

**HEAT FLOW METER THERMAL TRANSMISSION
TEST REPORT**

Rendered to:

ENVIRO-BRICK, LLC

SERIES / MODEL: Quick Brick Sample

Report No.: 62573.01-116-25
Report Date: 02/03/06
Expiration Date: 02/02/10

**THERMAL PERFORMANCE
TEST REPORT**

Rendered to:

ENVIRO-BRICK, LLC
5150 Contoura Drive
Orlando, Florida 32810-1808

Report No.: 62573.01-116-25
Test Date: 02/02/06
Report Date: 02/03/06
Expiration Date: 02/02/10

Project Summary: Architectural Testing, Inc., (ATI) was contracted to conduct thermal conductance/conductivity testing. The specimens were tested in accordance with ASTM C 518-04, Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus. Test specimen description, data and results are reported herein.

Test Method: The test specimen was evaluated in accordance with the general requirements of ASTM C 518, Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus, with the exception that results are reported in English units. The test method covers the measurement of steady state thermal transmission through flat specimens using a heat flow meter apparatus. This is a comparative method of measurement and must be calibrated to a specimen traceable to a recognized national standards laboratory. The apparatus was calibrated with Standard Reference Material 1450c dated March 5, 1997 supplied by the National Institute of Standards

Specimen/Project Description:

Series/Model: Quick Brick Sample

Testing Conditions: Cold plate temperature 55°F nominal
Warm plate temperature 95°F nominal
Mean specimen temperature 75°F nominal
Vertical heat flow (Down) – Horizontal specimen
Single specimen configuration
Heat flux transducer on warm side

Testing Conditions: (continued)

Specimen test size 24" x 24", metering size 4" x 4"
Specimen overall average thickness: 8.0 Inches
Specimen average density - 133 Lbs/Ft³

Results:

Test specimen 1:

Average thermal conductance (c)	0.816 Btu/hr·ft ² ·°F
Average thermal resistance (R)	1.22 hr·ft ² ·°F/ Btu
Average thermal resistance (Rsi)	0.216 m ² ·K/W

This report will be retained by ATI for a period of four years. The above results are the exclusive property of the client so named herein and are applicable only to the sample tested. This report does not constitute an opinion or endorsement by this laboratory. This report may not be reproduced except in full without the approval of ATI. For information on precision and bias see ASTM C 518-98 Section 13.

For ARCHITECTURAL TESTING, INC.:

TESTED BY:

REVIEWED BY:

Dale C. White
Technician

Michael J. Thoman
Director - Simulations & Thermal Testing

Attachments (pages): None

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
.01R0	1/26/2006	All	Original Report Issue