

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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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. |
|--------|--------------|--|------------|-----------|-----------------|--------------|--------|-------------------------|-------|----------|------|----------|------|------|------------|
| | 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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| Status | Product Num. | Manufacturer Code | Frame/Sash | Glaz Llys | 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 |

Baseline Information

| Test Lab | Test Date | Test Size | Tested U-Value | Standard U-Value | Test Report Number |
|-----------------|-------------------|-------------------|-----------------------|-------------------------|---------------------------|
| TFTL | 07/22/2016 | 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: _____