

Notes:

"Unit Dimension" always refers to outside frame to frame dimension.
 "Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.
 Dimensions in parentheses are in millimeters.
 ♦ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) & clear opening height of 24" (610).
 *Available with straight-arm operators only; all other sizes have split-arm operators only.

Date: 11/07/16
 Scale: 1/8" (3) = 1' (305)

Casement

	1'-8" (508)	2'-0" (610)	2'-4" (711)	2'-6" (762)	2'-8" (813)	2'-10" (864)	3'-0" (914)	3'-2" (965)	3'-4" (1016)	3'-6" (1067)	3'-8" (1118)
Rough Opening	1'-7 ¹ / ₄ " (489)	1'-11 ¹ / ₄ " (591)	2'-3 ¹ / ₄ " (692)	2'-5 ¹ / ₄ " (743)	2'-7 ¹ / ₄ " (794)	2'-9 ¹ / ₄ " (845)	2'-11 ¹ / ₄ " (895)	3'-1 ¹ / ₄ " (946)	3'-3 ¹ / ₄ " (997)	3'-5 ¹ / ₄ " (1048)	3'-7 ¹ / ₄ " (1099)
Unit Dimension											

Casement (ACW)

Continuation from page 01

5'-8" (1727)											
	ACW1858	ACW2058	ACW2458♦*	ACW2658♦*	ACW2858♦	ACW21058♦	ACW3058♦	ACW3258♦	ACW3458♦	ACW3658♦	ACW3858♦
6'-0" (1829)											
	ACW1860	ACW2060	ACW2460♦*	ACW2660♦*	ACW2860♦	ACW21060♦	ACW3060♦	ACW3260♦	ACW3460♦	ACW3660♦	ACW3860♦
6'-4" (1930)											
	ACW1864	ACW2064	ACW2464♦*	ACW2664♦*	ACW2864♦	ACW21064♦	ACW3064♦	ACW3264♦	ACW3464♦	ACW3664♦	ACW3864♦
6'-8" (2032)											
	ACW1868	ACW2068	ACW2468♦*	ACW2668♦*	ACW2868♦	ACW21068♦	ACW3068♦	ACW3268♦	ACW3468♦	ACW3668♦	ACW3868♦
7'-0" (2134)											
	ACW1870	ACW2070	ACW2470♦*	ACW2670♦*	ACW2870♦	ACW21070♦	ACW3070♦	ACW3270♦	ACW3470♦	ACW3670♦	ACW3870♦
7'-4" (2235)											
	ACW1874	ACW2074	ACW2474♦*	ACW2674♦*	ACW2874♦	ACW21074♦	ACW3074♦	ACW3274♦	ACW3474♦	ACW3674♦	ACW3874♦
7'-8" (2337)											
	ACW1878	ACW2078	ACW2478♦*	ACW2678♦*	ACW2878♦	ACW21078♦	ACW3078♦	ACW3278♦	ACW3478♦	ACW3678♦	ACW3878♦

