



Sierra Pacific Windows - Clad Product (Non-Impact) Casement Operator, Pictures & Awnings

8/10/2017	Product	Size/Unit Type Tested	Performance Grade	Load	Water (PSF)	Air Inf/Exf/ CAN Inf/Exf Level	Comments -Required Upgrades	Test Report	Hallmark CCL #	FBC #	TDI #
Clad Casement (Includes Radius, French and Pushout)	Clad Casement Operator	WI 28.188"x84.188" (Single Units Only)	CW-PG35	+35/-45	5.43	0.01/0.01/A3	None	TCT004982P-0200 Rev B	436-H-105.38	14383.1	WIN-1269
	Clad Casement Operator	WI 36"x84" Single Units Only	CW-PG50	+50/-50	7.52	.01/.01/A3	None	ESP025100P-2134	436-H-105.53		
	Clad Casement Operator	WI 36.25"x72.25" (Single/Mulled Units)	CW-PG50	+50/-50	7.52	0.01/0.02/A3	None	E0618.01-602-44	436-H-105.39	17263.4	
	Clad Casement Operator	WI 28.188"x96.188" (Single/Mulled Units)	CW-PG25	+25/-25	3.76	0.01/0.02/A3	None	ESP017804P-1612	436-H-105.41	17506.1	
	Clad Arch Top Casement Operator	WI 36.19"x72.19" (Single Units Only)	CW-PG50	+50/-65	7.52	0.01/0.18/A3	None	ESP016461P-1553	436-H-105.40	17263.1	
	Clad Springline Casement Operator	WI 36.19"x72.19" (Single Units Only)	CW-PG45	+45/-45	6.89	0.07/0.19/A3	None	ESP018511P-1656	436-H-105.42	17506.2	
	Clad French Casement Operator	WI 72.5"x60.25" (Single Units Only)	LC-PG50	+50/-50	7.52	0.01/0.02/A3	None	ESP018731P-1671	436-H-105.44	19272.2	
	Clad French Casement Operator	WI 72.5"x72.25" (Single Units Only)	LC-PG40	+45/-45	6.06	0.01/0.1/A3	None	ESP018730P-1670	436-H-105.43	19272.1	
	Clad Pushout Casement Operator	WI 36.19"x72.19" (Single/Mulled Units)	CW-PG35	+35/-35	5.43	0.01/0.06/A3	None	ESP022132P-1862 Rev A	436-H-105.45	FL20064.2	
	Clad Pushout Casement Operator	WI 36.19"x72.19" (Single/Mulled Units)	CW-PG50	+50/-55	7.52	0.01/0.06/A3	Aluminum Nail Fin	ESP022132P-1862 Rev A	436-H-105.46	FL20064.2	
	Clad Sedona Casement Operator	CA 36"x84" (Single Unit Only)	CW-PG45	+45.10/-45.10	6.89	0.14/0.15/A2	w/Multi Point Hardware	A2828.01-901-44	429-H-487.00		
	Clad Casement Operator	CA 30"x60" (Single Unit Only)	R-PG55	+55.14/-55.14	8.35	0.01/0.01/A3	Dyad Operator	B4939.01-901-44-R0	429-H-515.00		
	Clad Casement Operator	CA 32"x84" (Single Unit Only)	CW-PG35	+35.09/-35.09	5.43	0.01/0.01/A3	Single Arm Operator, Piano Hinge	B8316.01-901-44	429-H-540.02		
	Clad Casement Operator	CA 32"x72" (Single Unit Only)	CW-PG45	+45.11/-45.11	6.89	0.01/0.01/A3	Single Arm Operator, Piano Hinge	B8316.01-901-44	429-H-541.02		
	Clad Casement Operator	CA 32"x84" (Single Unit Only)	CW-PG35	+35.09/-35.09	5.43	0.01/0.01/A3	Single Arm Operator, Butt Hinge	B8317.01-901-44	429-H-542.04		
	Clad Casement Operator	CA 32"x72" (Single Unit Only)	CW-PG45	+45.11/-45.11	6.89	0.01/0.01/A3	Single Arm Operator, Butt Hinge	B8317.01-901-44	429-H-542.05		
