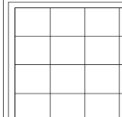
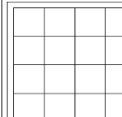
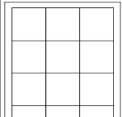
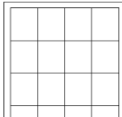
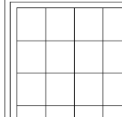
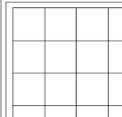
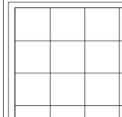
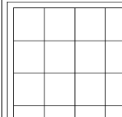
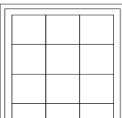
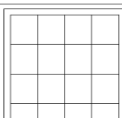
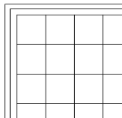
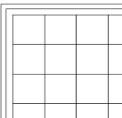
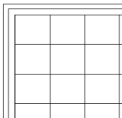
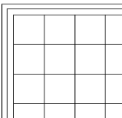
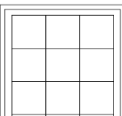
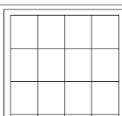
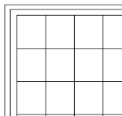
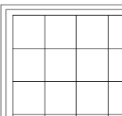
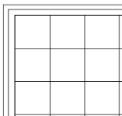
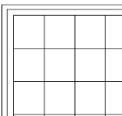
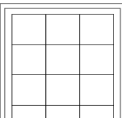
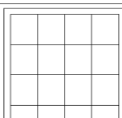
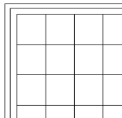
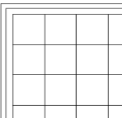
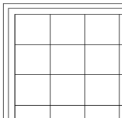
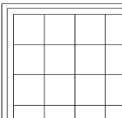
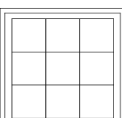
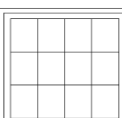
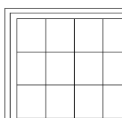
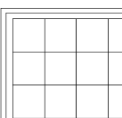
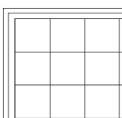
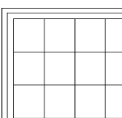
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18 1/2	18	18	 CP1818	 CP2018	 CP2418	 CP2618	 CP2818	 CP3018	 CP3218	 CP3418	 CP3618
20 1/2	20	20	 CP1820	 CP2020	 CP2420	 CP2620	 CP2820	 CP3020	 CP3220	 CP3420	 CP3620
24 1/2	24	24	 CP1824	 CP2024	 CP2424	 CP2624	 CP2824	 CP3024	 CP3224	 CP3424	 CP3624
28 1/2	28	28	 CP1828	 CP2028	 CP2428	 CP2628	 CP2828	 CP3028	 CP3228	 CP3428	 CP3628
30 1/2	30	30	 CP1830	 CP2030	 CP2430	 CP2630	 CP2830	 CP3030	 CP3230	 CP3430	 CP3630
32 1/2	32	32	 CP1832	 CP2032	 CP2432	 CP2632	 CP2832	 CP3032	 CP3232	 CP3432	 CP3632
34 1/2	34	34	 CP1834	 CP2034	 CP2434	 CP2634	 CP2834	 CP3034	 CP3234	 CP3434	 CP3634
36 1/2	36	36	 CP1836	 CP2036	 CP2436	 CP2636	 CP2836	 CP3036	 CP3236	 CP3436	 CP3636
38 1/2	38	38	 CP1838	 CP2038	 CP2438	 CP2638	 CP2838	 CP3038	 CP3238	 CP3438	 CP3638
40 1/2	40	40	 CP1840	 CP2040	 CP2440	 CP2640	 CP2840	 CP3040	 CP3240	 CP3440	 CP3640

Rough Opening	18 1/2	20 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2		
Frame Size	18	20	24	26	28	30	32	34	36		
Call Size	18	20	24	26	28	30	32	34	36		
42 1/2	42	42									
			CP1842	CP2042	CP2442	CP2642	CP2842	CP3042	CP3242	CP3442	CP3642
44 1/2	44	44									
			CP1844	CP2044	CP2444	CP2644	CP2844	CP3044	CP3244	CP3444	CP3644
48 1/2	48	48									
			CP1848	CP2048	CP2448	CP2648	CP2848	CP3048	CP3248	CP3448	CP3648
54 1/2	54	54									
			CP1854	CP2054	CP2454	CP2654	CP2854	CP3054	CP3254	CP3454	CP3654
60 1/2	60	60									
			CP1860	CP2060	CP2460	CP2660	CP2860	CP3060	CP3260	CP3460	CP3660
66 1/2	66	66									
			CP1866	CP2066	CP2466	CP2666	CP2866	CP3066	CP3266	CP3466	CP3666
72 1/2	72	72									
			CP1872	CP2072	CP2472	CP2672	CP2872	CP3072	CP3272	CP3472	CP3672
78 1/2	78	78									
			CP1878	CP2078	CP2478	CP2678	CP2878	CP3078	CP3278	CP3478	CP3678

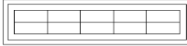

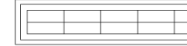


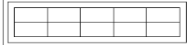
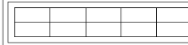
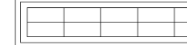
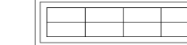


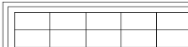
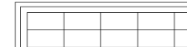

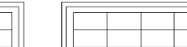





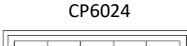
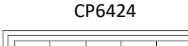
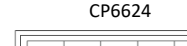



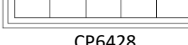

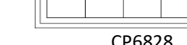






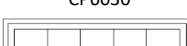
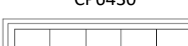
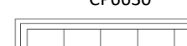


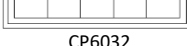
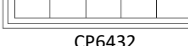








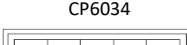
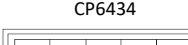
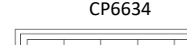


Maximum frame height for triple pane is 72"

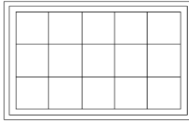
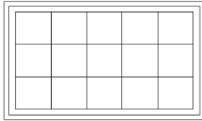
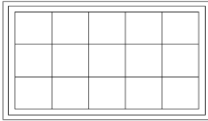
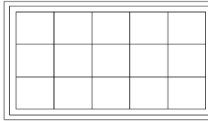
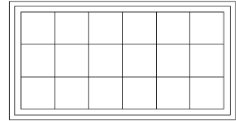
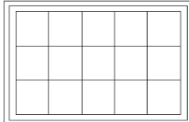
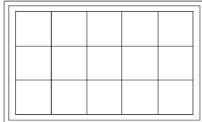
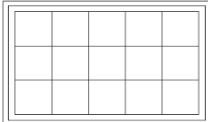
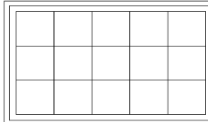
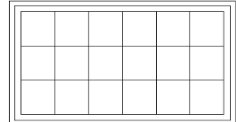
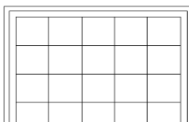
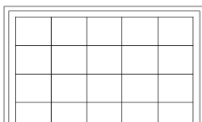
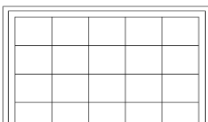
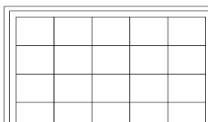
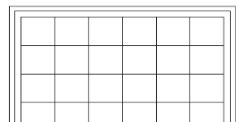
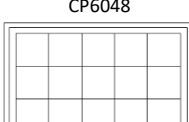
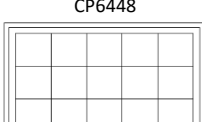
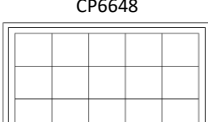
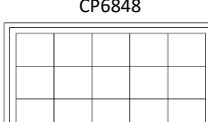
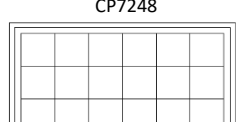
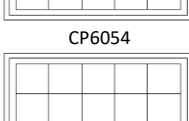
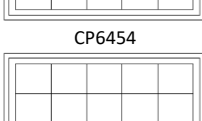
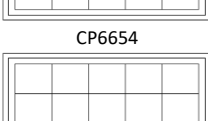
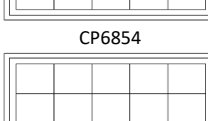
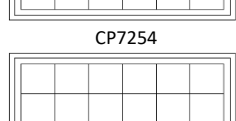
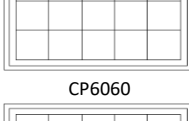
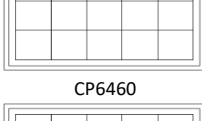
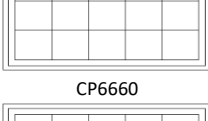
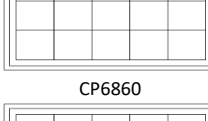
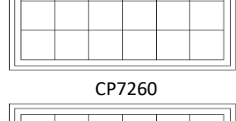