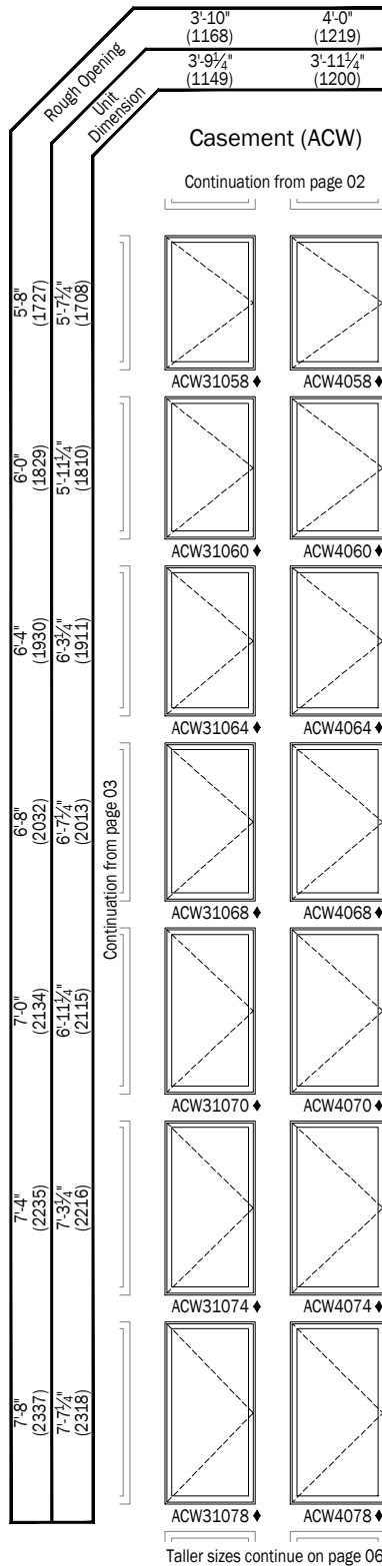
Wider sizes continue on page 04

Taller sizes continue on page 05

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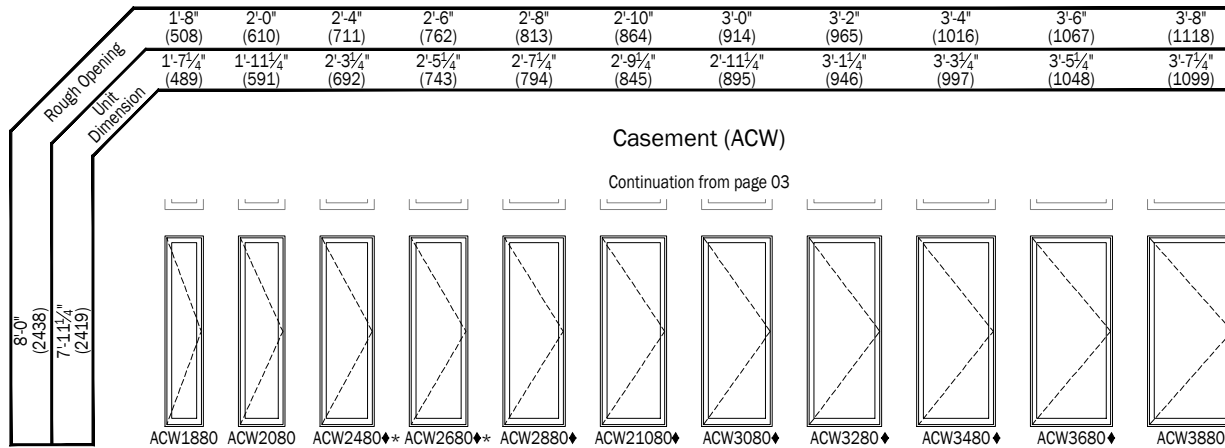


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Casement

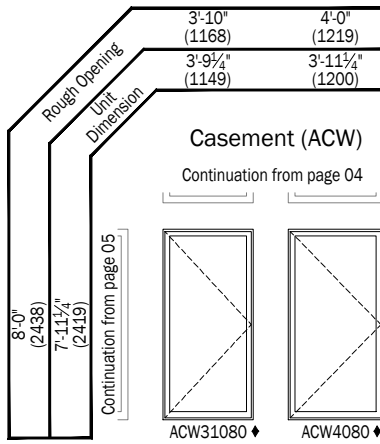


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Casement



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Date: 11/07/16
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Awning Window

