



**ACOUSTICAL**  
Sound Solutions for Over 35 Years

**SURFACES INC.**  
Soundproofing | Acoustics | Noise & Vibration Control



P.O. BOX 2400  
Cookeville, Tennessee 38502-2400  
Phone 931-372-8871  
Fax 931-525-3896

### Thermal Resistance Test Report

Date of Test: February 1, 2002      Date of Manufacture: N/A  
Fox Number: 6419      Specimen Number: 1175020123-7

R&D Test Number RD021123TR

Description of test specimen: Acoustic Board 1", 6#

Report Rendered by Manufacturer for Acoustical Surfaces Inc.

Report prepared for: Manufacturer/Tod Kean

The results in this report were obtained with a heat-flow meter built and operated in accordance with ASTM C 518. The test results in a value for the apparent thermal conductivity of the test specimen, k, in units W/m.K. The thermal resistivity, R-value per inch, in U.S. customary units is the reciprocal of the product of 6.933 and k.

Heat flow meter:	<u>12 by 12</u>	inches x inches
Specimen thickness:	<u>1.000</u>	inches
Specimen density:	<u>7.06</u>	lb/ft <sup>3</sup>
Cold Plate temperature:	<u>52.56</u>	deg F
Hot plate temperature:	<u>97.56</u>	deg F
Average specimen temperature:	<u>75.06</u>	deg F
Apparent thermal conductivity:	<u>0.2756</u>	Btu.in/ft <sup>2</sup> .hr.°F
Thermal resistivity (R-per-inch):	<u>3.862</u>	ft <sup>2</sup> .hr°FBtu.in
Thermal resistance of specimen:	<u>3.63</u>	ft <sup>2</sup> .hr°FBtu

Notes: Calibration factor used for manual calculation? NA      EMF NA  
Edge guards or cabinet temperature satisfactory? Yes  
Excessive moisture on cold plate? No  
Length of time for test (hours)? 36.7

Reviewed By: Ronald S. Lewis      Date: 02-08-02

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