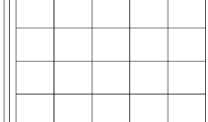
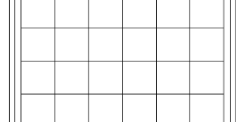
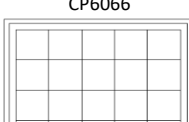
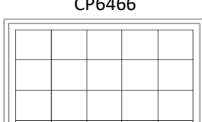
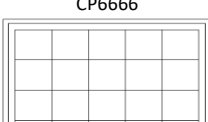
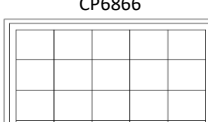
### Casement/Awning Picture

Rough Opening	40 1/2	42 1/2	44 1/2	48 1/2	52 1/2	56 1/2
Frame Size	40	42	44	48	52	56
Call Size	40	42	44	48	52	56
16 1/2	16  CP4016	16  CP4216	16  CP4416	16  CP4816	16  CP5216	16  CP5616
18 1/2	18  CP4018	18  CP4218	18  CP4418	18  CP4818	18  CP5218	18  CP5618
20 1/2	20  CP4020	20  CP4220	20  CP4420	20  CP4820	20  CP5220	20  CP5620
24 1/2	24  CP4024	24  CP4224	24  CP4424	24  CP4824	24  CP5224	24  CP5624
28 1/2	28  CP4028	28  CP4228	28  CP4428	28  CP4828	28  CP5228	28  CP5628
30 1/2	30  CP4030	30  CP4230	30  CP4430	30  CP4830	30  CP5230	30  CP5630
32 1/2	32  CP4032	32  CP4232	32  CP4432	32  CP4832	32  CP5232	32  CP5632
34 1/2	34  CP4034	34  CP4234	34  CP4434	34  CP4834	34  CP5234	34  CP5634
36 1/2	36  CP4036	36  CP4236	36  CP4436	36  CP4836	36  CP5236	36  CP5636
38 1/2	38  CP4038	38  CP4238	38  CP4438	38  CP4838	38  CP5238	38  CP5638
40 1/2	40  CP4040	40  CP4240	40  CP4440	40  CP4840	40  CP5240	40  CP5640

Rough Opening	40 1/2	42 1/2	44 1/2	48 1/2	52 1/2	56 1/2
Frame Size	40	42	44	48	52	56
Call Size	40	42	44	48	52	56
42 1/2	 CP4042	 CP4242	 CP4442	 CP4842	 CP5242	 CP5642
44 1/2	 CP4044	 CP4244	 CP4444	 CP4844	 CP5244	 CP5644
48 1/2	 CP4048	 CP4248	 CP4448	 CP4848	 CP5248	 CP5648
54 1/2	 CP4054	 CP4254	 CP4454	 CP4854	 CP5254	 CP5654
60 1/2	 CP4060	 CP4260	 CP4460	 CP4860	 CP5260	 CP5660
66 1/2	 CP4066	 CP4266	 CP4466	 CP4866	 CP5266	 CP5666
72 1/2	 CP4072	 CP4272	 CP4472	 CP4872	 CP5272	 CP5672
78 1/2	 CP4078	 CP4278	 CP4478	 CP4878	 CP5278	 CP5678

Maximum frame height for triple pane is 72"

Rough Opening	60 1/2	64 1/2	66 1/2	68 1/2	72 1/2
Frame Size	60	64	66	68	72
Call Size	60	64	66	68	72
16 1/2	16  CP6016	16  CP6416	16  CP6616	16  CP6816	16  CP7216
18 1/2	18  CP6018	18  CP6418	18  CP6618	18  CP6818	18  CP7218
20 1/2	20  CP6020	20  CP6420	20  CP6620	20  CP6820	20  CP7220
24 1/2	24  CP6024	24  CP6424	24  CP6624	24  CP6824	24  CP7224
28 1/2	28  CP6028	28  CP6428	28  CP6628	28  CP6828	28  CP7228
30 1/2	30  CP6030	30  CP6430	30  CP6630	30  CP6830	30  CP7230
32 1/2	32  CP6032	32  CP6432	32  CP6632	32  CP6832	32  CP7232
34 1/2	34  CP6034	34  CP6434	34  CP6634	34  CP6834	34  CP7234
36 1/2	36  CP6036	36  CP6436	36  CP6636	36  CP6836	36  CP7236
38 1/2	38  CP6038	38  CP6438	38  CP6638	38  CP6838	38  CP7238
40 1/2	40  CP6040	40  CP6440	40  CP6640	40  CP6840	40  CP7240

Rough Opening	60 1/2	64 1/2	66 1/2	68 1/2	72 1/2
Frame Size	60	64	66	68	72
Call Size	60	64	66	68	72
42 1/2	42  CP6042	42  CP6442	42  CP6642	42  CP6842	42  CP7242
44 1/2	44  CP6044	44  CP6444	44  CP6644	44  CP6844	44  CP7244
48 1/2	48  CP6048	48  CP6448	48  CP6648	48  CP6848	48  CP7248
54 1/2	54  CP6054	54  CP6454	54  CP6654	54  CP6854	54  CP7254
60 1/2	60  CP6060	60  CP6460	60  CP6660	60  CP6860	60  CP7260
66 1/2	66  CP6066	66  CP6466	66  CP6666	66  CP6866	66  CP7266
72 1/2	72  CP6072	72  CP6472	72  CP6672	72  CP6872	72  CP7272
78 1/2	78  CP6078	78  CP6478	78  CP6678	78  CP6878	