	Clad Casement Operator	CA 32"x84" (Single Unit Only)	CW-PG35	+35.09/-35.09	5.43	0.01/0.01/A3	Dyad Operator	B8318.01-901-44	429-H-547.06		
	nt	Clad Casement Operator	CA 32"x72" (Single Unit Only)	CW-PG40	+40.10/-40.10	6.06	0.01/0.01/A3	Dyad Operator	B8318.01-901-44	429-H-547.07	

Clad Caseme Cont.	Clad Casement Operator	CA	32"x72" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.01/0.01/A3	Reverse Dyad Operator	B8319.01-901-44	429-H-547.08		
	Clad Casement Operator	CA	36"x84" (Single Unit Only)	CW-PG30	+30.08/- 30.08	4.59	0.01/0.01/A3		C9122.01-901-44	429-H-554.08		
	Clad Casement Operator	CA	36"x72" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.01/0.01/A3		C9121.01-901-44	429-H-554.06		
Clad Aspen Casement	Clad Aspen CSE Oper	CA	68"x84" (Mulled Unit)	CW-PG40	+40.10/- 40.10	6.06	0.02/0.02/A3	Dual Arm/Reverse Dyad	A2816.01-901-44	429-H-492.00		
	Clad Aspen CSE Oper	CA	36"x84" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.02/0.02/A3	Dual Arm Operator	A2816.01-901-44	429-H-492.01		
	Clad Aspen CSE Oper	CA	32"x84" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.02/0.02/A3	Reverse Dyad Operator	A2816.01-901-44	429-H-492.02		
	Clad Aspen CSE Oper	CA	30"x60" (Single Unit Only)	R-PG55	+55.14/- 55.14	8.35	0.01/0.01/A3	Dyad Operator	B4938.01-901-44	429-H-492.03		
	Clad Aspen CSE Oper	CA	32"x84" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.04/0.04/A3	Dyad Operator	A2821.01-901-44	429-H-492.04		
	Clad Aspen CSE Oper	CA	32"x84" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.04/0.03/A3	Single Arm, Butt Hinge	A2818.01-901-44	429-H-492.05		
	Clad Aspen CSE Oper	CA	32"x84" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.01/0.01/A3	Single Arm, Piano Hinge	A2818.01-901-44	429-H-492.06		
	Clad Aspen CSE Oper	CA	32"x84" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.04/0.03/A3	Short Arm, Butt Hinge	A2826.01-901-44	429-H-492.07		
	Clad Aspen CSE Oper	CA	32"x84" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.02/0.02/A3	Short Arm, Piano Hinge	A2826.01-901-44	429-H-492.08		
	Clad Aspen CSE Oper	CA	36"x72" (Single Unit Only)	CW-PG40	+40.10/- 40.10	6.06	0.01/0.01/A3	Dual Arm Operator and Triple Insulated Glass	A2831.01-901-44	429-H-492.09		
Clad Casement Aspen 2.0	Clad Aspen 2.0 Casement Operator	CA	36"x84" (Single Unit Only)	CW-PG55	+55.14/- 55.14	8.35	0.02/0.03/A3	Reverse Dyad Operator	G3344.01-901-47	429-H-560.00	22234.1	
	Clad Aspen 2.0 Casement Operator	CA	42"x76" (Single Unit Only)	CW-PG50	+50.13/- 50.13	7.52	0.02/0.01/A3	HP Hinge and HP Dual Arm Oper	G3339.01-901-47	429-H-560.03	22234.2	
