

SOLARGUARD REFLECTIVE INSULATION SPEC SHEET AND TEST RESULTS

| PROPERTIES | TESTED VALUE | UNIT | METRIC |
|---|------------------|--|--|
| Thickness | 0.25" | Inches | 6,35 mm |
| Weight | 3 to 46 | Lbs | 1,361 - 20,865 kg |
| Emissivity | 0.03-0.04 | Coefficient | 0,03-0,04 |
| Reflectivity | 97 | % | 97 |
| Water Vapor Transmission | 0.02 | Perms | 0,02 |
| Corrosion | Doesn't Generate | | |
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| PROPERTIES | TEST METHOD | VALUES | VALUES |
| Thermal Resistance: | | | |
| White : | ASTM C1363/ C976 | *Heat Flow Down = R 10.3 Heat Flow Up = R 7.6 Heat Flow Horizontal = R 8.7 | *Heat Flow Down = RSI 1,81 Heat Flow Up = RSI 1,33 Heat Flow Horizontal = RSI 1,53 |
| Silver RFSK: | ASTM C1363/ C976 | ***Heat Flow Down = R 11.6 Heat Flow Up = R 8.3 Heat Flow Horizontal = R 9.0 | ***Heat Flow Down = RSI 2,04 Heat Flow Up = RSI 1,46 Heat Flow Horizontal = RSI 4,58 |
| Masonry Wall (foil/foil) | | | |
| 1x2 Wood 16" oc. | ASTM C1363/ C976 | Heat Flow Horizontal = R 5.83 | Heat Flow Horizontal = RSI 1,03 |
| 1x2 Wood 24" oc. | ASTM C1363/ C976 | Heat Flow Horizontal = R 6.14 | Heat Flow Horizontal = RSI 1,08 |
| 2x2 Wood 16" oc. | ASTM C1363/ C976 | Heat Flow Horizontal = R 6.56 | Heat Flow Horizontal = RSI 1,15 |
| 7/8" Metal Hat Channel 16" oc. | ASTM C1363/ C976 | Heat Flow Horizontal = R 5.44 | Heat Flow Horizontal = RSU 0,96 |
| Residential Foil/Foil + R19 Batt Insulation: Cathedral Ceiling Application | ASTM C1363/ C976 | Heat Flow Down = R 23.82 | Heat Flow Down = RSI 4,19 |
| Residential Foil/Foil: Floor Joist & Crawl Space Application | ASTM C1363/ C976 | Heat Flow Down = R 14.80 Heat Flow Up = R 9.21 | Heat Flow Down = RSI 2,60 Heat Flow Up = RSI 1,62 |
| Residential Foil/Foil + R13 Batt Insulation: Kneewall Application | ASTM C1363/ C976 | Heat Flow Horizontal = R 9.0 | Heat Flow Horizontal = RSI 1,58 |
| Residential Foil/Foil: Attic Application | ASTM C1363/ C976 | Heat Flow Down = R 11.6 | Heat Flow Down = RSI 2,04 |
| Flame Spread: | | | |
| White: | ASTM E -84 | 25 | 25 |
| Silver RFSK | ASTM E -84 | 0 | 0 |
| Residential Foil: | ASTM E -84 | 5 | 5 |
| Smoke Developed: | | | |
| White : | ASTM E -84 | 25 | 25 |
| Silver RFSK | ASTM E -84 | 0 | 0 |
| Residential Foil: | ASTM E -84 | 15 | 15 |
| Full Scale Corner Wall | | | |
| White: | UL 1715/UBC 26-3 | PASS | PASS |
| Silver RFSK | UL 1715/UBC 26-3 | PASS | PASS |
| Residential Foil: | UL 1715/UBC 26-3 | PASS | PASS |
| (*) System R-Values per ASTM C976/C1363, Air to Air with a 30 degree Fahrenheit temperature differential. These tests were conducted using a Calibrated Hot Box apparatus at the Johns Manville Technical Center, Littleton, CO. The reflective insulation tested was .25" thick fiberglass insulation with foil facing on one side and a white scrim reinforced facing on the other side. The test sample was installed in | | | |

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| the middle of a 2 x 4 wood stud cavity, the wood framing was 16" o.c. with 3/4" thick plywood on each side. All R-Values are in hr-sq. ft.- degree F/BTU. | | |
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