



CERTIFIED TEST REPORT

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Span-World Distributon
301 W. Airline Hwy., Ste 100
LaPlace, LA 70068

Attn: Morris I. Meyer

Subject:

Performance test of a sample of their ceramic coating versus a sample of Dow Chemical, USA R-20 (R-5/in) Styrofoam for Temperature Resistivity/Heat Reflection.

Procedure:

Per customers request, the test was conducted in the following manner:

Two identical galvanized steel boxes constructed in the form of miniature houses-and painted black were each treated with a different insulating material. The first box, which will be known as house A, was filled with 4 inches of a material which the customer Identified to be Dow Chemical R-20 (R-5/inch) styrofoam insulation. House A was- filled with the R-20 styrofoam from its roofline down to a point approximately 1.8 inches above its bottom. The styrofoam spanned the entire horizontal cross-section of house A.

The second box, which will be referred to as house B, coated over its exterior with a white material which the customer identified to be a ceramic coating manufactured by T.C.I. House B was coated with the ceramic coating material from the apex of its roof down to a point approximately 1.8 inches above its bottom. This coating was 0.016 inches thick.

(Note: This was done to simulate the same uninsulated volume as in House A.)

Both house A and house B were placed onto a green felt-covered platform. On the platform the houses were situated under a 600-watt halogen light approximately 6 inches above the boxes. The halogen light was used to apply heat in a manner similar to the sun in a stationary position as seen in Appendix B, Figure 1.


Notary Public, Cobb County, Georgia
My Commission Expires August 29, 1996



APPLIED TECHNICAL SERVICES, INCORPORATED

1190 Atlanta Industrial Drive, Marietta, Georgia 30066 - (404) 423-1400

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Results

TABLE 1

Temp (F)

<u>Time (Min)</u>	<u>Ceramic Coating</u>	<u>Dow R-20 Styrofoam</u>
0	63.9	64.5
15	84.2	93.7
30	89.1	98.9
45	92.3	101.6
60	94.5	103.4
90	95.7	103.4
95	96.1	105.0
105	97.3	106.1
120	99.6	106.1
200	100.5	107.6
210	101.5	110.1

Note: Maximum Air Temperature Achieved Adjacent to Houses: 1707.

For this particular test, the temperatures in the house coated with the Ceramic Coating were on the average 7.8 F cooler than the temperatures in the house filled with the R-20 styrofoam.


Professional Engineer, Cobb County, Georgia
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The temperature change versus-time in the volumetric area at the bottom of each house was recorded with a K-type thermocouple. The temperature change was recorded for 210 minutes. The results of this test can be found in Table I of the Results portion and Appendix A of this report.

Note: This test was conducted per customer's instructions. No ASTM standard testing procedures were applied to this test.


Notary Public, Cobb County, Georgia
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