

# NFRC Product Certification Authorization Report



**Manufacturer:** Lawson Industries      **Product Series:** 3000/3200 Outswing Casement      **Simulation Lab:** SFTL      **Initial Cert. Date:** 05/16/2007  
**Street:** 8501 NW 90th Street      **Product Type:** CSSV      **Sim. Report #:** 9051-2      **Re-Certification Date:** 08/29/2016  
**City/State/Zip:** Medley, FL 33166      **Air Leakage:**      **Sim. Report Date:** 08/18/2016      **Revised Date:** 12/08/2017  
**Print Date:** 08/09/2018      **VR (Standard Screen):**      **Test Date:** 07/23/2016      **Expiration Date:** 07/23/2021  
**VR (Enhanced Screen):**

CPD Number: LAW-A-3

IA: American Architectural Manufacturers Association

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00062-00001	1/8 Clear - Air - 1/8 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		CL	0.78	0.54	0.55	19
	00062-00002	1/8 Clear - Air - 1/8 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		CL	0.78	0.54	0.55	19
	00062-00003	1/8 Green - Air - 1/8 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		GR	0.78	0.43	0.50	19
	00062-00004	1/8 Green - Air - 1/8 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		GR	0.78	0.43	0.50	19
	00062-00005	1/8 Bronze - Air - 1/8 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		BR	0.78	0.44	0.41	19
	00062-00006	1/8 Bronze - Air - 1/8 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		BR	0.78	0.44	0.41	19
	00062-00007	1/8 Gray - Air - 1/8 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		GY	0.78	0.42	0.36	19
	00062-00008	1/8 Gray - Air - 1/8 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		GY	0.78	0.42	0.36	19
	00062-00009	3/16 Clear - Air - 3/16 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		CL	0.78	0.52	0.54	19
	00062-00010	3/16 Clear - Air - 3/16 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		CL	0.78	0.52	0.54	19
	00062-00011	3/16 Green - Air - 3/16 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		GR	0.78	0.38	0.47	19
	00062-00012	3/16 Green - Air - 3/16 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		GR	0.78	0.38	0.47	19
	00062-00013	3/16 Bronze - Air - 3/16 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		BR	0.78	0.39	0.35	19
	00062-00014	3/16 Bronze - Air - 3/16 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		BR	0.78	0.39	0.35	19
	00062-00015	3/16 Gray - Air - 3/16 Clear	AL/AL	2		0.250	A8-S	Fill 1: AIR (100)	N		GY	0.78	0.37	0.30	19
	00062-00016	3/16 Gray - Air - 3/16 Clear	AL/AL	2		0.250	P1-S	Fill 1: AIR (100)	N		GY	0.78	0.37	0.30	19
	00063-00001	3/16 Solarban Z50 - Air - 3/16 Clear	AL/AL	2	0.035(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.26	0.36	20
	00063-00002	3/16 Solarban Z50 - Air - 3/16 Clear	AL/AL	2	0.035(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.26	0.36	20
	00064-00001	1/8 E2 - Air - 1/8 Clear	AL/AL	2	0.202(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.72	0.46	0.50	19
	00064-00002	1/8 E2 - Air - 1/8 Clear	AL/AL	2	0.202(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.72	0.46	0.50	19
	00064-00003	3/16 E2 - Air - 3/16 Clear	AL/AL	2	0.202(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.72	0.45	0.50	19
	00064-00004	3/16 E2 - Air - 3/16 Clear	AL/AL	2	0.202(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.72	0.45	0.50	19
	00065-00001	1/8 Clear	AL/AL	1			N		N		CL	1.09	0.60	0.60	11

