FLORIDA ENERGY OFFICE · ENERGY CONSERVATION ASSISTANCE PROGRAM (ECAP) · ON BEHALF OF THE U.S. DOE, FLORIDA ENERGY OFFICE AND U.S. EPA

DOE-funded field program tests Super Therm® in three climates — "Repeatable Results" on a home, twin buildings and steel containers

Dade County FL (Feb 2003, ECAP-CUL-1-99) · Denver CO (Jul 2004, ECAP-CUL-1-03) · LaPorte TX (Aug 2006, ECAP-CUL-1-03) · 24-hour instrumented surveys, 2-minute intervals, heat flux and thermography

"This is the third time we have had the pleasure to test SUPER THERM PRODUCTS, it is rare that a single product will show such **Repeatable Results in three totally different environments**, South Florida, Denver Colorado and LaPorte Texas…"

— LaPorte, Texas survey, Closing Comments, August 2006. Each survey: "In every instance the Field test results concur with the manufacturers published data... obtained using in laboratory test methods."

ECAP
Florida Energy Office
DOE-funded program
3 sites · 3 climates

−59%
Roof solar-gain load — Florida
206 → 85 BTU/ft²·hr through the roof of an occupied home

26–30%
Less energy to hold comfort — Denver
Super Therm vs standard white latex on identical buildings

46–52%
Less cooling energy — Texas
Steel container skin 47 °F cooler, inside air 22 °F cooler

Dade County, Florida · 2003
Occupied concrete-block home · coated vs standard roof section

145 → 118 °F
Roof surface, standard vs Super Therm

Roof gain	**206 → 85 BTU/ft²·hr**
Roof load	**226,600 → 93,500 BTU/hr**
Readings	**5,780 in 24 h**
Payback	**≈ 2.2 years**

"…reduced total Roof Solar Gain Loads by 20 to 30%. This would qualify as an effective Energy Conservation Measure (ECM) fundable with Federal and State of Florida Energy Grant Dollars where applicable."

Room temperatures taken with no heating or cooling running. Coating over the existing roof; attic insulation untouched. High 85.5 °F, humidity 88%.

Denver, Colorado · 2004
Two identical buildings · white latex vs Super Therm, roof and all walls

1,037 → 766
BTU/ft² to maintain the same comfort level

Roof load	**235 → 93 BTU/ft²·hr**
Wall load	**355 → 202 BTU/ft²·hr**
Readings	**7,250 in 24 h**
High temp	**110 °F**

"…building envelope related energy loads were reduced approximately 26 to 30%…" "In every instance the building coated with the SuperTherm product enhanced the performance of standard insulation products."

White-vs-white: the only difference between the buildings was the coating. "Equally effective on both roof and side wall applications."

LaPorte, Texas · 2006
Two identical carbon-steel containers · bare vs Super Therm

606 → 295
BTU/ft²·hr inside-surface conduction load

Skin	**47 °F cooler**
Inside air	**22 °F cooler**
Cooling lost	**7.78 → 3.39 tons**
Moisture	**28.5% dryer**

"…thermal conductance to outside environment 50% less… external surface temperature 47 degrees cooler… outside surface reflectivity 50% higher… ultraviolet absorption rate 92% less."

The on-steel proof. Door-seal infiltration verified equal (0 CFM, 0 Pa). 4,320 readings in 24 h; high 97 °F.

In the program's words. "On behalf of the United States Department of Energy, The State of Florida Energy Office and the United States Environmental Protection Agency, let me thank you for your efforts in developing an affordable product that obviously can be instrumental in Conserving Energy."

— Dade County survey, Closing Comments, Alexander E. Othmer, Mgr., Florida Energy Office / ECAP.

WHO AND HOW

Program: Florida Energy Office ECAP, University of South Florida / SBDC; surveys on behalf of DOE, the Florida Energy Office and EPA.
Method: ECAP-CUL-1-99 / -03, Method for Comparing Utility Loads: 24-hour runs, 2-minute readings, energy-flow analysis, heat flux, thermography.
Analyst: Alexander E. Othmer, CEA/CBA/NDE III, Florida Energy Office ECAP.