	1'-8" (508)	2'-0" (610)	2'-4" (711)	2'-6" (762)	2'-8" (813)	2'-10" (864)	3'-0" (914)	3'-4" (1016)	3'-8" (1118)	4'-0" (1219)	4'-4" (1321)
	1'-7 ¹ / ₄ " (489)	1'-11 ¹ / ₄ " (591)	2'-3 ¹ / ₄ " (692)	2'-5 ¹ / ₄ " (743)	2'-7 ¹ / ₄ " (794)	2'-9 ¹ / ₄ " (845)	2'-11 ¹ / ₄ " (895)	3'-3 ¹ / ₄ " (997)	3'-7 ¹ / ₄ " (1099)	3'-11 ¹ / ₄ " (1200)	4'-3 ¹ / ₄ " (1302)
Rough Opening											
Unit Dimension											
	1'-4" (406)	1'-8" (508)	1'-10" (559)	2'-0" (610)	2'-4" (711)	2'-8" (813)	3'-0" (914)	3'-4" (1016)	3'-8" (1118)	4'-0" (1219)	
	1'-7 ¹ / ₄ " (489)	1'-11 ¹ / ₄ " (591)	1'-9 ¹ / ₄ " (540)	1'-11 ¹ / ₄ " (591)	2'-3 ¹ / ₄ " (692)	2'-7 ¹ / ₄ " (794)	2'-11 ¹ / ₄ " (895)	3'-3 ¹ / ₄ " (997)	3'-7 ¹ / ₄ " (1099)	3'-11 ¹ / ₄ " (1200)	
Awning (AAN)											
	AAN1814	AAN2014	AAN2414	AAN2614	AAN2814	AAN21014	AAN3014	AAN3414	AAN3814	AAN4014	AAN4414
	AAN1818	AAN2018	AAN2418	AAN2618	AAN2818	AAN21018	AAN3018	AAN3418	AAN3818	AAN4018	AAN4418
	AAN18110	AAN20110	AAN24110	AAN26110	AAN28110	AAN210110	AAN30110	AAN34110	AAN38110	AAN40110	AAN44110
	AAN1820	AAN2020	AAN2420	AAN2620	AAN2820	AAN21020	AAN3020	AAN3420	AAN3820	AAN4020	AAN4420
	AAN1824	AAN2024	AAN2424	AAN2624	AAN2824	AAN21024	AAN3024	AAN3424	AAN3824	AAN4024	AAN4424
	AAN1828	AAN2028	AAN2428	AAN2628	AAN2828	AAN21028	AAN3028	AAN3428	AAN3828	AAN4028	AAN4428
	AAN1830	AAN2030	AAN2430	AAN2630	AAN2830	AAN21030	AAN3030	AAN3430	AAN3830	AAN4030	AAN4430
	AAN1834	AAN2034	AAN2434	AAN2634	AAN2834	AAN21034	AAN3034	AAN3434	AAN3834	AAN4034	AAN4434
	AAN1838	AAN2038	AAN2438	AAN2638	AAN2838	AAN21038	AAN3038	AAN3438	AAN3838	AAN4038	AAN4438
	AAN1840	AAN2040	AAN2440	AAN2640	AAN2840	AAN21040	AAN3040	AAN3440	AAN3840	AAN4040	AAN4440

Wider sizes continue on page 08

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Awning Window

		4'-8" (1422)	5'-0" (1524)	5'-4" (1626)	5'-8" (1727)	6'-0" (1829)
		4'-7½" (1403)	4'-11¼" (1505)	5'-3¾" (1607)	5'-7¼" (1708)	5'-11¼" (1810)
	Rough Opening					
	Unit Dimension					
	1'-4"	AAN4814	AAN5014	AAN5414	AAN5814	AAN6014
	1'-8"	AAN4818	AAN5018	AAN5418	AAN5818	AAN6018
	1'-10"	AAN48110	AAN50110	AAN54110	AAN58110	AAN60110
	2'-0"	AAN4820	AAN5020	AAN5420	AAN5820	AAN6020
	2'-4"	AAN4824	AAN5024	AAN5424	AAN5824	AAN6024
	2'-8"	AAN4828	AAN5028	AAN5428	AAN5828	AAN6028
	3'-0"	AAN4830	AAN5030	AAN5430	AAN5830	AAN6030
	3'-4"	AAN4834	AAN5034	AAN5434	AAN5834	AAN6034
	3'-8"	AAN4838	AAN5038	AAN5438	AAN5838	AAN6038
	4'-0"	AAN4840	AAN5040	AAN5440	AAN5840	AAN6040

Awning (AAN)

Continuation from page 07

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Date: 11/07/16
 Scale: 1/8" (3) = 1' (305)

Picture Window

	1'-4" (406)	1'-8" (508)	2'-0" (610)	2'-4" (711)	2'-6" (762)	2'-8" (813)	2'-10" (864)	3'-0" (914)	3'-2" (965)	3'-4" (1016)	3'-8" (1118)	4'-0" (1219)
Rough Opening	1'-3 1/4" (387)	1'-7 1/4" (489)	1'-11 1/4" (591)	2'-3 1/4" (692)	2'-5 1/4" (743)	2'-7 1/4" (794)	2'-9 1/4" (845)	2'-11 1/4" (895)	3'-1 1/4" (946)	3'-3 1/4" (997)	3'-7 1/4" (1099)	3'-11 1/4" (1200)
Unit Dimension												