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**VR (Enhanced Screen):**

CPD Number: LAW-A-3

IA: American Architectural Manufacturers Association

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00065-00002	1/8 Green	AL/AL	1			N		N		GR	1.09	0.50	0.55	11
	00065-00003	1/8 Bronze	AL/AL	1			N		N		BR	1.09	0.51	0.44	11
	00065-00004	1/8 Gray	AL/AL	1			N		N		GY	1.09	0.50	0.41	11
	00065-00005	3/16 Clear	AL/AL	1			N		N		CL	1.09	0.59	0.60	11
	00065-00006	3/16 Green	AL/AL	1			N		N		GR	1.09	0.46	0.53	11
	00065-00007	3/16 Bronze	AL/AL	1			N		N		BR	1.09	0.47	0.39	11
	00065-00008	3/16 Gray	AL/AL	1			N		N		GY	1.09	0.45	0.33	11
	00065-00009	1/4 Clear	AL/AL	1			N		N		CL	1.09	0.58	0.59	11
	00065-00010	1/4 Green	AL/AL	1			N		N		GR	1.09	0.44	0.51	11
	00065-00011	1/4 Bronze	AL/AL	1			N		N		BR	1.09	0.44	0.36	11
	00065-00012	1/4 Gray	AL/AL	1			N		N		GY	1.09	0.42	0.30	11
	00066-00001	1/8 LoE 366 - Air - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.43	19
	00066-00002	1/8 LoE 366 - Air - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.43	19
	00067-00001	1/8 LoE 270 - Air - 1/8 Clear	AL/AL	2	0.037(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.28	0.47	19
	00067-00002	1/8 LoE 270 - Air - 1/8 Clear	AL/AL	2	0.037(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.28	0.47	19
	00068-00001	1/8 LoE 240 - Air - 1/8 Clear	AL/AL	2	0.057(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.21	0.27	19
	00068-00002	1/8 LoE 240 - Air - 1/8 Clear	AL/AL	2	0.057(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.21	0.27	19
	00069-00001	1/8 LoE 366 - Arg - 1/8 Clear	AL/AL	2	0.22(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.21	0.43	19
	00069-00002	1/8 LoE 366 - Arg - 1/8 Clear	AL/AL	2	0.22(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.21	0.43	19
	00070-00001	1/8 LoE 270- Arg - 1/8 Clear	AL/AL	2	0.037(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.28	0.47	19
	00070-00002	1/8 LoE 270- Arg - 1/8 Clear	AL/AL	2	0.037(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.28	0.47	19
	00071-00001	1/8 LoE 240 - Arg - 1/8 Clear	AL/AL	2	0.057(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.66	0.20	0.27	19
	00071-00002	1/8 LoE 240 - Arg - 1/8 Clear	AL/AL	2	0.057(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.66	0.20	0.27	19
	00072-00001	1/8 Clear - 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.05	0.54	0.58	14

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00072-00002	1/8 Bronz - 090 PVB - 1/8 Clear	AL/AL	1			N		N		BR	1.05	0.47	0.44	14
	00072-00003	1/8 GY - 090 PVB - 1/8 Clear	AL/AL	1			N		N		GY	1.05	0.45	0.40	14
	00072-00004	1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	1			N		N		GY	1.05	0.34	0.07	14
	00072-00005	1/8 Clear - 090 bronze PVB - 1/8 Clear	AL/AL	1			N		N		BR	1.05	0.34	0.08	14
	00072-00006	3/16 Clear - 090 PVB- 3/16 Clear	AL/AL	1			N		N		CL	1.05	0.52	0.58	14
	00072-00007	3/16 Bronze - 090 PVB - 3/16 Clear	AL/AL	1			N		N		BR	1.05	0.42	0.38	14
	00072-00008	3/16 Gray - 090 PVB - 3/16 Clear	AL/AL	1			N		N		GY	1.05	0.40	0.33	14
	00072-00009	3/16 Clear - 090 Gray PVB - 3/16 Clear	AL/AL	1			N		N		GY	1.05	0.33	0.08	14
	00072-00010	3/16 Clear - 090 Bronze PVB - 3/16 Clear	AL/AL	1			N		N		BR	1.05	0.29	0.04	14
	00072-00011	1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	1			N		N		GY	1.05	0.49	0.50	14
	00072-00012	3/16 Clear - 090 Gray PVB - 3/16 Clear	AL/AL	1			N		N		GY	1.05	0.47	0.49	14
	00073-00001	1/8 LoE 366 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.69	0.21	0.42	20
	00073-00002	1/8 LoE 366 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.69	0.21	0.42	20
	00073-00003	1/8 LoE 366 -AIR- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.69	0.18	0.25	20
	00073-00004	1/8 LoE 366 -AIR- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.69	0.18	0.25	20
	00073-00005	1/8 LoE 366 -AIR- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.69	0.20	0.21	20
	00073-00006	1/8 LoE 366 -AIR- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.69	0.20	0.21	20
	00074-00001	1/8 LoE 270 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.037(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.69	0.27	0.45	20
	00074-00002	1/8 LoE 270 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.037(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.69	0.27	0.45	20