	Clad Aspen 2.0 Casement Operator	CA	38"x84" (Single Unit Only)	CW-PG50	+50.13/- 50.13	7.52	0.01/0.01/A3	HP Hinge and HP Dual Arm Oper and Triple Insulated Glass	G3339.01-901-47	429-H-560.06	22234.3	
	Clad Aspen 2.0 Casement Operator	CA	36"x84" (Single Unit Only)	CW-PG55	+55.13/- 55.13	8.35	0.02/0.03/A3	Dual Arm Oper	G3341.01-901-47	429-H-560.09	22234.4	
	Clad Aspen 2.0 Casement Operator	CA	36"x72" (Single Unit Only)	CW-PG65	+65.16/- 65.16	9.82	0.01/0.01/A3	Dual Arm Oper and Triple Insulated Glass	G3341.01-901-47	429-H-560.12	22234.5	
	Clad Aspen 2.0 Casement Operator	CA	32"x84" (Single Unit Only)	CW-PG50	+50.13/- 50.13	7.52	0.03/0.02/A3	Single Arm Oper & Butt Hinge	G3345.01-901-47	429-H-560.15	22234.6	
	Clad Aspen 2.0 Casement Operator	CA	32"x84" (Single Unit Only)	CW-PG50	+50.13/- 50.13	7.52	0.01/0.01/A3	Single Arm Oper & Piano Hinge	G3345.01-901-47	429-H-560.18	22234.7	

Clad Casement Aspen 2.0 Cont.	Clad Aspen 2.0 Casement Operator	CA	38"x96" (Single Unit Only)	CW-PG65	+65.16/-65.16	9.82	0.01/0.01/A3	HP Hinge and HP Dual Arm Oper	G4650.01-901-44-r2	429-H-560.21	22234.8	
	Clad Aspen 2.0 Casement Operator	CA	32"x84" (Single Unit Only)	CW-PG50	+50.13/-50.13	7.52	0.03/0.02/A3	6" Single Arm Oper & Butt Hinges	G3347.01-901-147	429-H560.24	22234.9	
	Clad Aspen 2.0 Casement Operator	CA	36"x84" (Single Unit Only)	CW-PG55	+55.14/-55.14	8.35	0.02/0.03/A3	Dyad Operator	G3343.01-901-47	429-H560.27	22234.1	
	Clad Aspen 2.0 Casement Mull	CA	38"x78" Multi Wide	CW-PG45	+45.11/-45.11	6.89	0.01/0.01	None	G7155.01-901-47	429-H-560.30		
	Clad Aspen 2.0 Casement Mull	CA	38"x96" Multi-Wide	CW-PG65	+65.16/-65.16	9.82	0.01/0.01	AAMA 450-10-1/4" Steel Plate Mull	G7217.01-901-47-r0	429-H-560.32		
	Clad Aspen 2.0 Casement Mull	CA	36"x84" Multi-Wide	CW-PG40	+40.10/-40.10	6.06	0.01/0.01	None	G6691.01-901-47-r1	429-H-560.33		
	Clad Aspen 2.0 3-Wide Oper/F/Oper w/3-Wide Transom Mull	CA	36"x84" w/36"x36" Transom	CW-PG40	+40.10/-40.10	6.06	0.01/0.01	1/4" Horizontal Steel Plate Mull	G7154.01-901-47-r0	429-H-560.31		
H3 2.0 Casement	H3 2.0 Casement Operator	WI	35.5"x83.5" (Single Units Only)	R-PG50	+50/-60	7.52	0.01/0.01/A3	None	ESP022400P-1899	436-H-660.31	FL20064.3	
	H3 2.0 Casement Operator	WI	35.5"x83.5" (Single Units Only)	CW-PG50	+50/-60	7.52	0.01/0.01/A3	Requires Limit Device to Meet Hardware Load for CW Performance Class	ESP022400P-1899	436-H-660.33	FL20064.4	
	H3 2.0 Casement Operator w/Transom (2W2H Composite Mull)	WI	70.5"x95" (2-Wide 35.5X72/35.5x24)	LC-PG45	+45/-45	6.89	0.02/0.01/A3	Requires Factory or Field-Applied Installation Straps Attached at Sides & Bottom of Each Mull	ESP023258P-1989.01	436-H-660.44	21966.7	
	H3 2.0 Casement Operator w/Transom (2W2H Composite Mull)	WI	70.5"x95" (2-Wide 35.5X72/35.5x24)	LC-PG35	+35/-35	5.43	0.02/0.01/A3	None (Nail Fin Install; Factory Horizontal Tight Mull)	ESP023258P-1989.01	436-H-660.42	21966.8	