Picture (APW)

2'-0" (610)												
2'-4" (711)												
2'-8" (813)												
3'-0" (914)												
3'-4" (1016)												
3'-8" (1118)												
4'-0" (1219)												
4'-4" (1321)												
4'-8" (1422)												
5'-0" (1524)												
5'-4" (1626)												
5'-8" (1727)												

Wider sizes continue on page 10

Taller sizes continue on page 12

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- † Tempered glass required. Some visual distortion may occur.

Date: 11/07/16
Scale: 1/8" (3) = 1' (305)

Picture Window

	4'-4" (1321)	4'-8" (1422)	5'-0" (1524)	5'-4" (1626)	5'-8" (1727)	6'-0" (1829)	6'-4" (1930)
Rough Opening	4'-3 1/4" (1302)	4'-7 1/4" (1403)	4'-11 1/4" (1505)	5'-3 1/4" (1607)	5'-7 1/4" (1708)	5'-11 1/4" (1810)	6'-3 1/4" (1911)
Unit Dimension							

Picture (APW)

2'-0" (610)							
2'-4" (711)							
2'-8" (813)							
3'-0" (914)							
3'-4" (1016)							
3'-8" (1118)							
4'-0" (1219)							
4'-4" (1321)							
4'-8" (1422)							
5'-0" (1524)							
5'-4" (1626)							
5'-8" (1727)							

Continuation from page 09

Wider sizes continue on page 11

Taller sizes continue on page 13

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Date: 11/07/16
Scale: 1/8" (3) = 1' (305)

		6'-8" (2032)	7'-0" (2134)	7'-4" (2235)	7'-8" (2337)	8'-0" (2438)
		6'-7½" (2013)	6'-11¼" (2115)	7'-3½" (2216)	7'-7½" (2318)	7'-11¼" (2419)
Rough Opening	Unit Dimension	Picture (APW)				
		2'-0" (610)	APW6820	APW7020	APW7420	APW7820
2'-4" (711)	2'-3¼" (692)	APW6824	APW7024	APW7424	APW7824	APW8024
2'-8" (813)	2'-7¼" (794)	APW6828	APW7028	APW7428	APW7828	APW8028
3'-0" (914)	2'-11¼" (895)	APW6830	APW7030	APW7430	APW7830	APW8030
3'-4" (1016)	3'-3¼" (997)	APW6834	APW7034	APW7434	APW7834	APW8034
3'-8" (1118)	3'-7¼" (1099)	APW6838	APW7038	APW7438	APW7838	APW8038
4'-0" (1219)	3'-11¼" (1200)	APW6840	APW7040	APW7440	APW7840	APW8040
4'-4" (1321)	4'-3¼" (1302)	APW6844	APW7044	APW7444	APW7844	APW8044
4'-8" (1422)	4'-7¼" (1403)	APW6848	APW7048	APW7448	APW7848	APW8048
5'-0" (1524)	4'-11¼" (1505)	APW6850	APW7050	APW7450	APW7850	APW8050 †
5'-4" (1626)	5'-3¼" (1607)	APW6854	APW7054	APW7454	APW7854 †	APW8054 †
5'-8" (1727)	5'-7¼" (1708)	APW6858	APW7058	APW7458 †	APW7858 †	APW8058 †

Taller sizes continue on page 14

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 Scale: 1/8" (3) = 1' (305)