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Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.	
	00075-00001	1/8 LoE 240 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.057(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.20	0.26	20	
	00075-00002	1/8 LoE 240 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.057(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.20	0.26	20	
	00076-00001	1/8 LoE 366 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.21	0.42	20	
	00076-00002	1/8 LoE 366 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.21	0.42	20	
	00076-00003	1/8 LoE 366 -ARG- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.65	0.20	0.25	20	
	00076-00004	1/8 LoE 366 -ARG- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.65	0.20	0.25	20	
	00076-00005	1/8 LoE 366 -ARG- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.65	0.20	0.21	20	
	00076-00006	1/8 LoE 366 -ARG- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.65	0.20	0.21	20	
	00077-00001	1/8 LoE 270 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.037(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.27	0.45	20	
	00077-00002	1/8 LoE 270 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.037(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.27	0.45	20	
	00078-00001	1/8 LoE 240 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.057(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.20	0.26	20	
	00078-00002	1/8 LoE 240 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.057(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.20	0.26	20	
	00079-00001	1/8 Comfort Select 28 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.021(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.69	0.22	0.41	20	
	00079-00002	1/8 Comfort Select 28 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.021(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.69	0.22	0.41	20	
	00080-00001	1/8 Comfort Select 36 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.027(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.69	0.27	0.43	20	
	00080-00002	1/8 Comfort Select 36 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.027(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.69	0.27	0.43	20	

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	00081-00001	1/8 Clima Guard 55/27 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.031(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.69	0.22	0.36	20
	00081-00002	1/8 Clima Guard 55/27 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.031(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.69	0.22	0.36	20
	00082-00001	1/8 Clima Guard 63/31 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.033(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.69	0.24	0.41	20
	00082-00002	1/8 Clima Guard 63/31 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.033(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.69	0.24	0.41	20
	00083-00001	1/8 Comfort Select 28 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.021(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.22	0.41	20
	00083-00002	1/8 Comfort Select 28 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.021(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.22	0.41	20
	00084-00001	1/8 Comfort guard 36 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.027(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.27	0.43	20
	00084-00002	1/8 Comfort guard 36 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.027(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.27	0.43	20
	00085-00001	1/8 Clima Guard 55/27 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.031(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.21	0.36	20
	00085-00002	1/8 Clima Guard 55/27 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.031(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.21	0.36	20
	00086-00001	1/8 Clima Guard 63/31 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.033(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.23	0.41	20
	00086-00002	1/8 Clima Guard 63/31 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.033(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.23	0.41	20
	00087-00001	1/8 Clima Guard 70/36 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.036(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.69	0.25	0.41	20
	00087-00002	1/8 Clima Guard 70/36 - Air - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.036(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.69	0.25	0.41	20
	00088-00001	1/8 Clima Guard 70/36 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.036(2)	0.250	A8-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.25	0.41	20
	00088-00002	1/8 Clima Guard 70/36 - Arg - 1/8 Clear 090 PVB - 1/8 Clear	AL/AL	2	0.036(2)	0.250	P1-S	Fill 1: ARG/AIR (90/10)	N		CL	0.65	0.25	0.41	20
	00089-00001	1/8 Comfort Select 28 - Air 1/8 Clear	AL/AL	2	0.021(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.42	19

# NFRC Product Certification Authorization Report



**Manufacturer:** Lawson Industries      **Product Series:** 3000/3200 Outswing Casement      **Simulation Lab:** SFTL      **Initial Cert. Date:** 05/16/2007  
**Street:** 8501 NW 90th Street      **Product Type:** CSSV      **Sim. Report #:** 9051-2      **Re-Certification Date:** 08/29/2016  
**City/State/Zip:** Medley, FL 33166      **Air Leakage:**      **Sim. Report Date:** 08/18/2016      **Revised Date:** 12/08/2017  
**Print Date:** 08/09/2018      **VR (Standard Screen):**      **Test Date:** 07/23/2016      **Expiration Date:** 07/23/2021  
**VR (Enhanced Screen):**

