

NFRC Product Certification Authorization Report



Manufacturer: Smartglass Inc. **Product Series:** KELLER minimal windows®4+ Sliding Glass Door **Simulation Lab:** SFTL **Initial Cert. Date:** 03/29/2016
Street: 55 S.E. 2nd Avenue **Product Type:** DDSG **Sim. Report #:** 8369 **Re-Certification Date:**
City/State/Zip: Delray Beach, FL 33444 **Air Leakage:** **Sim. Report Date:** 04/16/2015 **Revised Date:** 03/23/2016
Print Date: 03/29/2016 **Test Date:** 08/11/2015 **Expiration Date:** 08/11/2020

| CPD Number: SMG-M-3 | | | | | | | | | | | | | IA: National Accreditation And Management Institute | | | |
|---------------------|--------------|--|------------|-----------|-------------------|--------------|--------|--|-------|----------|------|----------|---|------|------------|--|
| 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. | |
| | 00001-00001 | 1/4" SNX 51/23-ARG-1/4" clear-ARG-1/4" clear | AT/AP | 3 | 0.021(2) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.28 | 0.17 | 0.37 | 61 | |
| | 00002-00001 | 1/4" SNX 62/27-ARG-1/4" clear-ARG-1/4" clear | AT/AP | 3 | 0.02(2) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.28 | 0.20 | 0.45 | 61 | |
| | 00002-00002 | 1/4" SNX62/27 gray-ARG-1/4" clear-ARG-1/4" clear | AT/AP | 3 | 0.02(2) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | GY | 0.28 | 0.16 | 0.33 | 61 | |
| | 00003-00001 | 1/4" SN 68-ARG-1/4" clear-ARG-1/4" clear | AT/AP | 3 | 0.039(2) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.28 | 0.28 | 0.49 | 61 | |
| | 00004-00001 | 1/4" SN68-ARG-1/4" clear-ARG-1/4" IS20 | AT/AP | 3 | 0.039(2),0.198(6) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.26 | 0.27 | 0.48 | 54 | |
| | 00005-00001 | 1/4" SNX62/27 gray-ARG-1/4" clear-ARG-1/4" IS20 | AT/AP | 3 | 0.02(2),0.198(6) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | GY | 0.26 | 0.15 | 0.32 | 54 | |
| | 00006-00001 | 1/4" SNX51/23-ARG-1/4" clear-ARG-1/4" IS20 | AT/AP | 3 | 0.021(2),0.198(6) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.26 | 0.16 | 0.36 | 54 | |
| | 00007-00001 | 1/4" LoE366-ARG-1/4" clear-ARG-1/4" i89 | AT/AP | 3 | 0.022(2),0.149(6) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.25 | 0.20 | 0.45 | 53 | |
| | 00008-00001 | 1/4" SB70XL-ARG-1/4" clear-ARG-1/4" clear | AT/AP | 3 | 0.018(2) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.28 | 0.21 | 0.47 | 61 | |
| | 00009-00001 | 1/4" SBR100-ARG-1/4" clear-ARG-1/4" clear | AT/AP | 3 | 0.036(2) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.28 | 0.17 | 0.30 | 61 | |
| | 00010-00001 | 1/4" SB70XL-ARG-1/4" clear-ARG-1/4" Energy Advantage | AT/AP | 3 | 0.018(2),0.157(6) | 0.687,0.687 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.25 | 0.20 | 0.43 | 54 | |

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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. |
| | 00011-00001 | 1/4" SN68-090 interlayer-1/4 clear-ARG-1/4 clear-ARG-1/4 clear-090 interlayer-1/4 clear | AT/AP | 3 | | 0.375,0.375 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.36 | 0.24 | 0.43 | 59 |
| | 00012-00001 | 1/4" SN68-090 interlayer-1/4" clear-ARG-1/4 clear-ARG-1/4 clear-090 interlayer-1/4 IS20 | AT/AP | 3 | 0.149(6) | 0.375,0.375 | TS-D | Fill 1: ARG/AIR (90/10), Fill 2: ARG/AIR (90/10) | N | | CL | 0.31 | 0.23 | 0.42 | 47 |

Baseline Information

| Test Lab | Test Date | Test Size | Tested U-Value | Standard U-Value | Test Report Number |
|-----------------|-------------------|-------------------|-----------------------|-------------------------|---------------------------|
| TFTL | 08/11/2015 | 2000 mm x 2000 mm | 0.318 | 0.307 | 8234 |

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: _____