Source: ECAP survey reports — Dade County FL (10–11 Feb 2003), Denver CO (19–20 Jul 2004), LaPorte TX (23–24 Aug 2006). Quotations verbatim. Reports are issued as educational guides, not product endorsements. Full reports on request.

Special Front Porch FLORIDA Project

ENERGY CONSERVATION ASSISTANCE PROGRAM

ECAP

REPORT

Prepared by
Alexander E. Othmer CEA



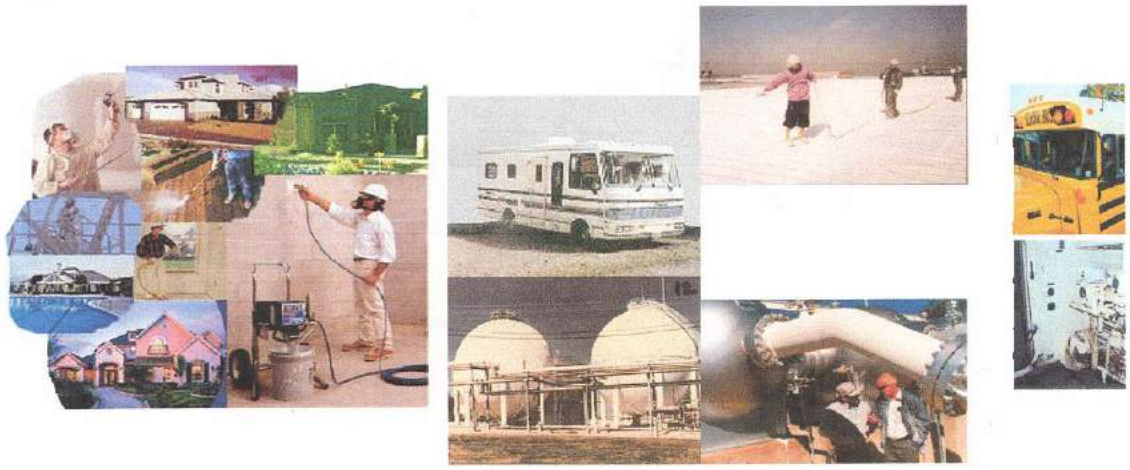
Saving Energy Saves Everything

Funded by your FLORIDA ENERGY OFFICE

Preserving the Past
Rebuild America
Protecting the Present
Preparing for the Future
OPERATION: OPEN FOR BUSINESS!
The State of Florida Department of Community Affairs / Energy Office
University of South Florida
USF
ENERGY CONSERVATION ASSISTANCE PROGRAM
A cost free service of the USF Small Business Develpoment Center
4202 East Fowler Avenue, Tampa, Florida USA 33620
Phone (813) 974-4378 / Fax (813) 974-5020
E-mail aothmer@coba.usf.edu

FIELD TEST RESULTS

SUPERTHERM



On February 10th & 11 th, 2003 a survey was conducted on the above product, applied to a residential home roofing system located in Dade County, Florida in accordance with the **S**tate of **F**lorida **E**nergy **O**ffice / **ENERGY CONSERVATION ASSISTANCE PROGRAMS Designation: ECAP-CUL-1-99**
Test Method for Comparing Utility Loads in Standard Constructed Buildings.