Picture Window

	1'-4" (406)	1'-8" (508)	2'-0" (610)	2'-4" (711)	2'-6" (762)	2'-8" (813)	2'-10" (864)	3'-0" (914)	3'-2" (965)	3'-4" (1016)	3'-8" (1118)	4'-0" (1219)
	1'-3 1/4" (387)	1'-7 1/4" (489)	1'-11 1/4" (591)	2'-3 1/4" (692)	2'-5 1/4" (743)	2'-7 1/4" (794)	2'-9 1/4" (845)	2'-11 1/4" (895)	3'-1 1/4" (946)	3'-3 1/4" (997)	3'-7 1/4" (1099)	3'-11 1/4" (1200)
Rough Opening												
Unit Dimension												
6'-0" (1829)	APW1460	APW1860	APW2060	APW2460	APW2660	APW2860	APW21060	APW3060	APW3260	APW3460	APW3860	APW4060
6'-4" (1930)	APW1464	APW1864	APW2064	APW2464	APW2664	APW2864	APW21064	APW3064	APW3264	APW3464	APW3864	APW4064
6'-8" (2032)	APW1468	APW1868	APW2068	APW2468	APW2668	APW2868	APW21068	APW3068	APW3268	APW3468	APW3868	APW4068
7'-4" (2235)	APW1474	APW1874	APW2074	APW2474	APW2674	APW2874	APW21074	APW3074	APW3274	APW3474	APW3874	APW4074
8'-0" (2438)	APW1480	APW1880	APW2080	APW2480	APW2680	APW2880	APW21080	APW3080	APW3280	APW3480	APW3880	APW4080

Picture (APW)

Continuation from page 09

Wider sizes continue on page 13

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Picture Window

		4'-4" (1321)	4'-8" (1422)	5'-0" (1524)	5'-4" (1626)	5'-8" (1727)	6'-0" (1829)	6'-4" (1930)
		4'-3 $\frac{1}{4}$ " (1302)	4'-7 $\frac{1}{4}$ " (1403)	4'-11 $\frac{1}{4}$ " (1505)	5'-3 $\frac{1}{4}$ " (1607)	5'-7 $\frac{1}{4}$ " (1708)	5'-11 $\frac{1}{4}$ " (1810)	6'-3 $\frac{1}{4}$ " (1911)
Rough Opening	Unit Dimension	Picture (APW)						
		Continuation from page 10						
6'-0" (1829)	5'-11 $\frac{1}{4}$ " (1810)							
6'-4" (1930)	6'-3 $\frac{1}{4}$ " (1911)							
6'-8" (2032)	6'-7 $\frac{1}{4}$ " (2013)							
7'-4" (2235)	7'-3 $\frac{1}{4}$ " (2216)							
8'-0" (2438)	7'-11 $\frac{1}{4}$ " (2419)							

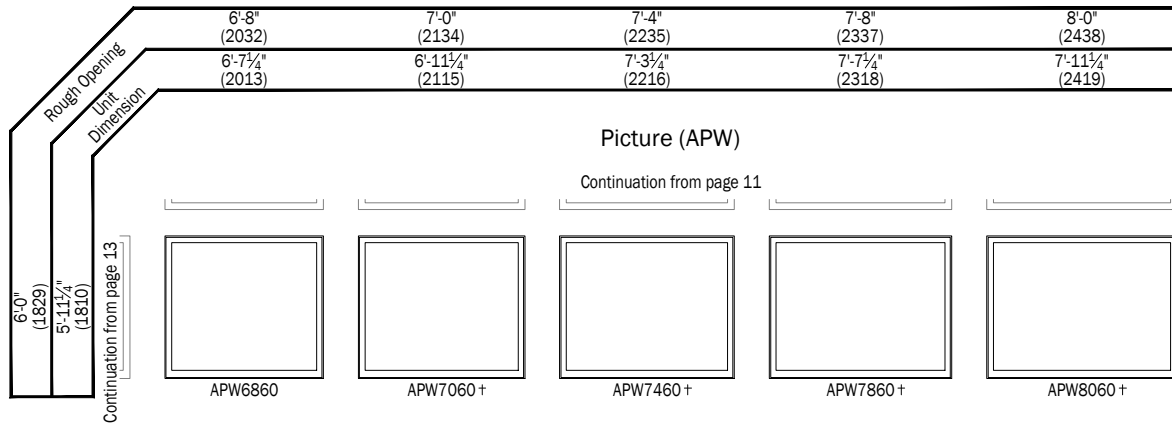
Wider sizes continue on page 14

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Picture Window



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Date: 11/07/16
 Scale: 1/8" (3) = 1' (305)