*Maximum frame height for triple pane is 72"*

Rough Opening			18 1/2	20 1/2	24 1/2	26 1/2	28 1/2	30 1/2	32 1/2	34 1/2	36 1/2	40 1/2
	Frame Size		18	20	24	26	28	30	32	34	36	40
		Call Size	18	20	24	26	28	30	32	34	36	40
16 1/2	16	16	CP1816	CP2016	CP2416	CP2616	CP2816	CP3016	CP3216	CP3416	CP3616	CP4016
18 1/2	18	18	CP1818	CP2018	CP2418	CP2618	CP2818	CP3018	CP3218	CP3418	CP3618	CP4018
20 1/2	20	20	CP1820	CP2020	CP2420	CP2620	CP2820	CP3020	CP3220	CP3420	CP3620	CP4020
24 1/2	24	24	CP1824	CP2024	CP2424	CP2624	CP2824	CP3024	CP3224	CP3424	CP3624	CP4024
28 1/2	28	28	CP1828	CP2028	CP2428	CP2628	CP2828	CP3028	CP3228	CP3428	CP3628	CP4028
30 1/2	30	30	CP1830	CP2030	CP2430	CP2630	CP2830	CP3030	CP3230	CP3430	CP3630	CP4030
32 1/2	32	32	CP1832	CP2032	CP2432	CP2632	CP2832	CP3032	CP3232	CP3432	CP3632	CP4032
34 1/2	34	34	CP1834	CP2034	CP2434	CP2634	CP2834	CP3034	CP3234	CP3434	CP3634	CP4034
36 1/2	36	36	CP1836	CP2036	CP2436	CP2636	CP2836	CP3036	CP3236	CP3436	CP3636	CP4036
38 1/2	38	38	CP1838	CP2038	CP2438	CP2638	CP2838	CP3038	CP3238	CP3438	CP3638	CP4038
40 1/2	40	40	CP1840	CP2040	CP2440	CP2640	CP2840	CP3040	CP3240	CP3440	CP3640	CP4040
42 1/2	42	42	CP1842	CP2042	CP2442	CP2642	CP2842	CP3042	CP3242	CP3442	CP3642	CP4042
44 1/2	44	44	CP1844	CP2044	CP2444	CP2644	CP2844	CP3044	CP3244	CP3444	CP3644	CP4044
48 1/2	48	48	CP1848	CP2048	CP2448	CP2648	CP2848	CP3048	CP3248	CP3448	CP3648	CP4048
54 1/2	54	54	CP1854	CP2054	CP2454	CP2654	CP2854	CP3054	CP3254	CP3454	CP3654	CP4054
60 1/2	60	60	CP1860	CP2060	CP2460	CP2660	CP2860	CP3060	CP3260	CP3460	CP3660	CP4060
66 1/2	66	66	CP1866	CP2066	CP2466	CP2666	CP2866	CP3066	CP3266	CP3466	CP3666	CP4066
72 1/2	72	72	CP1872	CP2072	CP2472	CP2672	CP2872	CP3072	CP3272	CP3472	CP3672	CP4072
78 1/2	78	78	CP1878	CP2078	CP2478	CP2678	CP2878	CP3078	CP3278	CP3478	CP3678	CP4078

*Maximum Frame Height for triple pane glass is 72"*

Rough Opening			42 1/2	44 1/2	48 1/2	52 1/2	56 1/2	60 1/2	64 1/2	66 1/2	68 1/2	72 1/2
	Frame Size		42	44	48	52	56	60	64	66	68	72
		Call Size	42	44	48	52	56	60	64	66	68	72
16 1/2	16	16	CP4216	CP4416	CP4816	CP5216	CP5616	CP6016	CP6416	CP6616	CP6816	CP7216
18 1/2	18	18	CP4218	CP4418	CP4818	CP5218	CP5618	CP6018	CP6418	CP6618	CP6818	CP7218
20 1/2	20	20	CP4220	CP4420	CP4820	CP5220	CP5620	CP6020	CP6420	CP6620	CP6820	CP7220
24 1/2	24	24	CP4224	CP4424	CP4824	CP5224	CP5624	CP6024	CP6424	CP6624	CP6824	CP7224
28 1/2	28	28	CP4228	CP4428	CP4828	CP5228	CP5628	CP6028	CP6428	CP6628	CP6828	CP7228
30 1/2	30	30	CP4230	CP4430	CP4830	CP5230	CP5630	CP6030	CP6430	CP6630	CP6830	CP7230
32 1/2	32	32	CP4232	CP4432	CP4832	CP5232	CP5632	CP6032	CP6432	CP6632	CP6832	CP7232
34 1/2	34	34	CP4234	CP4434	CP4834	CP5234	CP5634	CP6034	CP6434	CP6634	CP6834	CP7234
36 1/2	36	36	CP4236	CP4436	CP4836	CP5236	CP5636	CP6036	CP6436	CP6636	CP6836	CP7236
38 1/2	38	38	CP4238	CP4438	CP4838	CP5238	CP5638	CP6038	CP6438	CP6638	CP6838	CP7238
40 1/2	40	40	CP4240	CP4440	CP4840	CP5240	CP5640	CP6040	CP6440	CP6640	CP6840	CP7240
42 1/2	42	42	CP4242	CP4442	CP4842	CP5242	CP5642	CP6042	CP6442	CP6642	CP6842	CP7242
44 1/2	44	44	CP4244	CP4444	CP4844	CP5244	CP5644	CP6044	CP6444	CP6644	CP6844	CP7244
48 1/2	48	48	CP4248	CP4448	CP4848	CP5248	CP5648	CP6048	CP6448	CP6648	CP6848	CP7248
54 1/2	54	54	CP4254	CP4454	CP4854	CP5254	CP5654	CP6054	CP6454	CP6654	CP6854	CP7254
60 1/2	60	60	CP4260	CP4460	CP4860	CP5260	CP5660	CP6060	CP6460	CP6660	CP6860	CP7260
66 1/2	66	66	CP4266	CP4466	CP4866	CP5266	CP5666	CP6066	CP6466	CP6666	CP6866	CP7266
72 1/2	72	72	CP4272	CP4472	CP4872	CP5272	CP5672	CP6072	CP6472	CP6672	CP6872	CP7272
78 1/2	78	78	CP4278	CP4478	CP4878	CP5278	CP5678	CP6078	CP6478	CP6678	-	-

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP1816	10 1/2	8 1/2	0.6	2.0
CP1818	10 1/2	10 1/2	0.7	2.2
CP1820	10 1/2	12 1/2	0.9	2.5
CP1824	10 1/2	16 1/2	1.2	3.0
CP1828	10 1/2	20 1/2	1.4	3.5
CP1830	10 1/2	22 1/2	1.6	3.7
CP1832	10 1/2	24 1/2	1.7	4.0
CP1834	10 1/2	26 1/2	1.9	4.2
CP1836	10 1/2	28 1/2	2.0	4.5
CP1838	10 1/2	30 1/2	2.2	4.7
CP1840	10 1/2	32 1/2	2.3	5.0
CP1842	10 1/2	34 1/2	2.5	5.2
CP1844	10 1/2	36 1/2	2.6	5.5
CP1848	10 1/2	40 1/2	2.9	6.0
CP1854	10 1/2	46 1/2	3.3	6.7
CP1860	10 1/2	52 1/2	3.8	7.5
CP1866	10 1/2	58 1/2	4.2	8.2
CP1872	10 1/2	64 1/2	4.7	9.0
CP1878	10 1/2	70 1/2	5.1	9.7
CP2016	12 1/2	8 1/2	0.7	2.2
CP2018	12 1/2	10 1/2	0.9	2.5
CP2020	12 1/2	12 1/2	1.0	2.7
CP2024	12 1/2	16 1/2	1.4	3.3
CP2028	12 1/2	20 1/2	1.7	3.8
CP2030	12 1/2	22 1/2	1.9	4.1
CP2032	12 1/2	24 1/2	2.1	4.4
CP2034	12 1/2	26 1/2	2.3	4.7
CP2036	12 1/2	28 1/2	2.4	5.0
CP2038	12 1/2	30 1/2	2.6	5.2
CP2040	12 1/2	32 1/2	2.8	5.5
CP2042	12 1/2	34 1/2	2.9	5.8
CP2044	12 1/2	36 1/2	3.1	6.1
CP2048	12 1/2	40 1/2	3.5	6.6
CP2054	12 1/2	46 1/2	4.0	7.5
CP2060	12 1/2	52 1/2	4.5	8.3
CP2066	12 1/2	58 1/2	5.0	9.1
CP2072	12 1/2	64 1/2	5.5	10.0
CP2078	12 1/2	70 1/2	6.1	10.8