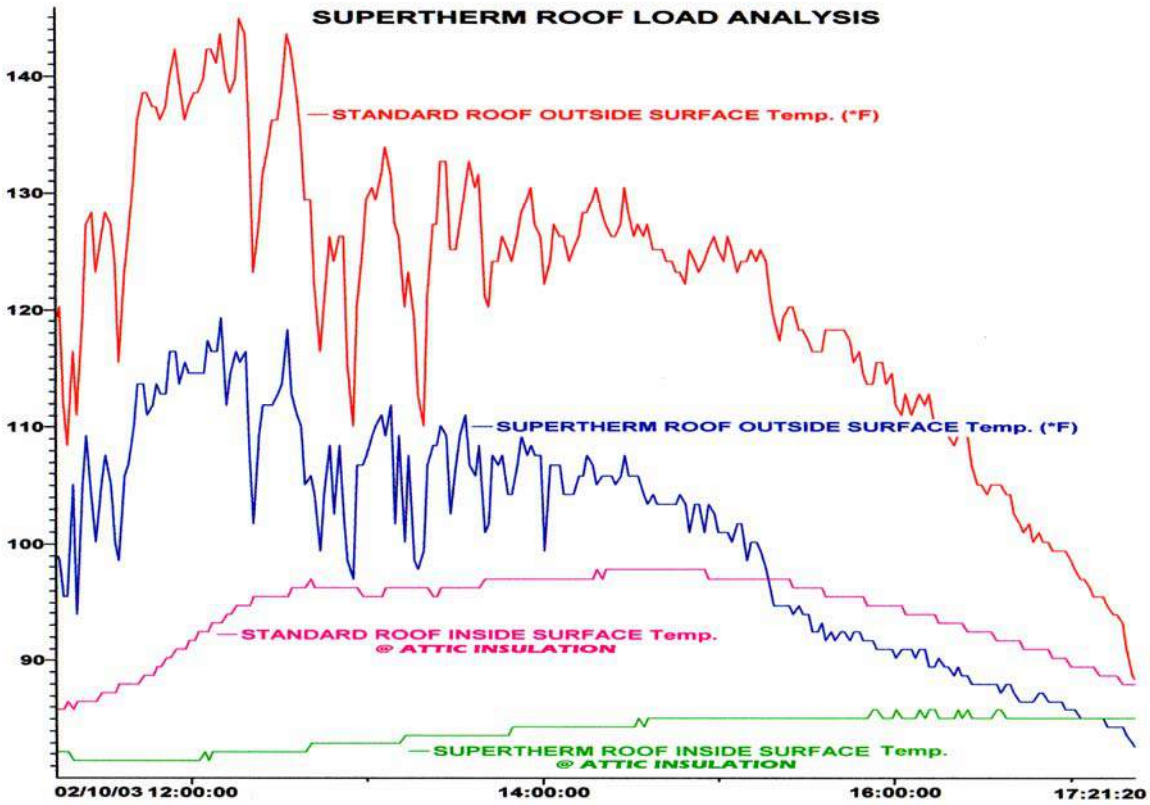
The objective of this procedure is to determine the ***actual impact on a facility, after the implementation of a Energy Conservation Retrofit*** and verify the reduced utility loads, if any, in occupied residential, commercial and government buildings. The focus of this procedure is to provide ***a comparison*** to known standards for all parties interested in using ***energy related products*** to ***displaced conventional utility loads***. This procedure addresses the energy consumption properties of the equipment and structural envelope tested and has no relationship to structural, electrical or fire code requirements.

- Our survey indicated that your application of ***SuperTherm*** reduced total Roof Solar Gain Loads by **20 to 30%.** This would qualify as an effective ***E***nergy ***C***onservation ***M***easure (***ECM***) fundable with Federal and State of Florida Energy Grant Dollars where applicable.

Survey Results

As can be seen in the Photo, Thermogram and chart below, significant load reductions were taking place ***on and under the section*** of roofing treated with the ***SuperTherm*** coatings.