	H3 2.0 Casement Operator (Standard)	WI	105.5"x83.5" (3-Wide Operator; 35.5"x83.5" Ind)	R-PG35	+35/-35	5.43	0.02/0.01/A3	None	ESP022568P-1913	436-H-660.68	21436.3	
	H3 2.0 Casement Operator (HP)	WI	105.5"x83.5" (3-Wide Operator; 35.5"x83.5" Ind)	R-PG50	+50/-55	7.52	0.02/0.01/A3	Requires Factory or Field-Applied Installation Straps Attached at Top & Bottom of Impost Mull	ESP022568P-1913	436-H-660.64	21436.4	
	H3 2.0 2-Wide Casement w/2-Wide Transom	WI	71"x95" (2-Wide 36"x72"/36"x24")	LC-PG50	+50/-50	7.52	0.01/0.01/A3	Requires Horizontal 1/4" Aluminum Plate Mull	ESP023690P-2038	436-H-660.58	21436.2	
	H3 2.0 3-Wide (Oper-Pict-Oper)	WI	117.5"x71.5" (30"/60"/30"x72")	LC-PG35	+35/-35	5.43	0.02/0.01/A3	None	ESP022825P-1937	436-H-660.46	21154.4	
	H3 2.0 3-Wide (Oper-Pict-Oper)	WI	117.5"x71.5" (30"/60"/30"x72")	LC-PG50	+50/-55	7.52	0.02/0.01/A3	Requires Factory or Field-Applied Installation Straps Attached at Top & Bottom of Impost Mull	ESP022825P-1937	436-H-660.47	21154.5	

H3 2.0 Casement Cont.	H3 2.0 Triple Oper/w/Transom) Horizontal Tight Mull	WI	106"x95" (3-Wide 36"x72" Oper; 3-Wide 36"x24")	LC-PG25	+25/-25	3.76	0.02/0.01/A3	None (Nail Fin Install; Factory Horizontal Tight Mull)	ESP023329P-1997	436-H-660.40	21966.6	
	H3 2.0 Triple Oper/w/Transom) 1/4"Horizontal Alum Plate Mull	WI	106"x95" (3-Wide 36"x72" Oper; 3-Wide 36"x24")	LC-PG35	+35/-35	5.43	0.01/0.01/A3	Require Horizontal 1/4" Aluminum Plate Mull	ESP023503P-2024	436-H-660.56	21436.1	
	H3 2.0 Triple Oper-Pict- Oper/w/Transom) Horizontal Aluminum Plate Mull	WI	106"x95" (3-Wide 36"x72" Oper; 3-Wide 36"x24")	LC-PG45	+45/-45	6.89	0.01/0.01/A3	Require Horizontal 1/4" Aluminum Plate Mull and Installation Straps Attached at Top & Bottom of Impost Mulls & Either Side of the Horizontal Mull	ESP023503P-2024.01	436-H-660.61	21436.5	
	H3 2.0 Triple Oper-Pict- Oper/w/Transom) Horizontal Steel Plate Mull	WI	106"x95" (3-Wide 36"x72" Oper; 3-Wide 36"x24")	LC-PG50	+50/-50	7.52	0.01/0.01/A3	Require Horizontal 1/4" Steel Plate Mull and Installation Straps Attached at Top & Bottom of Impost Mulls & Either Side of the Horizontal Mull	ESP023931P-2053	436-H-660.85	21966.5	
Clad CSE Aspen Fixed	Clad Casement Picture (Aspen)	CA	56"x72"	LC-PG40	+40.13/-40.13	6.06	0.01/0.01/FIXED	Triple Insulated Glass	A2839.01-901-44	429-H-482.00		
Clad Aspen 2.0 Fixed	Clad Aspen 2.0 Fixed	CA	48"x84" (Single Unit Onlt)	CW-PG65	+65.16/-65.16	9.82	0.01/0.01/FIXED	Triple Insulated Glass	G3349.01-901-47	429-H-562.00	22043.2	
	Clad Aspen 2.0 Fixed	CA	56"x72" (Single Unit Onlt)	CW-PG65	+65.16/-65.16	9.82	0.01/0.01/FIXED	Triple Insulated Glass	G3349.01-901-47	429-H-562.03	22043.3	