CPD Number: LAW-A-3

IA: American Architectural Manufacturers Association

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00089-00002	1/8 Comfort Select 28 - Air 1/8 Clear	AL/AL	2	0.021(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.42	19
	00089-00003	3/16 Comfort Select 28 - Air 3/16 Clear	AL/AL	2	0.021(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.23	0.41	19
	00089-00004	3/16 Comfort Select 28 - Air 3/16 Clear	AL/AL	2	0.021(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.23	0.41	19
	00090-00001	1/8 Comfort Select 36 - Air 1/8 Clear	AL/AL	2	0.027(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.27	0.44	19
	00090-00002	1/8 Comfort Select 36 - Air 1/8 Clear	AL/AL	2	0.027(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.27	0.44	19
	00090-00003	3/16 Comfort Select 36 - Air 3/16 Clear	AL/AL	2	0.026(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.27	0.44	19
	00090-00004	3/16 Comfort Select 36 - Air 3/16 Clear	AL/AL	2	0.026(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.27	0.44	19
	00091-00001	1/8 Clima Guard 55/27 - Air 1/8 Clear	AL/AL	2	0.031(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.37	19
	00091-00002	1/8 Clima Guard 55/27 - Air 1/8 Clear	AL/AL	2	0.031(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.37	19
	00091-00003	3/16 Clima Guard 55/27 - Air 3/16 Clear	AL/AL	2	0.031(2)	0.250	A8-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.36	19
	00091-00004	3/16 Clima Guard 55/27 - Air 3/16 Clear	AL/AL	2	0.031(2)	0.250	P1-S	Fill 1: AIR (100)	N		CL	0.70	0.22	0.36	19
	00092-00001	1/8 LoE 366 - 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.03	0.25	0.41	15
	00092-00002	3/16 LoE 366 - 090 PVB - 3/16 Clear	AL/AL	1			N		N		CL	1.03	0.26	0.40	15
	00093-00001	1/8 LoE 340 - 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.03	0.21	0.25	15
	00093-00002	3/16 LoE 340 - 090 PVB - 3/16 Clear	AL/AL	1			N		N		CL	1.03	0.22	0.25	15
	00094-00001	1/8 LoE 340 -AIR- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.69	0.16	0.25	20
	00094-00002	1/8 LoE 340 -AIR- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.69	0.16	0.25	20
	00094-00003	1/8 LoE 340 -AIR- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.69	0.15	0.15	20
	00094-00004	1/8 LoE 340 -AIR- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.69	0.15	0.15	20
	00094-00005	1/8 LoE 340 -AIR- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.69	0.15	0.12	20
	00094-00006	1/8 LoE 340 -AIR- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.69	0.15	0.12	20

# NFRC Product Certification Authorization Report



**Manufacturer:** Lawson Industries      **Product Series:** 3000/3200 Outswing Casement      **Simulation Lab:** SFTL      **Initial Cert. Date:** 05/16/2007  
**Street:** 8501 NW 90th Street      **Product Type:** CSSV      **Sim. Report #:** 9051-2      **Re-Certification Date:** 08/29/2016  
**City/State/Zip:** Medley, FL 33166      **Air Leakage:**      **Sim. Report Date:** 08/18/2016      **Revised Date:** 12/08/2017  
**Print Date:** 08/09/2018      **VR (Standard Screen):**      **Test Date:** 07/23/2016      **Expiration Date:** 07/23/2021  
**VR (Enhanced Screen):**

CPD Number: LAW-A-3      IA: American Architectural Manufacturers Association

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyr	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00095-00001	1/8 LoE 340 -ARG- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.15	0.25	20
	00095-00002	1/8 LoE 340 -ARG- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.15	0.25	20
	00095-00003	1/8 LoE 340 -ARG- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.65	0.14	0.15	20
	00095-00004	1/8 LoE 340 -ARG- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.65	0.14	0.15	20
	00095-00005	1/8 LoE 340 -ARG- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.65	0.14	0.03	20
	00095-00006	1/8 LoE 340 -ARG- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.65	0.14	0.03	20
	00096-00001	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.69	0.22	0.40	20
	00096-00002	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.69	0.22	0.40	20
	00096-00003	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.69	0.20	0.24	20
	00096-00004	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.69	0.20	0.24	20
	00096-00005	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.69	0.20	0.20	20
	00096-00006	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.69	0.20	0.20	20
	00096-00007	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 Gre PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		GR	0.69	0.21	0.34	20
	00096-00008	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear-090 Gre PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		GR	0.69	0.21	0.34	20
	00097-00001	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.21	0.40	20
	00097-00002	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.21	0.40	20

# NFRC Product Certification Authorization Report



**Manufacturer:** Lawson Industries      **Product Series:** 3000/3200 Outswing Casement      **Simulation Lab:** SFTL      **Initial Cert. Date:** 05/16/2007  
**Street:** 8501 NW 90th Street      **Product Type:** CSSV      **Sim. Report #:** 9051-2      **Re-Certification Date:** 08/29/2016  
**City/State/Zip:** Medley, FL 33166      **Air Leakage:**      **Sim. Report Date:** 08/18/2016      **Revised Date:** 12/08/2017  
**Print Date:** 08/09/2018      **VR (Standard Screen):**      **Test Date:** 07/23/2016      **Expiration Date:** 07/23/2021  
**VR (Enhanced Screen):**