Transom - Fixed

	4'-4" (1321)	4'-8" (1422)	5'-0" (1524)	5'-4" (1626)	5'-8" (1727)	6'-0" (1829)	6'-4" (1930)
	4'-3 3/4" (1302)	4'-7 1/4" (1403)	4'-11 1/2" (1505)	5'-3 1/2" (1607)	5'-7 1/4" (1708)	5'-11 1/2" (1810)	6'-3 1/4" (1911)
Unit Dimension	1'-0"	1'-4"	1'-8"	1'-12"	1'-6"	1'-10"	1'-4"
Continuation from page 15	ATF4410	ATF4810	ATF5010	ATF5410	ATF5810	ATF6010	ATF6410
	ATF4414	ATF4814	ATF5014	ATF5414	ATF5814	ATF6014	ATF6414
	ATF4416	ATF4816	ATF5016	ATF5416	ATF5816	ATF6016	ATF6416
	ATF4418	ATF4818	ATF5018	ATF5418	ATF5818	ATF6018	ATF6418
	ATF44110	ATF48110	ATF50110	ATF54110	ATF58110	ATF60110	ATF64110
	ATF4420	ATF4820	ATF5020	ATF5420	ATF5820	ATF6020	ATF6420
	ATF4422	ATF4822	ATF5022	ATF5422	ATF5822	ATF6022	ATF6422
	ATF4424	ATF4824	ATF5024	ATF5424	ATF5824	ATF6024	ATF6424
	ATF4426	ATF4826	ATF5026	ATF5426	ATF5826	ATF6026	ATF6426
	ATF4428	ATF4828	ATF5028	ATF5428	ATF5828	ATF6028	ATF6428
	ATF4430	ATF4830	ATF5030	ATF5430	ATF5830	ATF6030	ATF6430
	ATF4434	ATF4834	ATF5034	ATF5434	ATF5834	ATF6034	ATF6434

Wider sizes continue on page 17

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 Scale: 1/8" (3) = 1' (305)

Transom - Fixed

Unit Dimension	Rough Opening				
	6'-8" (2032)	7'-0" (2134)	7'-4" (2235)	7'-8" (2337)	8'-0" (2438)
	6'-7 $\frac{1}{4}$ " (2013)	6'-11 $\frac{1}{4}$ " (2115)	7'-3 $\frac{1}{4}$ " (2216)	7'-7 $\frac{1}{4}$ " (2318)	7'-11 $\frac{1}{4}$ " (2419)
Transom - Fixed (ATF)					
1'-0" (305)	ATF6810	ATF7010	ATF7410	ATF7810	ATF8010
1'-4" (406)	ATF6814	ATF7014	ATF7414	ATF7814	ATF8014
1'-6" (457)	ATF6816	ATF7016	ATF7416	ATF7816	ATF8016
1'-8" (508)	ATF6818	ATF7018	ATF7418	ATF7818	ATF8018
1'-10" (559)	ATF68110	ATF70110	ATF74110	ATF78110	ATF80110
2'-0" (610)	ATF6820	ATF7020	ATF7420	ATF7820	ATF8020
2'-2" (660)	ATF6822	ATF7022	ATF7422	ATF7822	ATF8022
2'-4" (711)	ATF6824	ATF7024	ATF7424	ATF7824	ATF8024
2'-6" (762)	ATF6826	ATF7026	ATF7426	ATF7826	ATF8026
2'-8" (813)	ATF6828	ATF7028	ATF7428	ATF7828	ATF8028
3'-0" (864)	ATF6830	ATF7030	ATF7430	ATF7830	ATF8030
3'-4" (997)	ATF6834	ATF7034	ATF7434	ATF7834	ATF8034

Continuation from page 16

Notes:

"Unit Dimension" always refers to outside frame to frame dimension.
 "Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.
 Dimensions in parentheses are in millimeters.