	Clad Aspen 2.0 Fixed	CA	84"x96" (Single Unit Onlt)	CW-PG50	+50.13/-50.13	7.52	0.01/0.01/FIXED		G3349.01-901-47	429-H-562.06	22043.4	
	Clad Aspen 2.0 Transom	CA	96"x75"	CW-PG50	+50.13/-50.13	7.52	0.01/0.01/FIXED		G7153.01-901-47-r0	429-H-562.09	22043.5	
Clad CSE Fixed	Clad Casement Pict w/A Sash	CA	78" x 75"	CW-PG40	+40.10/-40.10	6.06	0.01/0.01/FIXED		A7039.01-901-44	429-H-511.00		
	Clad Casement Picture	CA	72"x60"	CW-PG50	+50.13/-50.13	7.52	0.01/0.01/A3		B4969.01-901-44	429-H-521.00		
	Clad Casement Picture	WI	72.188"x84.188" (Single Units Only)	CW-PG50	+50/-55	7.52	0.01/0.01/A3	None	ESP019655P-1707	436-H-109.15	19297.4	
	Clad Springline Casement Picture	WI	72.188"x72.188" (Single Units Only)	CW-PG50	+50/-65	7.52	0.01/0.01/A3	None	ESP018853P-1679	436-H-109.17	19297.3	Pending

H3 2.0 Casement Picture	H3 2.0 Casement Picture	WI	71.5"x83.5" (Single Units Only)	CW-PG35	+35/-35	5.43	0.01/0.01/A3	None	ESP022465P-1904	436-H-660.35	21160.8	
	H3 2.0 Casement Picture	WI	71.5"x83.5" (Single Units Only)	CW-PG50	+50/-55	7.52	0.01/0.01/A3	Requires (3) #7x3" Trim Through-Frame Screws Through Each Side Jamb and 2 Each Through Head & Sill Jamb	ESP022465P-1904	436-H-660.37	20655.1	
	H3 2.0 Casement Operator w/Transom (2W2H Composite Mull)	WI	70.5"x95" (2-Wide 35.5X72/35.5x24)	LC-PG45	+45/-45	6.89	0.02/0.01/A3	Requires Factory or Field-Applied Installation Straps Attached at Sides & Bottom of Each Mull	ESP023258P-1989.01	436-H-660.44	Pending	
	H3 2.0 Triple Oper/w/Transom Horizontal Tight Mull	WI	106"x95" (3-Wide 36"x72" Oper; 3-Wide 36"x24")	LC-PG25	+25/-25	3.76	0.02/0.01/A3	None (Nail Fin Install; Factory Horizontal Tight Mull)	ESP023329P-1997	436-H-660.40	Pending	
Clad Awning	Clad Awning Operator	WI	48.19"x48.19" (Single Units Only)	CW-PG50	+50/-50	7.52	0.01/0.01/A3	None	ESP019331P-1700	436-H-103.28	19280.1	WIN-1268
	Clad Awning Operator	WI	60.19"x32.19" (Single Units Only)	CW-PG50	+50/-50	7.52	0.01/0.01/A3	None	ESP019332P-1701	436-H-103.25	19280.2	WIN-1268
	Clad Awning Operator	CA	48"x54" (Single Unit Only)	CW-PG50	+50.13/-50.13	7.52	0.01/0.03/A3	Defender Hinges	B4942.01-901-44	429-H-525.00		
	Clad Awning Operator (Narrow Sash)	CA	48"x42" (Single Unit Only)	CW-PG55	+55.14/-55.14	8.35	0.01/0.03/A3		B4943.01-901-44	429-H-525.02		
	Clad Sedona Awning Operator	CA	48"x36" (Single Unit Only)	CW-PG30	+30.08/-30.08	4.59	0.01/0.01/A3		B8320.01-901-44	429-H-548.02		
Clad Aspen Awning	Clad Aspen Awning Operator	CA	60"x36" (Single Unit Only)	LC-PG40	+40.13/-40.13	6.06	0.05/0.05/A3		A2836.01-901-44	429-H-481.00		
	Clad Aspen Awning Operator	CA	54"x48" (Single Unit Only)	CW-PG40	+40.10/-40.10	6.06	0.02/0.01/A3		A2835.01-901-44	429-H-481.01		