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP2416	16 1/2	8 1/2	0.9	2.6
CP2418	16 1/2	10 1/2	1.2	3.0
CP2420	16 1/2	12 1/2	1.4	3.3
CP2424	16 1/2	16 1/2	1.8	4.0
CP2428	16 1/2	20 1/2	2.3	4.6
CP2430	16 1/2	22 1/2	2.5	5.0
CP2432	16 1/2	24 1/2	2.8	5.3
CP2434	16 1/2	26 1/2	3.0	5.6
CP2436	16 1/2	28 1/2	3.2	6.0
CP2438	16 1/2	30 1/2	3.4	6.3
CP2440	16 1/2	32 1/2	3.7	6.6
CP2442	16 1/2	34 1/2	3.9	7.0
CP2444	16 1/2	36 1/2	4.1	7.3
CP2448	16 1/2	40 1/2	4.6	8.0
CP2454	16 1/2	46 1/2	5.3	9.0
CP2460	16 1/2	52 1/2	6.0	10.0
CP2466	16 1/2	58 1/2	6.7	11.0
CP2472	16 1/2	64 1/2	7.3	12.0
CP2478	16 1/2	70 1/2	8.0	13.0
CP2616	18 1/2	8 1/2	1.0	2.8
CP2618	18 1/2	10 1/2	1.3	3.2
CP2620	18 1/2	12 1/2	1.6	3.6
CP2624	18 1/2	16 1/2	2.1	4.3
CP2628	18 1/2	20 1/2	2.6	5.0
CP2630	18 1/2	22 1/2	2.8	5.4
CP2632	18 1/2	24 1/2	3.1	5.7
CP2634	18 1/2	26 1/2	3.4	6.1
CP2636	18 1/2	28 1/2	3.6	6.5
CP2638	18 1/2	30 1/2	3.9	6.8
CP2640	18 1/2	32 1/2	4.1	7.2
CP2642	18 1/2	34 1/2	4.4	7.5
CP2644	18 1/2	36 1/2	4.6	7.9
CP2648	18 1/2	40 1/2	5.2	8.6
CP2654	18 1/2	46 1/2	5.9	9.7
CP2660	18 1/2	52 1/2	6.7	10.8
CP2666	18 1/2	58 1/2	7.5	11.9
CP2672	18 1/2	64 1/2	8.2	13.0
CP2678	18 1/2	70 1/2	9.0	14.0

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP2816	20 1/2	8 1/2	1.2	3.1
CP2818	20 1/2	10 1/2	1.4	3.5
CP2820	20 1/2	12 1/2	1.7	3.8
CP2824	20 1/2	16 1/2	2.3	4.6
CP2828	20 1/2	20 1/2	2.9	5.4
CP2830	20 1/2	22 1/2	3.2	5.8
CP2832	20 1/2	24 1/2	3.4	6.2
CP2834	20 1/2	26 1/2	3.7	6.6
CP2836	20 1/2	28 1/2	4.0	7.0
CP2838	20 1/2	30 1/2	4.3	7.3
CP2840	20 1/2	32 1/2	4.6	7.7
CP2842	20 1/2	34 1/2	4.9	8.1
CP2844	20 1/2	36 1/2	5.1	8.5
CP2848	20 1/2	40 1/2	5.7	9.3
CP2854	20 1/2	46 1/2	6.6	10.5
CP2860	20 1/2	52 1/2	7.4	11.6
CP2866	20 1/2	58 1/2	8.3	12.8
CP2872	20 1/2	64 1/2	9.1	14.0
CP2878	20 1/2	70 1/2	10.0	15.1
CP3016	22 1/2	8 1/2	1.3	3.3
CP3018	22 1/2	10 1/2	1.6	3.7
CP3020	22 1/2	12 1/2	1.9	4.1
CP3024	22 1/2	16 1/2	2.5	5.0
CP3028	22 1/2	20 1/2	3.2	5.8
CP3030	22 1/2	22 1/2	3.5	6.2
CP3032	22 1/2	24 1/2	3.8	6.6
CP3034	22 1/2	26 1/2	4.1	7.0
CP3036	22 1/2	28 1/2	4.4	7.5
CP3038	22 1/2	30 1/2	4.7	7.9
CP3040	22 1/2	32 1/2	5.0	8.3
CP3042	22 1/2	34 1/2	5.3	8.7
CP3044	22 1/2	36 1/2	5.7	9.1
CP3048	22 1/2	40 1/2	6.3	10.0
CP3054	22 1/2	46 1/2	7.2	11.2
CP3060	22 1/2	52 1/2	8.2	12.5
CP3066	22 1/2	58 1/2	9.1	13.7
CP3072	22 1/2	64 1/2	10.0	15.0
CP3078	22 1/2	70 1/2	11.0	16.2

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP3216	24 1/2	8 1/2	1.4	3.5
CP3218	24 1/2	10 1/2	1.7	4.0
CP3220	24 1/2	12 1/2	2.1	4.4
CP3224	24 1/2	16 1/2	2.8	5.3
CP3228	24 1/2	20 1/2	3.4	6.2
CP3230	24 1/2	22 1/2	3.8	6.6
CP3232	24 1/2	24 1/2	4.1	7.1
CP3234	24 1/2	26 1/2	4.5	7.5
CP3236	24 1/2	28 1/2	4.8	8.0
CP3238	24 1/2	30 1/2	5.1	8.4
CP3240	24 1/2	32 1/2	5.5	8.8
CP3242	24 1/2	34 1/2	5.8	9.3
CP3244	24 1/2	36 1/2	6.2	9.7
CP3248	24 1/2	40 1/2	6.8	10.6
CP3254	24 1/2	46 1/2	7.9	12.0
CP3260	24 1/2	52 1/2	8.9	13.3
CP3266	24 1/2	58 1/2	9.9	14.6
CP3272	24 1/2	64 1/2	10.9	16.0
CP3278	24 1/2	70 1/2	11.9	17.3
CP3416	26 1/2	8 1/2	1.5	3.7
CP3418	26 1/2	10 1/2	1.9	4.2
CP3420	26 1/2	12 1/2	2.3	4.7
CP3424	26 1/2	16 1/2	3.0	5.6
CP3428	26 1/2	20 1/2	3.7	6.6
CP3430	26 1/2	22 1/2	4.1	7.0
CP3432	26 1/2	24 1/2	4.5	7.5
CP3434	26 1/2	26 1/2	4.8	8.0
CP3436	26 1/2	28 1/2	5.2	8.5
CP3438	26 1/2	30 1/2	5.6	8.9
CP3440	26 1/2	32 1/2	5.9	9.4
CP3442	26 1/2	34 1/2	6.3	9.9
CP3444	26 1/2	36 1/2	6.7	10.3
CP3448	26 1/2	40 1/2	7.4	11.3
CP3454	26 1/2	46 1/2	8.5	12.7
CP3460	26 1/2	52 1/2	9.6	14.1
CP3466	26 1/2	58 1/2	10.7	15.5
CP3472	26 1/2	64 1/2	11.8	17.0
CP3478	26 1/2	70 1/2	12.9	18.4

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP3616	28 1/2	8 1/2	1.6	4.0
CP3618	28 1/2	10 1/2	2.0	4.5
CP3620	28 1/2	12 1/2	2.4	5.0
CP3624	28 1/2	16 1/2	3.2	6.0
CP3628	28 1/2	20 1/2	4.0	7.0
CP3630	28 1/2	22 1/2	4.4	7.5
CP3632	28 1/2	24 1/2	4.8	8.0
CP3634	28 1/2	26 1/2	5.2	8.5
CP3636	28 1/2	28 1/2	5.6	9.0
CP3638	28 1/2	30 1/2	6.0	9.5
CP3640	28 1/2	32 1/2	6.4	10.0
CP3642	28 1/2	34 1/2	6.8	10.5
CP3644	28 1/2	36 1/2	7.2	11.0
CP3648	28 1/2	40 1/2	8.0	12.0
CP3654	28 1/2	46 1/2	9.2	13.5
CP3660	28 1/2	52 1/2	10.3	15.0
CP3666	28 1/2	58 1/2	11.5	16.5
CP3672	28 1/2	64 1/2	12.7	18.0
CP3678	28 1/2	70 1/2	13.9	19.5
CP4016	32 1/2	8 1/2	1.9	4.4
CP4018	32 1/2	10 1/2	2.3	5.0
CP4020	32 1/2	12 1/2	2.8	5.5
CP4024	32 1/2	16 1/2	3.7	6.6
CP4028	32 1/2	20 1/2	4.6	7.7
CP4030	32 1/2	22 1/2	5.0	8.3
CP4032	32 1/2	24 1/2	5.5	8.8
CP4034	32 1/2	26 1/2	5.9	9.4
CP4036	32 1/2	28 1/2	6.4	10.0
CP4038	32 1/2	30 1/2	6.8	10.5
CP4040	32 1/2	32 1/2	7.3	11.1
CP4042	32 1/2	34 1/2	7.7	11.6
CP4044	32 1/2	36 1/2	8.2	12.2
CP4048	32 1/2	40 1/2	9.1	13.3
CP4054	32 1/2	46 1/2	10.4	15.0
CP4060	32 1/2	52 1/2	11.8	16.6
CP4066	32 1/2	58 1/2	13.2	18.3
CP4072	32 1/2	64 1/2	14.5	20.0
CP4078	32 1/2	70 1/2	15.9	21.6