Date: 11/07/16
 Scale: 1/8" (3) = 1' (305)

Transom - Venting

	1'-8" (508)	2'-0" (610)	2'-4" (711)	2'-6" (762)	2'-8" (813)	2'-10" (864)	3'-0" (914)	3'-2" (965)	3'-4" (1016)	3'-8" (1118)	4'-0" (1219)
Rough Opening	1'-7 $\frac{1}{4}$ " (489)	1'-11 $\frac{1}{4}$ " (591)	2'-3 $\frac{1}{4}$ " (692)	2'-5 $\frac{1}{4}$ " (743)	2'-7 $\frac{1}{4}$ " (794)	2'-9 $\frac{1}{4}$ " (845)	2'-11 $\frac{1}{4}$ " (895)	3'-1 $\frac{1}{4}$ " (946)	3'-3 $\frac{1}{4}$ " (997)	3'-7 $\frac{1}{4}$ " (1099)	3'-11 $\frac{1}{4}$ " (1200)
Unit Dimension	1'-4" (406)	1'-6" (457)	1'-8" (508)	1'-10" (559)	1'-11 $\frac{1}{4}$ " (591)	1'-1 $\frac{1}{4}$ " (641)	1'-3 $\frac{1}{4}$ " (692)	1'-5 $\frac{1}{4}$ " (743)	1'-7 $\frac{1}{4}$ " (794)	1'-9 $\frac{1}{4}$ " (845)	1'-11 $\frac{1}{4}$ " (895)

Transom - Venting (ATV)

ATV1814	ATV2014	ATV2414	ATV2614	ATV2814	ATV21014	ATV3014	ATV3214	ATV3414	ATV3814	ATV4014
ATV1816	ATV2016	ATV2416	ATV2616	ATV2816	ATV21016	ATV3016	ATV3216	ATV3416	ATV3816	ATV4016
ATV1818	ATV2018	ATV2418	ATV2618	ATV2818	ATV21018	ATV3018	ATV3218	ATV3418	ATV3818	ATV4018
ATV18110	ATV20110	ATV24110	ATV26110	ATV28110	ATV210110	ATV30110	ATV32110	ATV34110	ATV38110	ATV40110
ATV1820	ATV2020	ATV2420	ATV2620	ATV2820	ATV21020	ATV3020	ATV3220	ATV3420	ATV3820	ATV4020
ATV1822	ATV2022	ATV2422	ATV2622	ATV2822	ATV21022	ATV3022	ATV3222	ATV3422	ATV3822	ATV4022
ATV1824	ATV2024	ATV2424	ATV2624	ATV2824	ATV21024	ATV3024	ATV3224	ATV3424	ATV3824	ATV4024
ATV1826	ATV2026	ATV2426	ATV2626	ATV2826	ATV21026	ATV3026	ATV3226	ATV3426	ATV3826	ATV4026
ATV1828	ATV2028	ATV2428	ATV2628	ATV2828	ATV21028	ATV3028	ATV3228	ATV3428	ATV3828	ATV4028

Wider sizes continue on page 19

Notes:

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 Scale: 1/8" (3) = 1' (305)

Transom - Venting

		4'-4"	4'-8"	5'-0"	5'-4"	5'-8"	6'-0"
		(1321)	(1422)	(1524)	(1626)	(1727)	(1829)
		4'-3½"	4'-7½"	4'-11½"	5'-3½"	5'-7½"	5'-11½"
		(1302)	(1403)	(1505)	(1607)	(1708)	(1810)
Unit Dimension	Rough Opening						
	Unit Dimension						
1'-4"	(406)	ATV4414	ATV4814	ATV5014	ATV5414	ATV5814	ATV6014
1'-6"	(457)	ATV4416	ATV4816	ATV5016	ATV5416	ATV5816	ATV6016
1'-8"	(508)	ATV4418	ATV4818	ATV5018	ATV5418	ATV5818	ATV6018
1'-10"	(559)	ATV44110	ATV48110	ATV50110	ATV54110	ATV58110	ATV60110
2'-0"	(610)	ATV4420	ATV4820	ATV5020	ATV5420	ATV5820	ATV6020
2'-2"	(660)	ATV4422	ATV4822	ATV5022	ATV5422	ATV5822	ATV6022
2'-4"	(711)	ATV4424	ATV4824	ATV5024	ATV5424	ATV5824	ATV6024
2'-6"	(762)	ATV4426	ATV4826	ATV5026	ATV5426	ATV5826	ATV6026
2'-7¼"	(794)	ATV4428	ATV4828	ATV5028	ATV5428	ATV5828	ATV6028

Notes:

"Unit Dimension" always refers to outside frame to frame dimension.
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 Dimensions in parentheses are in millimeters.

Date: 11/07/16
 Scale: 1/8" (3) = 1' (305)