CPD Number: LAW-A-3

IA: American Architectural Manufacturers Association

Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00097-00003	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.65	0.20	0.24	20
	00097-00004	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 Bz PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.65	0.20	0.24	20
	00097-00005	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.65	0.20	0.20	20
	00097-00006	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 Gy PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.65	0.20	0.20	20
	00097-00007	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 Gre PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GR	0.65	0.21	0.34	20
	00097-00008	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear-090 Gre PVB-1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GR	0.65	0.21	0.34	20
	00098-00001	1/8 LoE 340 -AIR- 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.70	0.16	0.26	19
	00098-00002	1/8 LoE 340 -AIR- 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.70	0.16	0.26	19
	00098-00003	3/16 LoE 340 -AIR- 3/16 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.70	0.16	0.25	19
	00098-00004	3/16 LoE 340 -AIR- 3/16 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.70	0.16	0.25	19
	00099-00001	1/8 LoE 340 -ARG- 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.15	0.26	19
	00099-00002	1/8 LoE 340 -ARG- 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.15	0.26	19
	00099-00003	3/16 LoE 340 -ARG- 3/16 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.16	0.25	19
	00099-00004	3/16 LoE 340 -ARG- 3/16 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.16	0.25	19
	00100-00001	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.70	0.22	0.41	19
	00100-00002	1/8 ClimaGuard 62/27 -AIR- 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.70	0.22	0.41	19
	00100-00003	3/16 ClimaGuard 62/27 -AIR- 3/16 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.70	0.22	0.41	19
	00100-00004	3/16 ClimaGuard 62/27 -AIR- 3/16 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.70	0.22	0.41	19
	00101-00001	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.22	0.41	19
	00101-00002	1/8 ClimaGuard 62/27 -ARG- 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.22	0.41	19
	00101-00003	3/16 ClimaGuard 62/27 -ARG- 3/16 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.22	0.41	19



# NFRC Product Certification Authorization Report



**Manufacturer:** Lawson Industries      **Product Series:** 3000/3200 Outswing Casement      **Simulation Lab:** SFTL      **Initial Cert. Date:** 05/16/2007  
**Street:** 8501 NW 90th Street      **Product Type:** CSSV      **Sim. Report #:** 9051-2      **Re-Certification Date:** 08/29/2016  
**City/State/Zip:** Medley, FL 33166      **Air Leakage:**      **Sim. Report Date:** 08/18/2016      **Revised Date:** 12/08/2017  
**Print Date:** 08/09/2018      **VR (Standard Screen):**      **Test Date:** 07/23/2016      **Expiration Date:** 07/23/2021  
**VR (Enhanced Screen):**

CPD Number: LAW-A-3			IA: American Architectural Manufacturers Association												
Status	Product Num.	Manufacturer Code	Frame/Sash	Glaz Lyrs	Low-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Tint	U-Factor	SHGC	VT	Cond. Res.
	00101-00004	3/16 ClimaGuard 62/27 -ARG- 3/16 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.65	0.22	0.41	19
	00102-00001	3/16 Neutral 40 -AIR- 3/16 Clear	AL/AL	2	0.149(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.72	0.25	0.27	20
	00102-00002	3/16 Neutral 40 -AIR- 3/16 Clear	AL/AL	2	0.149(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.72	0.25	0.27	20
	00103-00001	3/16 Neutral 40 -ARG- 3/16 Clear	AL/AL	2	0.149(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.68	0.25	0.27	20
	00103-00002	3/16 Neutral 40 -ARG- 3/16 Clear	AL/AL	2	0.149(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.68	0.25	0.27	20

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**Baseline Information**

<b>Test Lab</b>	<b>Test Date</b>	<b>Test Size</b>	<b>Tested U-Value</b>	<b>Standard U-Value</b>	<b>Test Report Number</b>
<b>TFTL</b>	<b>07/23/2016</b>	600 mm x 1500 mm	0.688	0.645	9015

**Comments:**

I hereby certify that all requirements for NFRC Certification Authorization have been met and that the above information is true and correct, to the best of my knowledge.

Authorized IA  
Signature: \_\_\_\_\_