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP4216	34 1/2	8 1/2	2.0	4.6
CP4218	34 1/2	10 1/2	2.5	5.2
CP4220	34 1/2	12 1/2	2.9	5.8
CP4224	34 1/2	16 1/2	3.9	7.0
CP4228	34 1/2	20 1/2	4.9	8.1
CP4230	34 1/2	22 1/2	5.3	8.7
CP4232	34 1/2	24 1/2	5.8	9.3
CP4234	34 1/2	26 1/2	6.3	9.9
CP4236	34 1/2	28 1/2	6.8	10.5
CP4238	34 1/2	30 1/2	7.3	11.0
CP4240	34 1/2	32 1/2	7.7	11.6
CP4242	34 1/2	34 1/2	8.2	12.2
CP4244	34 1/2	36 1/2	8.7	12.8
CP4248	34 1/2	40 1/2	9.7	14.0
CP4254	34 1/2	46 1/2	11.1	15.7
CP4260	34 1/2	52 1/2	12.5	17.5
CP4266	34 1/2	58 1/2	14.0	19.2
CP4272	34 1/2	64 1/2	15.4	21.0
CP4278	34 1/2	70 1/2	16.8	22.7
CP4416	36 1/2	8 1/2	2.1	4.8
CP4418	36 1/2	10 1/2	2.6	5.5
CP4420	36 1/2	12 1/2	3.1	6.1
CP4424	36 1/2	16 1/2	4.1	7.3
CP4428	36 1/2	20 1/2	5.1	8.5
CP4430	36 1/2	22 1/2	5.7	9.1
CP4432	36 1/2	24 1/2	6.2	9.7
CP4434	36 1/2	26 1/2	6.7	10.3
CP4436	36 1/2	28 1/2	7.2	11.0
CP4438	36 1/2	30 1/2	7.7	11.6
CP4440	36 1/2	32 1/2	8.2	12.2
CP4442	36 1/2	34 1/2	8.7	12.8
CP4444	36 1/2	36 1/2	9.2	13.4
CP4448	36 1/2	40 1/2	10.2	14.6
CP4454	36 1/2	46 1/2	11.7	16.5
CP4460	36 1/2	52 1/2	13.3	18.3
CP4466	36 1/2	58 1/2	14.8	20.1
CP4472	36 1/2	64 1/2	16.3	22.0
CP4478	36 1/2	70 1/2	17.8	23.8

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP4816	40 1/2	8 1/2	2.3	5.3
CP4818	40 1/2	10 1/2	2.9	6.0
CP4820	40 1/2	12 1/2	3.5	6.6
CP4824	40 1/2	16 1/2	4.6	8.0
CP4828	40 1/2	20 1/2	5.7	9.3
CP4830	40 1/2	22 1/2	6.3	10.0
CP4832	40 1/2	24 1/2	6.8	10.6
CP4834	40 1/2	26 1/2	7.4	11.3
CP4836	40 1/2	28 1/2	8.0	12.0
CP4838	40 1/2	30 1/2	8.5	12.6
CP4840	40 1/2	32 1/2	9.1	13.3
CP4842	40 1/2	34 1/2	9.7	14.0
CP4844	40 1/2	36 1/2	10.2	14.6
CP4848	40 1/2	40 1/2	11.3	16.0
CP4854	40 1/2	46 1/2	13.0	18.0
CP4860	40 1/2	52 1/2	14.7	20.0
CP4866	40 1/2	58 1/2	16.4	22.0
CP4872	40 1/2	64 1/2	18.1	24.0
CP4878	40 1/2	70 1/2	19.8	26.0
CP5216	44 1/2	8 1/2	2.6	5.7
CP5218	44 1/2	10 1/2	3.2	6.5
CP5220	44 1/2	12 1/2	3.8	7.2
CP5224	44 1/2	16 1/2	5.0	8.6
CP5228	44 1/2	20 1/2	6.3	10.1
CP5230	44 1/2	22 1/2	6.9	10.8
CP5232	44 1/2	24 1/2	7.5	11.5
CP5234	44 1/2	26 1/2	8.1	12.2
CP5236	44 1/2	28 1/2	8.8	13.0
CP5238	44 1/2	30 1/2	9.4	13.7
CP5240	44 1/2	32 1/2	10.0	14.4
CP5242	44 1/2	34 1/2	10.6	15.1
CP5244	44 1/2	36 1/2	11.2	15.8
CP5248	44 1/2	40 1/2	12.5	17.3
CP5254	44 1/2	46 1/2	14.3	19.5
CP5260	44 1/2	52 1/2	16.2	21.6
CP5266	44 1/2	58 1/2	18.0	23.8
CP5272	44 1/2	64 1/2	19.9	26.0
CP5278	44 1/2	70 1/2	21.7	28.1

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP5616	48 1/2	8 1/2	2.8	6.2
CP5618	48 1/2	10 1/2	3.5	7.0
CP5620	48 1/2	12 1/2	4.2	7.7
CP5624	48 1/2	16 1/2	5.5	9.3
CP5628	48 1/2	20 1/2	6.9	10.8
CP5630	48 1/2	22 1/2	7.5	11.6
CP5632	48 1/2	24 1/2	8.2	12.4
CP5634	48 1/2	26 1/2	8.9	13.2
CP5636	48 1/2	28 1/2	9.5	14.0
CP5638	48 1/2	30 1/2	10.2	14.7
CP5640	48 1/2	32 1/2	10.9	15.5
CP5642	48 1/2	34 1/2	11.6	16.3
CP5644	48 1/2	36 1/2	12.2	17.1
CP5648	48 1/2	40 1/2	13.6	18.6
CP5654	48 1/2	46 1/2	15.6	21.0
CP5660	48 1/2	52 1/2	17.6	23.3
CP5666	48 1/2	58 1/2	19.7	25.6
CP5672	48 1/2	64 1/2	21.7	28.0
CP5678	48 1/2	70 1/2	23.7	30.3
CP6016	52 1/2	8 1/2	3.0	6.6
CP6018	52 1/2	10 1/2	3.8	7.5
CP6020	52 1/2	12 1/2	4.5	8.3
CP6024	52 1/2	16 1/2	6.0	10.0
CP6028	52 1/2	20 1/2	7.4	11.6
CP6030	52 1/2	22 1/2	8.2	12.5
CP6032	52 1/2	24 1/2	8.9	13.3
CP6034	52 1/2	26 1/2	9.6	14.1
CP6036	52 1/2	28 1/2	10.3	15.0
CP6038	52 1/2	30 1/2	11.1	15.8
CP6040	52 1/2	32 1/2	11.8	16.6
CP6042	52 1/2	34 1/2	12.5	17.5
CP6044	52 1/2	36 1/2	13.3	18.3
CP6048	52 1/2	40 1/2	14.7	20.0
CP6054	52 1/2	46 1/2	16.9	22.5
CP6060	52 1/2	52 1/2	19.1	25.0
CP6066	52 1/2	58 1/2	21.3	27.5
CP6072	52 1/2	64 1/2	23.5	30.0
CP6078	52 1/2	70 1/2	25.7	32.5

