# INSUL-TARP®

**Non-Radiant Test Data Sheet**

## HEAT FLOW METER THERMAL TRANSMISSION TEST REPORT

Rendered To:

INSULATION SOLUTIONS, INC.
401 Truck Haven Road
East Peoria, IL 61611

**Project Summary:** Insulation Solutions® contracted a certified independent laboratory to conduct thermal conductance/conductivity testing on Insulation Solutions® Insul-Tarp® slab configuration DRFB.5.

The specimen was tested in accordance with ASTM C 518-02, *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 518-02, 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 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 and Technology.

**Specimen/Project Description:**

Series/Model: Insul-Tarp Slab Configuration DRFB.5

Configuration: Four inch concrete slab, 1/2" insulation, 2" gravel/rock, 1" sand

**Testing Conditions:**

The specimen had 7/16" plywood bottom, with an R-Value of 0.372.
This R-Value was subtracted from total product R-Value.

Cold plate temperature: 55°F nominal
Warm plate temperature: 75°F nominal
Mean plate temperature: 65.0°F nominal
Vertical heat flow (Down): Horizontal specimen
Specimen average thickness: 8.0"
Specimen average density: 78.75 lbs/ft$^3$
Average thermal resistance (R): 7.54 hr·ft$^2$·°F/Btu
Average thermal resistance (Rsi): 1.33 m$^2$·K/W