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Thermal Resistance Test Report

Date of Test: June 10, 2008Date of Manufacture: 2008HFM File Number: 08-8009Specimen Number: 1021080606-7Test Number: RD082398TRDescription of Test Specimen: Innovative Energy; Bubble Pack with Metallized Film Facer (AstroShield II)Test Method: ASTM C 518-04, "Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus."Report Prepared For: Innovative Energy / Eric Baker

The results in this report were obtained with a heat-flow meter built and operated in accordance with ASTM C 518-04.

Heat flow meter:	<u>12 by 12</u>	in. x in.
Specimen thickness:	<u>0.313</u>	inches
Specimen density:	<u>2.42</u>	lb/ft ³
Cold plate temperature:	<u>55.04</u>	°F
Hot plate temperature:	<u>95.04</u>	°F
Average specimen temperature:	<u>75.04</u>	°F
Apparent thermal conductivity:	<u>0.2580</u>	Btu·in./ft ² ·hr·°F
Thermal resistivity (R-per-inch):	<u>3.876</u>	ft ² ·hr·°F/Btu.in
Thermal resistance of specimen:	<u>1.21</u>	ft ² ·hr·°F/Btu

Notes: Calibration factor used for manual calculation? NA EMF NAEdge guards or cabinet temperature satisfactory? YesExcessive moisture on cold plate? NoLength of time for test (hours)? 2.2

The precision of this test is estimated to be 2.5% (Section 10.8, ASTM C 518-04)

Ronald S. Swain
Reviewed By:

08-27-08
Date:

The results in this report apply only to the specimen tested. This test conforms to ASTM Test Method C 518-04 except for the report requirements. The report includes summary data but a full complement of data is available upon request.