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP6416	56 1/2	8 1/2	3.3	7.1
CP6418	56 1/2	10 1/2	4.1	8.0
CP6420	56 1/2	12 1/2	4.9	8.8
CP6424	56 1/2	16 1/2	6.4	10.6
CP6428	56 1/2	20 1/2	8.0	12.4
CP6430	56 1/2	22 1/2	8.8	13.3
CP6432	56 1/2	24 1/2	9.6	14.2
CP6434	56 1/2	26 1/2	10.3	15.1
CP6436	56 1/2	28 1/2	11.1	16.0
CP6438	56 1/2	30 1/2	11.9	16.8
CP6440	56 1/2	32 1/2	12.7	17.7
CP6442	56 1/2	34 1/2	13.5	18.6
CP6444	56 1/2	36 1/2	14.3	19.5
CP6448	56 1/2	40 1/2	15.8	21.3
CP6454	56 1/2	46 1/2	18.2	24.0
CP6460	56 1/2	52 1/2	20.5	26.6
CP6466	56 1/2	58 1/2	22.9	29.3
CP6472	56 1/2	64 1/2	25.3	32.0
CP6478	56 1/2	70 1/2	27.6	34.6
CP6616	58 1/2	8 1/2	3.4	7.3
CP6618	58 1/2	10 1/2	4.2	8.2
CP6620	58 1/2	12 1/2	5.0	9.1
CP6624	58 1/2	16 1/2	6.7	11.0
CP6628	58 1/2	20 1/2	8.3	12.8
CP6630	58 1/2	22 1/2	9.1	13.7
CP6632	58 1/2	24 1/2	9.9	14.6
CP6634	58 1/2	26 1/2	10.7	15.5
CP6636	58 1/2	28 1/2	11.5	16.5
CP6638	58 1/2	30 1/2	12.3	17.4
CP6640	58 1/2	32 1/2	13.2	18.3
CP6642	58 1/2	34 1/2	14.0	19.2
CP6644	58 1/2	36 1/2	14.8	20.1
CP6648	58 1/2	40 1/2	16.4	22.0
CP6654	58 1/2	46 1/2	18.8	24.7
CP6660	58 1/2	52 1/2	21.3	27.5
CP6666	58 1/2	58 1/2	23.7	30.2
CP6672	58 1/2	64 1/2	26.2	33.0
CP6678	58 1/2	70 1/2	28.6	35.7

*Maximum Frame Height for triple pane glass is 72"*

Call Size	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Window Area (ft <sup>2</sup> )
CP6816	60 1/2	8 1/2	3.5	7.5
CP6818	60 1/2	10 1/2	4.4	8.5
CP6820	60 1/2	12 1/2	5.2	9.4
CP6824	60 1/2	16 1/2	6.9	11.3
CP6828	60 1/2	20 1/2	8.6	13.2
CP6830	60 1/2	22 1/2	9.4	14.1
CP6832	60 1/2	24 1/2	10.2	15.1
CP6834	60 1/2	26 1/2	11.1	16.0
CP6836	60 1/2	28 1/2	11.9	17.0
CP6838	60 1/2	30 1/2	12.8	17.9
CP6840	60 1/2	32 1/2	13.6	18.8
CP6842	60 1/2	34 1/2	14.4	19.8
CP6844	60 1/2	36 1/2	15.3	20.7
CP6848	60 1/2	40 1/2	17.0	22.6
CP6854	60 1/2	46 1/2	19.5	25.5
CP6860	60 1/2	52 1/2	22.0	28.3
CP6866	60 1/2	58 1/2	24.5	31.1
CP6872	60 1/2	64 1/2	27.0	34.0
-	-	-	-	-
CP7216	64 1/2	8 1/2	3.8	8.0
CP7218	64 1/2	10 1/2	4.7	9.0
CP7220	64 1/2	12 1/2	5.5	10.0
CP7224	64 1/2	16 1/2	7.3	12.0
CP7228	64 1/2	20 1/2	9.1	14.0
CP7230	64 1/2	22 1/2	10.0	15.0
CP7232	64 1/2	24 1/2	10.9	16.0
CP7234	64 1/2	26 1/2	11.8	17.0
CP7236	64 1/2	28 1/2	12.7	18.0
CP7238	64 1/2	30 1/2	13.6	19.0
CP7240	64 1/2	32 1/2	14.5	20.0
CP7242	64 1/2	34 1/2	15.4	21.0
CP7244	64 1/2	36 1/2	16.3	22.0
CP7248	64 1/2	40 1/2	18.1	24.0
CP7254	64 1/2	46 1/2	20.8	27.0
CP7260	64 1/2	52 1/2	23.5	30.0
CP7266	64 1/2	58 1/2	26.2	33.0
CP7272	64 1/2	64 1/2	28.8	36.0

*Maximum Frame Height for triple pane glass is 72"*

**Direct Glaze Polygon & Radius Windows Thermal Performance**

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
Dual Pane Low-E Argon (Cardinal 270)	0.27	0.30	0.57	64	Yes	-	-	-	-
Dual Pane Low-E (Cardinal 270)	0.31	0.30	0.57	60	-	-	-	-	-
Dual Pane Clear	0.44	0.65	0.67	46	-	-	-	-	-
Dual Pane Low-E Argon Tempered (Cardinal 270)	0.27	0.30	0.57	61	Yes	-	-	-	-
Dual Pane Low-E Tempered (Cardinal 270)	0.30	0.30	0.57	57	Yes	-	-	-	-
Dual Pane Clear Tempered	0.44	0.65	0.67	45	-	-	-	-	-
Dual Pane E7 (Cardinal 180)	0.26	0.51	0.62	63	Yes	N	-	-	-
Dual Pane E7 Tempered (Cardinal 180)	0.25	0.51	0.62	63	Yes	N	-	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270)	0.22	0.28	0.52	68	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270)	0.19	0.26	0.45	71	Yes	N	NC	-	-
Triple Pane Low-E / Clear / Clear Tempered & Argon (Cardinal 270)	0.24	0.28	0.52	65	Yes	-	NC	-	-
Triple Pane Low-E / Clear / Low-E Tempered & Argon (Cardinal 270)	0.19	0.26	0.45	71	Yes	N	NC	-	-
Triple Pane E7 (Cardinal 270)	0.22	0.28	0.52	68	Yes	N	NC	-	-
Triple Pane E7 Tempered (Cardinal 180)	0.24	0.49	0.59	67	Yes	N	-	-	-

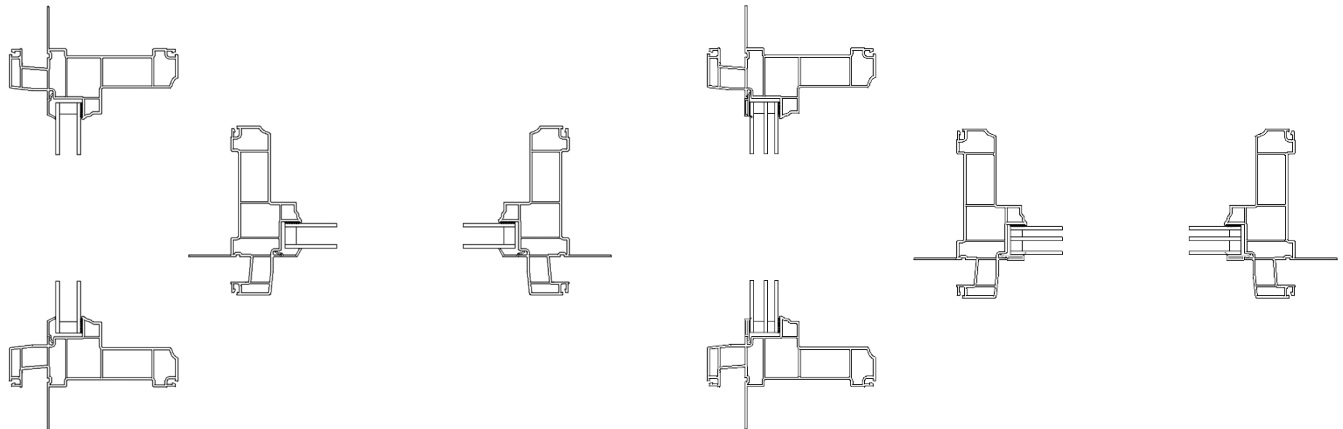
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.