	Clad Aspen Awning Operator	CA	60"x58" (Single Unit Only)	CW-PG50	+50.13/-50.13	7.52	0.01/0.03/A3	Defender Hinges	B4941.01-901-44	429-H-523.00		
	Clad Aspen Awning Operator	CA	48"x42" (Single Unit Only)	CW-PG55	+55.14/-55.14	8.35	0.01/0.03/A3		B944.01-901-44	429-H-523.02		
Clad Aspen 2.0 AWN	Clad Aspen 2.0 Awning Operator	CA	60"x36" (Single Unit Only)	CW-PG65	+65.16/-65.16	9.82	0.02/0.01/A3		G3351.01-901-47	429-H-561.00	22229.1	
	Clad Aspen 2.0 Awning Operator	CA	60"x60" (Single Unit Only)	CW-PG65	+65.16/-65.16	9.82	0.02/0.02/A3	With or w/o 6" ADA Handle, w/Secure Hinge	G3351.01-901-47	429-H-561.03	22229.2	
	Clad Aspen 2.0 Awning/ Picture	CA	36"x24"-2 w/72"x60" Pict Above	CW-PG40	+40.10/-40.10	6.06	0.01/0.01	None	G7432.01-901-47	429-H-561.06		
	Clad Aspen 2.0 Awning/ Picture	CA	60"x60" Multi-Wide	CW-PG50	+50.13/-50.13	7.52	0.01/0.01	None	G7152.01-901-47-r0	429-H-561.07		
	Clad Aspen 2.0 Awning/ Picture	CA	42"x24"-2 w/84"x72" Pict Above	CW-PG50	+50.13/-50.13	7.52	0.01/0.02	1/4" Horizontal Steel Plate Mull	G7151.01-901-47-r1	429-H-561.08		

H3 2.0 Awning	H3 2.0 Awning Operator	WI	48"x48" (Single Units Only)	CW-PG50	+50/-50	7.52	0.01/0.01/A3	None	ESP022489P-1907	436-H-659.10	20511.1 & 21152.3	
	H3 2.0 Awning Twin Operator	WI	95"x36" (Single & Twin Units Only)	CW-PG50	+50/-55	7.52	0.03/0.01/A3	Requires Factory or Field-Applied Installation Straps Attached at Top & Bottom of Impost Mull	ESP023331P-1999	436-P-659.22	21431.1	
	H3 2.0 Awning Twin Operator (Standard)	WI	95"x48" (Single & Twin Units Only)	CW-PG35	+35/-35	5.43	0.03/0.01/A3	None	ESP023257P-1988	436-H-659.12	21152.4	
	H3 2.0 Awning Twin Operator (HP)	WI	95"x48" (Single & Twin Units Only)	CW-PG45	+50/-45	6.89	0.03/0.01/A3	Requires Factory or Field-Applied Installation Straps Attached at Top & Bottom of Impost Mull	ESP023257P-1988	436-H-659.14	21152.5	
	H3 2.0 3-Wide Awning Operator (Standard)	WI	120"x48"	CW-PG35	+35/-35	5.43	0.01/0.01/A3	None	ESP023456P-2017	436-H-659.16	21431.2	
	H3 2.0 3-Wide Awning Operator (HP)	WI	120"x48"	CW-PG50	+50/-50	7.52	0.01/0.01/A3	Requires Factory or Field-Applied Installation Straps Attached at Top & Bottom of Impost Mull	ESP023456P-2017	436-H-659.19	21431.3	
Clad BiFold WDW	Clad Outswing BiFold Window	CA	183"x88"	PG30			//		E6731.01-901-44	439-H-556.00		

* Muller units tested as box muller units can be muller multiple wide. Dimension given is the tested specimen size.

Only units that fall within the tested size/configuration shown are certified and approved the design pressure(s) stated above. Units that fall outside these limitations may be certified/rated for design pressure via engineering analysis. Contact ASG for details.