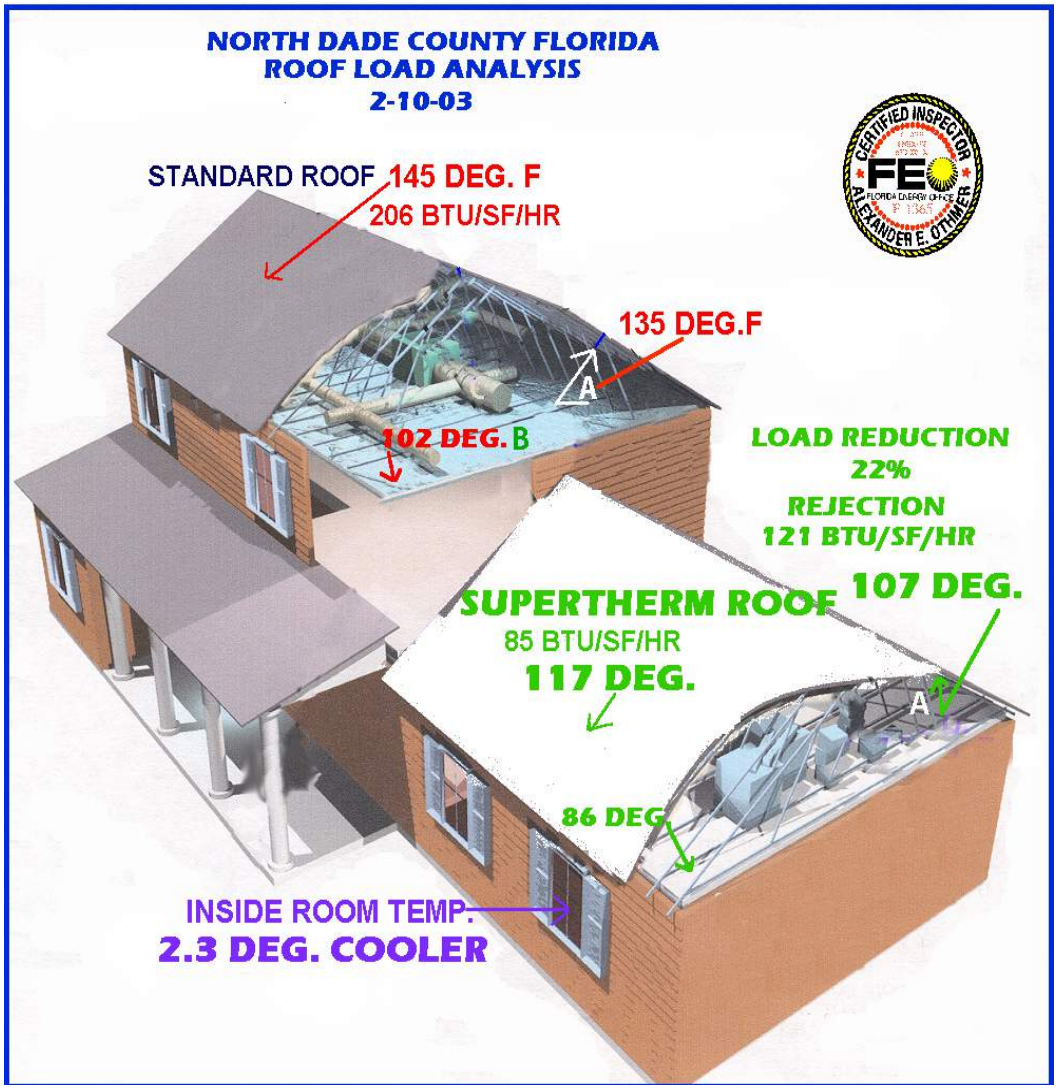




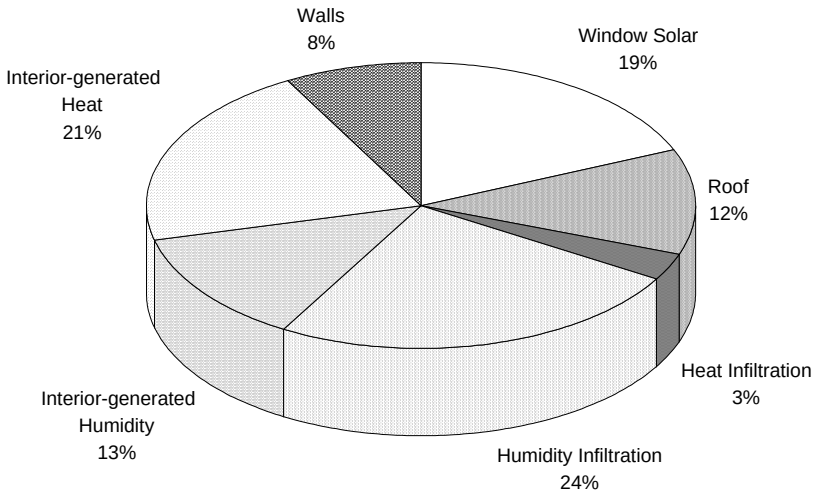
As aforementioned, the ***THERMAL LOAD REDUCTIONS in conduction, convection, and absorption were not restricted to the treated roofs outside surface.*** Over 5,780 data points were taken over a 24 hour period on a standard constructed concrete block home. Recordings were taken at;

- Outside roof surfaces.
- Inside roof surfaces.
- Inside attic insulation surfaces.
- And inside living area room temperatures.

