

NFRC Product Certification Authorization Report



Manufacturer: Lawson Industries	Product Series: 7700/7800 Single Hung	Simulation Lab: SFTL	Initial Cert. Date: 06/20/2007
Street: 8501 NW 90th Street	Product Type: VSSH	Sim. Report #: 9045-2	Re-Certification Date: 08/10/2016
City/State/Zip: Medley, FL 33166	Air Leakage:	Sim. Report Date: 07/04/2016	Revised Date: 12/06/2017
Print Date: 08/03/2018	VR (Standard Screen):	Test Date: 07/12/2016	Expiration Date: 07/12/2021
	VR (Enhanced Screen):		

CPD Number: LAW-A-8

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.
	00033-00001	1/8 Clear 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.10	0.64	0.71	14
	00033-00002	1/8 BZ - 090 PVB - 1/8 Clear	AL/AL	1			N		N		BZ	1.10	0.55	0.54	14
	00033-00003	1/8 GY - 090 PVB - 1/8 Clear	AL/AL	1			N		N		GY	1.10	0.54	0.49	14
	00033-00004	1/8 Clear - 090 GY PVB - 1/8 Clear	AL/AL	1			N		N		GY	1.10	0.39	0.10	14
	00033-00005	1/8 Clear - 090 BZ PVB - 1/8 Clear	AL/AL	1			N		N		BZ	1.10	0.39	0.10	14
	00033-00006	1/8 Clear - 090 White PVB - 1/8 Clear	AL/AL	1			N		N		OT	1.10	0.40	0.25	14
	00033-00007	1/8 Clear - 090 Green PVB - 1/8 Clear	AL/AL	1			N		N		GR	1.10	0.58	0.60	14
	00034-00001	1/8 LoE366 - 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	0.66	0.25	0.51	17
	00034-00002	1/8 LoE366 - 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	0.66	0.25	0.51	17
	00034-00003	1/8 LoE366 - Air - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.66	0.23	0.30	17
	00034-00004	1/8 LoE366 - Air - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.66	0.23	0.30	17
	00034-00005	1/8 LoE366 - Air - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.66	0.22	0.26	17
	00034-00006	1/8 LoE366 - Air - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.66	0.22	0.26	17
	00035-00001	1/8 LoE270 - 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	0.66	0.32	0.55	17
	00035-00002	1/8 LoE270 - 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	0.66	0.32	0.55	17
	00036-00001	1/8 LoE240 - 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	0.66	0.23	0.31	17
	00036-00002	1/8 LoE240 - 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	0.66	0.23	0.31	17
	00037-00001	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	0.60	0.24	0.51	17
	00037-00002	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	0.60	0.24	0.51	17

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VR (Enhanced Screen):

CPD Number: LAW-A-8															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.
	00037-00003	1/8 LoE366 - Arg - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.60	0.23	0.30	17
	00037-00004	1/8 LoE366 - Arg - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.60	0.23	0.30	17
	00037-00005	1/8 LoE366 - Arg - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.60	0.22	0.26	17
	00037-00006	1/8 LoE366 - Arg - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.022(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.60	0.22	0.26	17
	00038-00001	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	0.61	0.31	0.55	17
	00038-00002	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	0.61	0.31	0.55	17
	00039-00001	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	0.61	0.23	0.31	17
	00039-00002	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	0.61	0.23	0.31	17
	00040-00001	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	0.66	0.25	0.50	17
	00040-00002	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	0.66	0.25	0.50	17
	00041-00001	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	0.66	0.31	0.52	17
	00041-00002	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	0.66	0.31	0.52	17
	00042-00001	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	0.66	0.25	0.44	17
	00042-00002	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	0.66	0.25	0.44	17
	00043-00001	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	0.66	0.27	0.49	17
	00043-00002	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	0.66	0.27	0.49	17
	00044-00001	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	0.60	0.25	0.50	17

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Air Leakage:
VR (Standard Screen):
VR (Enhanced Screen):

