

# NFRC Product Certification Authorization Report



**Manufacturer:** Lawson Industries      **Product Series:** 8700 Horizontal Sliding Window      **Simulation Lab:** SFTL      **Initial Cert. Date:** 07/09/2007  
**Street:** 8501 NW 90th Street      **Product Type:** HSOX      **Sim. Report #:** 9034-2      **Re-Certification Date:** 08/29/2016  
**City/State/Zip:** Medley, FL 33166      **Air Leakage:**      **Sim. Report Date:** 08/18/2016      **Revised Date:** 12/05/2017  
**Print Date:** 08/03/2018      **VR (Standard Screen):**      **Test Date:** 07/22/2016      **Expiration Date:** 07/22/2021  
**VR (Enhanced Screen):**

CPD Number: LAW-A-10															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.														
	00027-00001	1/8 Clear-090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.11	0.64	0.70	14														
	00027-00002	1/8 bronze-090 PVB-1/8 Clear	AL/AL	1			N		N		BZ	1.11	0.54	0.53	14														
	00027-00003	1/8 gray-090 PVB-1/8 Clear	AL/AL	1			N		N		GY	1.11	0.50	0.48	14														
	00027-00004	1/8 Clear-090 bronze PVB-1/8 Clear	AL/AL	1			N		N		BZ	1.11	0.39	0.10	14														
	00027-00005	1/8 Clear-090 gray PVB-1/8 Clear	AL/AL	1			N		N		GY	1.11	0.39	0.10	14														
	00027-00006	1/8 Clear - 090 Green PVB - 1/8 Clear	AL/AL	1			N		N		GR	1.12	0.58	0.60	13														
	00028-00001	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	0.67	0.24	0.50	16														
	00028-00002	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	0.67	0.24	0.50	16														
	00028-00003	1/8 LoE 366 - Air - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.67	0.22	0.20	16														
	00028-00004	1/8 LoE 366 - Air - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.67	0.22	0.20	16														
	00028-00005	1/8 LoE 366 - Air - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.67	0.22	0.26	16														
	00028-00006	1/8 LoE 366 - Air - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.67	0.22	0.26	16														
	00029-00001	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	0.68	0.31	0.54	16														
	00030-00001	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	0.68	0.23	0.31	16														
	00031-00001	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	0.62	0.24	0.50	17														
	00031-00002	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	0.62	0.24	0.50	16														
	00031-00003	1/8 LoE 366 - Arg - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.62	0.22	0.20	16														
	00031-00004	1/8 LoE 366 - Arg - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.62	0.22	0.20	16														

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CPD Number: LAW-A-10

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.
	00031-00005	1/8 LoE 366 - Arg - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.62	0.22	0.26	16
	00031-00006	1/8 LoE 366 - Arg - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.62	0.22	0.26	16
	00032-00001	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	0.62	0.31	0.54	17
	00033-00001	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	0.63	0.22	0.31	16
	00034-00001	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	0.67	0.23	0.49	16
	00035-00001	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	0.67	0.31	0.51	16
	00036-00001	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	0.67	0.25	0.43	16
	00037-00001	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	0.67	0.27	0.49	16
	00038-00001	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	0.62	0.25	0.49	17
	00039-00001	1/8 Comfort Select 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	0.62	0.30	0.51	17
	00040-00001	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	0.62	0.24	0.43	17
	00041-00001	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	0.62	0.26	0.49	17
	00042-00001	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	0.68	0.29	0.49	16
	00043-00001	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	0.62	0.28	0.49	17
	00044-00001	1/8 Clear-090 PVB - 1/8 i89	AL/AL	1	0.149(2)		N		N		CL	0.83	0.56	0.68	9
	00045-00001	1/8 LoE 366 - 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.10	0.29	0.48	13
	00046-00001	1/8 LoE 340 - 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.10	0.24	0.30	13

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**VR (Enhanced Screen):**

CPD Number: LAW-A-10

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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.
	00047-00001	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	0.68	0.17	0.30	16
	00047-00002	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	0.68	0.17	0.30	16
	00047-00003	1/8 LoE 340 - Air - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.68	0.16	0.12	16
	00047-00004	1/8 LoE 340 - Air - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.68	0.16	0.12	16
	00047-00005	1/8 LoE 340 - Air - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.68	0.16	0.15	16
	00047-00006	1/8 LoE 340 - Air - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.68	0.16	0.15	16
	00048-00001	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	0.62	0.17	0.30	16
	00048-00002	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	0.62	0.17	0.30	16
	00048-00003	1/8 LoE 340 - Arg - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.62	0.16	0.12	16
	00048-00004	1/8 LoE 340 - Arg - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.62	0.16	0.12	16
	00048-00005	1/8 LoE 340 - Arg - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.62	0.16	0.15	16
	00048-00006	1/8 LoE 340 - Arg - 1/8 Clear - 090 PVB Gray - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.62	0.16	0.15	16
	00049-00001	1/8 Clima Guard 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	0.68	0.25	0.48	16
	00049-00002	1/8 Clima Guard 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	0.68	0.25	0.48	16
	00049-00003	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.68	0.22	0.19	16
	00049-00004	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.68	0.22	0.19	16

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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.
	00049-00005	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 PVB Grey - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.68	0.23	0.25	16
	00049-00006	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 PVB Grey - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.68	0.23	0.25	16
	00049-00007	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 PVB Green - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		GR	0.68	0.32	0.41	16
	00049-00008	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 PVB Green - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		GR	0.68	0.32	0.41	16
	00050-00001	1/8 Clima Guard 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	0.62	0.24	0.48	16
	00050-00002	1/8 Clima Guard 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	0.62	0.24	0.48	16
	00050-00003	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.62	0.22	0.19	16
	00050-00004	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 PVB Bronze - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.62	0.22	0.19	16
	00050-00005	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 PVB Grey - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.62	0.23	0.25	16
	00050-00006	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 PVB Grey - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.62	0.23	0.25	16
	00050-00007	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 PVB Green - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GR	0.62	0.24	0.41	16
	00050-00008	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 PVB Green - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GR	0.62	0.24	0.41	16

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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>07/22/2016</b>	1500 mm x 1200 mm	0.696	0.653	9014

**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: \_\_\_\_\_