**Direct Glaze Polygon & Radius Windows Structural Performance (Dual and Triple Pane Glazing)**

Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Direct Glaze Polygon & Radius	60 x 60	Single	PG70	LC
Direct Glaze Polygon & Radius	72 x 72	Single	PG45	LC
Direct Glaze Polygon & Radius	72 x 84	Single	PG40	LC

Detail Drawings:



For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

### Sliding Patio Door Thermal Performance

Glass Options	U-Factor	SHGC	VT	CR	IECC <sup>1</sup>	Energy Star 7.0			
						N	NC	SC	S
Dual Pane Low-E Argon (Cardinal 270) - Tempered	0.26	0.23	0.43	61	Yes	N	NC	SC	S
Dual Pane Low-E (Cardinal 270) - Tempered	0.29	0.23	0.43	58	Yes	-	-	-	-
Dual Pane Clear - Tempered	0.40	0.49	0.51	45	-	-	-	-	-
Triple Pane Low-E / Clear / Clear & Argon (Cardinal 270) - Tempered	0.24	0.22	0.40	66	Yes	N	NC	SC	S
Triple Pane Low-E / Clear / Low-E & Argon (Cardinal 270) - Tempered	0.21	0.20	0.34	70	Yes	N	NC	SC	S

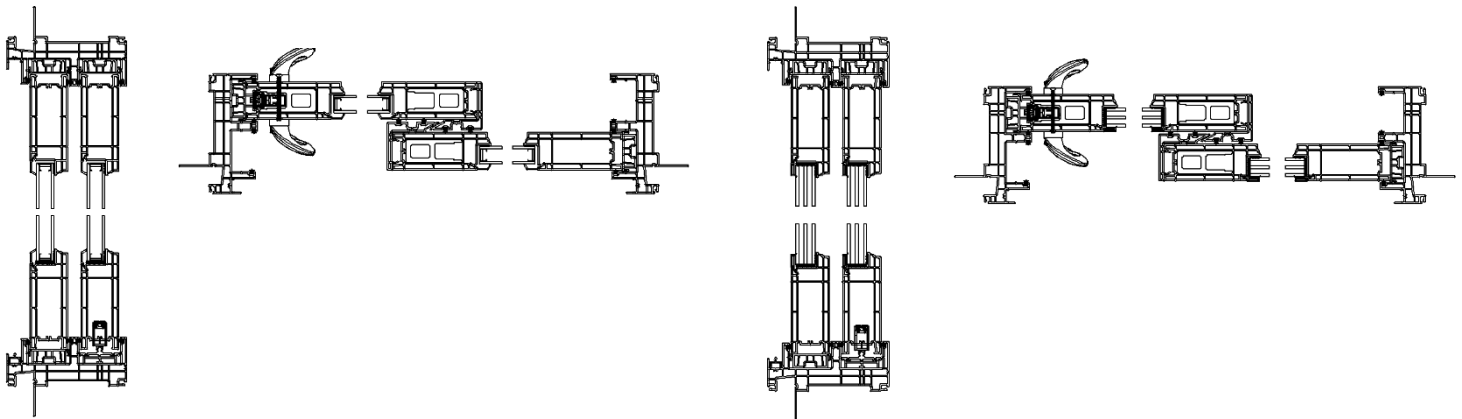
<sup>1</sup> = Meets 2021 IECC and older in most northern zones

Thermal values are for standard glazing package offerings without grilles. Factors such as custom sizes, glass spacers, safety glass, grilles between the glass, and simulated divided lites (SDL) can affect the final values.

### Sliding Patio Door Structural Performance (Dual and Triple Pane Glazing)

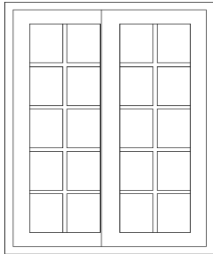
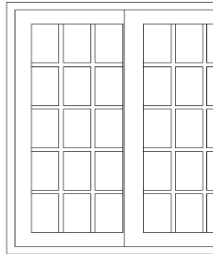
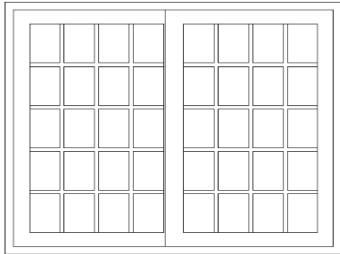
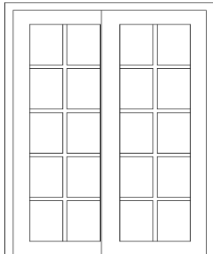
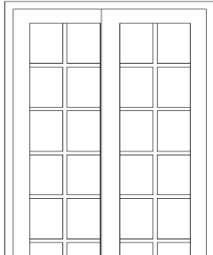
Air, Water, and Structural Ratings	Frame Size Inches (wxh)	Configuration	Performance Grade	Performance Class
Two Panel	71.5 x 82	Single	PG50	LC
Two Panel	95.5 x 95.5	Single	PG30	LC
Three Panel	107.5 x 82	Single	PG40	LC
Four Panel	139.75 x 82	Single	PG25	LC

#### Detail Drawings:

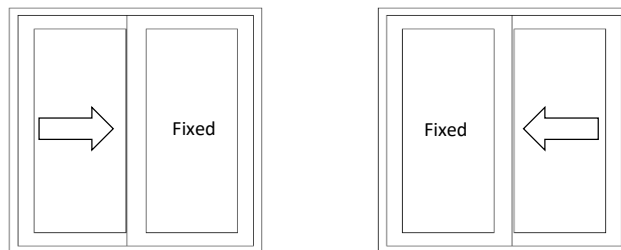


For additional drawings, visit [mathewsbrothers.com](http://mathewsbrothers.com)

Two Panel Sliding Patio Door

Rough Opening		60	72	96	
Frame Size		59 1/2	71 1/2	95 1/2	
Call Size		5-0	6-0	8-0	
80	79 1/2	6-8			
			SHPD5068	SHPD6068	SHPD8068
		82 1/2	82	6-11	
	SHPD50611			SHPD60611	SHPD80611
96	95 1/2			8-0	
			SHPD5080	SHPD6080	