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CPD Number: LAW-A-8

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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.
	00044-00002	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	0.60	0.25	0.50	17
	00045-00001	1/8 Comfort Select 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	0.60	0.31	0.52	17
	00045-00002	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	0.60	0.31	0.52	17
	00046-00001	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	0.61	0.24	0.44	17
	00046-00002	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	0.61	0.24	0.44	17
	00047-00001	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	0.61	0.27	0.49	17
	00047-00002	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	0.61	0.27	0.49	17
	00048-00001	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	0.66	0.29	0.50	17
	00048-00002	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	0.66	0.29	0.50	17
	00049-00001	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	0.61	0.29	0.50	17
	00049-00002	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	0.61	0.29	0.50	17
	00050-00001	1/8 Clear-090 PVB-1/8 i89	AL/AL	1	0.149(2)		N		N		CL	0.81	0.57	0.07	9
	00051-00001	1/8 LoE366 - 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.08	0.29	0.49	14
	00052-00001	1/8 LoE340 - 090 PVB - 1/8 Clear	AL/AL	1			N		N		CL	1.08	0.25	0.30	14
	00053-00001	1/8 LoE340 - 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	0.66	0.18	0.30	17
	00053-00002	1/8 LoE340 - 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	0.66	0.18	0.30	17
	00053-00003	1/8 LoE340 - Air - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.66	0.16	0.18	17
	00053-00004	1/8 LoE340 - Air - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.66	0.16	0.18	17

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	00053-00005	1/8 LoE340 - Air - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.66	0.16	0.16	17	
	00053-00006	1/8 LoE340 - Air - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.66	0.16	0.16	17	
	00054-00001	1/8 LoE340 - 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	0.60	0.17	0.30	17	
	00054-00002	1/8 LoE340 - 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	0.60	0.17	0.30	17	
	00054-00003	1/8 LoE340 - Arg - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.60	0.16	0.18	17	
	00054-00004	1/8 LoE340 - Arg - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.60	0.16	0.18	17	
	00054-00005	1/8 LoE340 - Arg - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.60	0.16	0.16	17	
	00054-00006	1/8 LoE340 - Arg - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.028(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.60	0.16	0.16	17	
	00055-00001	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		CL	0.66	0.25	0.48	17	
	00055-00002	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		CL	0.66	0.25	0.48	17	
	00055-00003	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		BZ	0.66	0.23	0.29	17	
	00055-00004	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		BZ	0.66	0.23	0.29	17	
	00055-00005	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		GY	0.66	0.23	0.25	17	
	00055-00006	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		GY	0.66	0.23	0.25	17	
	00055-00007	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 Green PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: AIR(100)	N		GR	0.66	0.24	0.42	17	
	00055-00008	1/8 Clima Guard 62/27 - Air - 1/8 Clear - 090 Green PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: AIR(100)	N		GR	0.66	0.24	0.42	17	
	00056-00001	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.61	0.24	0.48	17	

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	00056-00002	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		CL	0.61	0.24	0.48	17
	00056-00003	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.61	0.23	0.29	17
	00056-00004	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 Bronze PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		BZ	0.61	0.23	0.29	17
	00056-00005	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GY	0.61	0.23	0.25	17
	00056-00006	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 Gray PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GY	0.61	0.23	0.25	17
	00056-00007	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 Green PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	P1-S	Fill 1: ARG/AIR(90/10)	N		GR	0.61	0.24	0.42	17
	00056-00008	1/8 Clima Guard 62/27 - Arg - 1/8 Clear - 090 Green PVB - 1/8 Clear	AL/AL	2	0.03(2)	0.250	A8-S	Fill 1: ARG/AIR(90/10)	N		GR	0.61	0.24	0.42	17

Baseline Information

Test Lab	Test Date	Test Size	Tested U-Value	Standard U-Value	Test Report Number
TFTL	07/12/2016	1200 mm x 1500 mm	0.660	0.620	9013

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: _____