The drawing below shows a synopsis of the data collected. Of particular interest was the effect on ***living area room temperatures*** during a period when we ***were not running either the heating or air conditioning system.***



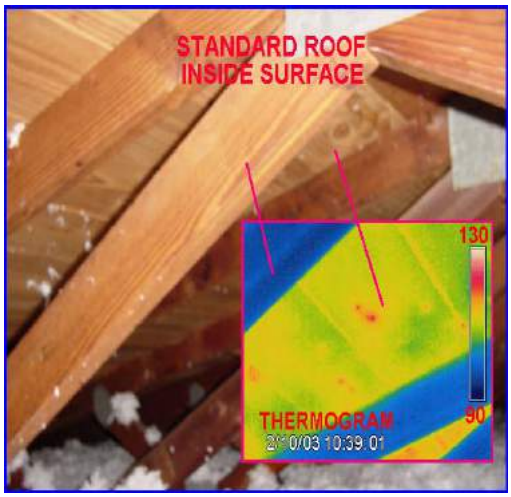
Predicated on historically accepted Florida Air Conditioning building component load data (chart below) and the square footage of the project surveyed, the estimated air conditioning load savings from the SuperTherm retrofit was approximately 11.09 tons of load per 24 hour period.



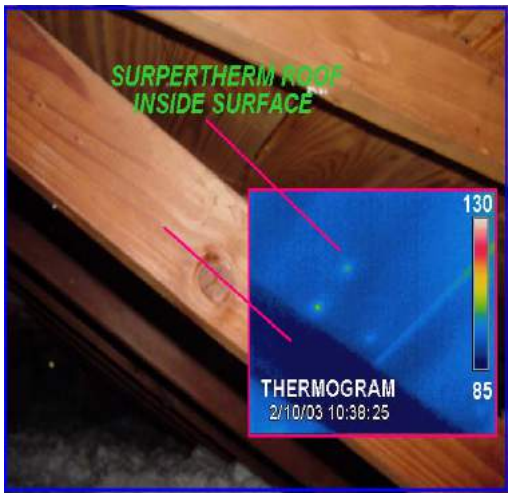
PERCENT OF COOLING DOLLARS WASTED

The ***THERMOGRAM (heat image)*** show some of the **LOADS** encountered during this survey.

INSIDE ROOF LOADS



WITHOUT SUPERTHERM



WITH SUPERTHERM

Average Weather conditions during the test period were as follows:

High Temperature	85.5 Deg. F.
Low Temperature	58.8 Deg. F
Average Wind Speed	4 to 8 MPH
Average ***UV*** intensity	99 A+B
Outside Humidity	88 %

Mostly sunny conditions with light cloud activity (See chart below)