As Viewed From Exterior



Left Hand

Right Hand

Three Panel Sliding Patio Door

Rough Opening

90

108

Frame Size

89 1/2

107 1/2

Call Size

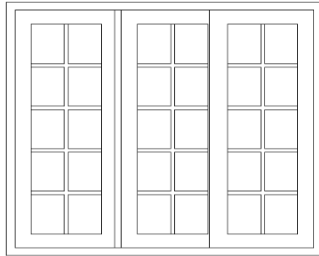
7-6

9-0

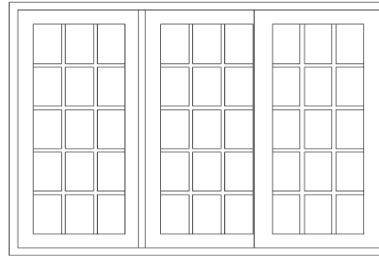
80

79 1/2

6-8



SHPD7668

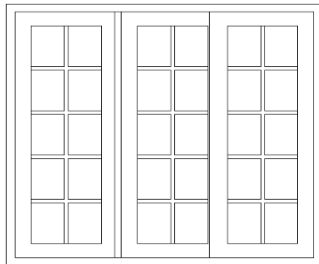


SHPD9068

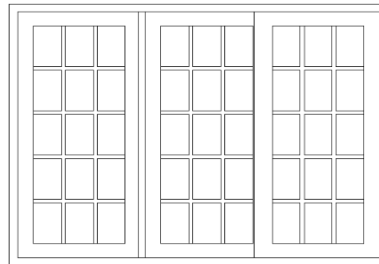
82 1/2

82

6-11

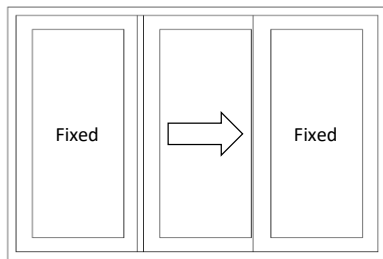


SHPD76611

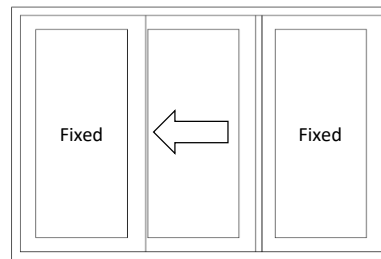


SHPD90611

As Viewed From Exterior

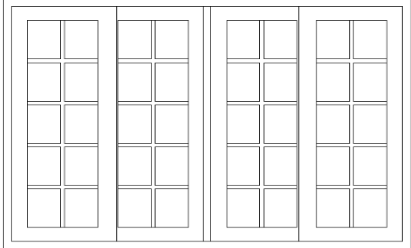
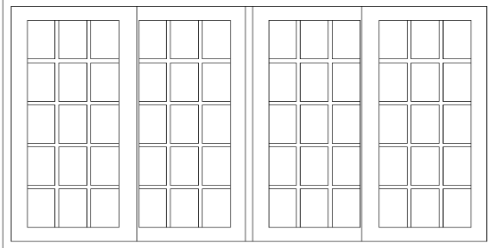
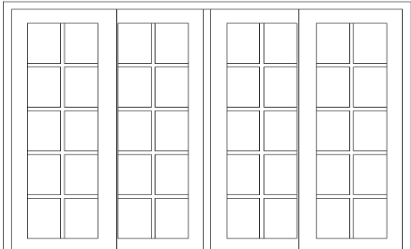
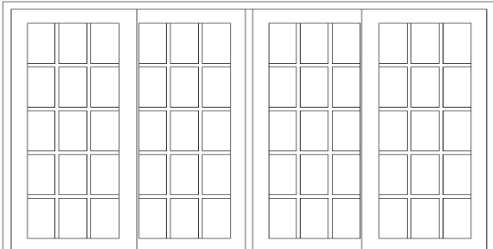


Left Hand

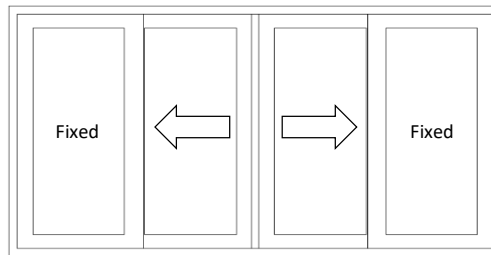


Right Hand

Four Panel Sliding Patio Door  
Rough Opening

			116 1/4	140 1/4
	Frame Size		115 3/4	139 3/4
	Call Size		10-0	12-0
80	79 1/2	6-8	 <p>SHPD10068</p>	 <p>SHPD12068</p>
82 1/2	82	6-11	 <p>SHPD100611</p>	 <p>SHPD120611</p>

As Viewed From Exterior



Two Panel

Rough Opening			60	72	96
	Frame Size		59 1/2	71 1/2	95 1/2
		Call Size	5-0	6-0	8-0
80	79 1/2	6-8	SHPD5068	SHPD6068	SHPD8068
82 1/2	82	6-11	SHPD50611	SHPD60611	SHPD80611
96	95 1/2	8-0	SHPD5080	SHPD6080	-

Three Panel

Rough Opening			90	108
	Frame Size		89 1/2	107 1/2
		Call Size	7-6	9-0
80	79 1/2	6-8	SHPD7668	SHPD9068
82 1/2	82	6-11	SHPD76611	SHPD90611

Four Panel

Rough Opening			116 1/4	140 1/4
	Frame Size		115 3/4	139 3/4
		Call Size	10-0	12-0
80	79 1/2	6-8	SHPD10068	SHPD12068
82 1/2	82	6-11	SHPD100611	SHPD120611

## Two Panel

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Door Area (ft <sup>2</sup> )
SHPD5068	20	74.5	10.3	10.3	19 15/16	65 3/4	9.1	32.8
SHPD6068	26	74.5	13.4	13.4	25 15/16	65 3/4	11.8	39.4
SHPD8068	38	74.5	19.6	19.6	37 15/16	65 3/4	17.3	52.7
SHPD50611	20	77.0	10.6	10.6	19 15/16	68 1/4	9.4	33.8
SHPD60611	26	77.0	13.9	13.9	25 15/16	68 1/4	12.2	40.7
SHPD80611	38	77.0	20.3	20.3	37 15/16	68 1/4	17.9	54.3
SHPD5080	20	90.5	12.5	12.5	19 15/16	81 3/4	11.3	39.4
SHPD6080	26	90.5	16.3	16.3	25 15/16	81 3/4	14.7	47.4

## Three Panel

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Door Area (ft <sup>2</sup> )
SHPD7668	20	74.5	10.3	10.3	19 15/16	65 3/4	9.1	49.4
SHPD9068	26	74.5	13.4	13.4	25 15/16	65 3/4	11.8	59.3
SHPD76611	20	77.0	10.6	10.6	19 15/16	68 1/4	9.4	50.9
SHPD90611	26	77.0	13.9	13.9	25 15/16	68 1/4	12.2	61.2

## Four Panel

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Door Area (ft <sup>2</sup> )
SHPD10068	40.3	74.5	20.8	20.8	19 15/16	65 3/4	9.1	63.9
SHPD12068	52.3	74.5	27.0	27.0	25 15/16	65 3/4	11.8	77.1
SHPD100611	40.3	77.0	21.5	21.5	19 15/16	68 1/4	9.4	65.9
SHPD120611	52.3	77.0	27.9	27.9	25 15/16	68 1/4	12.2	79.5

Two Panel

Rough Opening			60	72
	Frame Size		59 1/2	71 1/2
		Call Size	5-0	6-0
80	79 1/2	6-8	SHPD5068	SHPD6068
82 1/2	82	6-11	SHPD50611	SHPD60611
96	95 1/2	8-0	SHPD5080	SHPD6080

Three Panel

Rough Opening			90	108
	Frame Size		89 1/2	107 1/2
		Call Size	7-6	9-0
80	79 1/2	6-8	SHPD7668	SHPD9068
82 1/2	82	6-11	SHPD76611	SHPD90611

Four Panel

Rough Opening			116 1/4	140 1/4
	Frame Size		115 3/4	139 3/4
		Call Size	10-0	12-0
80	79 1/2	6-8	SHPD10068	SHPD12068
82 1/2	82	6-11	SHPD100611	SHPD120611

## Two Panel

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Door Area (ft <sup>2</sup> )
SHPD5068	20	74.5	10.3	10.3	19 15/16	65 3/4	9.1	32.8
SHPD6068	26	74.5	13.4	13.4	25 15/16	65 3/4	11.8	39.4
SHPD8068	38	74.5	19.6	19.6	37 15/16	65 3/4	17.3	52.7
SHPD50611	20	77.0	10.6	10.6	19 15/16	68 1/4	9.4	33.8
SHPD60611	26	77.0	13.9	13.9	25 15/16	68 1/4	12.2	40.7
SHPD80611	38	77.0	20.3	20.3	37 15/16	68 1/4	17.9	54.3

## Three Panel

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Door Area (ft <sup>2</sup> )
SHPD7668	20	74.5	10.3	10.3	19 15/16	65 3/4	9.1	49.4
SHPD9068	26	74.5	13.4	13.4	25 15/16	65 3/4	11.8	59.3
SHPD76611	20	77.0	10.6	10.6	19 15/16	68 1/4	9.4	50.9
SHPD90611	26	77.0	13.9	13.9	25 15/16	68 1/4	12.2	61.2

## Four Panel

Call Size	Clear Opening Width	Clear Opening Height	Clear Opening Area (ft <sup>2</sup> )	Vent Opening Area (ft <sup>2</sup> )	Daylight Glass Width	Daylight Glass Height	Daylight Glass Area (ft <sup>2</sup> )	Overall Door Area (ft <sup>2</sup> )
SHPD10068	40.3	74.5	20.8	20.8	19 15/16	65 3/4	9.1	63.9
SHPD12068	52.3	74.5	27.0	27.0	25 15/16	65 3/4	11.8	77.1
SHPD100611	40.3	77.0	21.5	21.5	19 15/16	68 1/4	9.4	65.9
SHPD120611	52.3	77.0	27.9	27.9	25 15/16	68 1/4	12.2	79.5