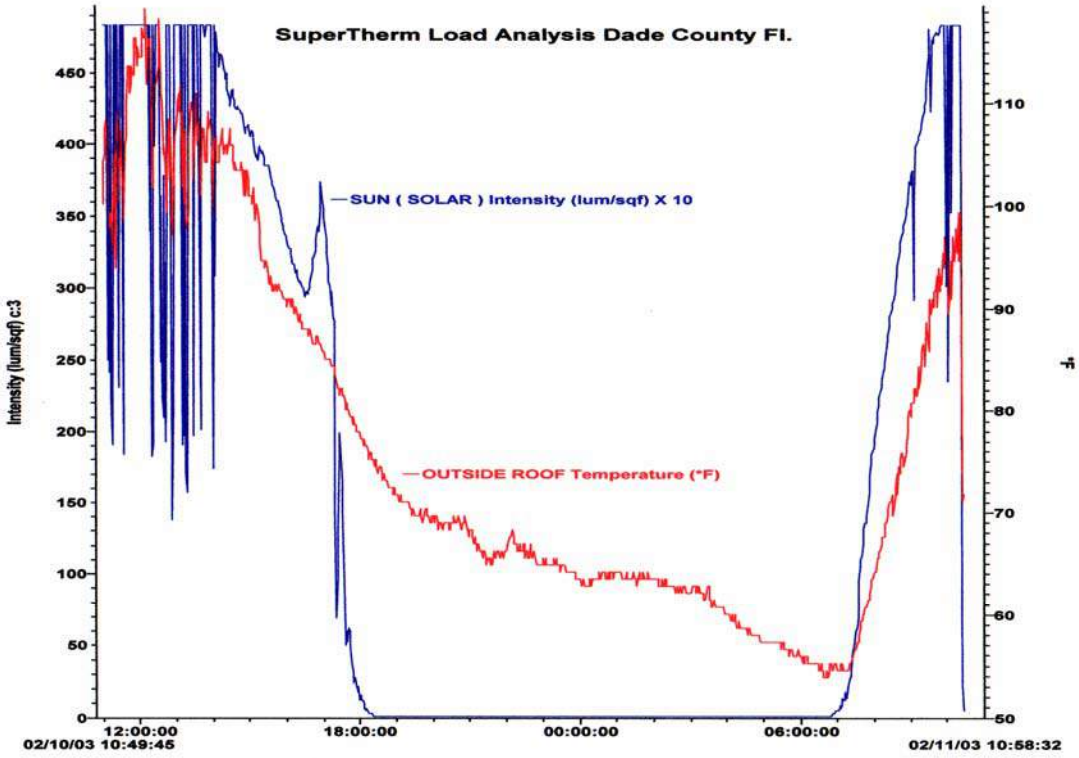
SYSTEMS TESTED *Table # 1*

The load producing components tested are as follows;

TYPE OF SYSTEM	BTU PER SQUARE FOOT PER HOUR SOLAR GAIN	INSIDE SURFACE TEMPERATURE RECORDED	APPROXIMATE R-VALUE	APPROXIMATE U-VALUE	TOTAL BTU / THERMAL LOAD & UV ABSORBTON
STANDARD ROOF	**206**	**145 Max.**	**22.0**	**0.045**	**206 / 145 98.0**
SuperTherm **ROOF**	**85**	**118 Max.**	**19.0 Reflectance Equivalent**	**0.270**	**85 / 118 03.0**

SYSTEM LOADS AS TESTED

TOTAL ROOF LOAD WITH NO RETROFIT	**226,600 BTU'S \ HOUR.**
RETROFITTED ROOF LOAD	**93,500 BTU'S \ HOUR.**
SAVINGS FROM RETROFIT	**133,100 BTU'S \ PER HOUR.**
REDUCED ENVIROMENTAL IMPACT	**66 POUNDS OF POWER PLANT EMMISIONS / HR.**



Closing Comments

As installed, at the time of this survey, the ***SuperTherm Roof Coating System*** proved to be an effective ***E***nergy ***C***onservation ***M***easure (***ECM)*** that produced a reasonable simple pay back of approximately 2.2 years on this particular project. This would indicate that it's application could be fundable with Federal and / or State of Florida Energy Grant Dollars where applicable.

On behalf of the United States Department of Energy, The State of Florida Energy Office and the United States Environmental Protection Agency, let me thank you for your efforts in developing an affordable product that obviously can be instrumental in Conserving Energy. We hope you will continue to consider ***Florida as a valuable market for your products*** .

Front Porch
FLORIDA

We would also like to thank Mr. J.R. Howell of Construction Services Group and South Beach Solar Solutions for their generosity and display of Corporate responsibility for donating this Roofing Retrofit to a Front Porch Florida, Low Income Family, giving us the opportunity to use their home as a field test site. **Superior Products International II, Inc. is the manufacturer of SUPER THERM and the entire line of insulation, high temperature, fire protection and corrosion control coatings**. The data collected is a valuable asset to our program in building a comprehensive profiling of ***actual energy related loads*** that occur in ***occupied / operational buildings***. This type of data is critical to other Engineers and Home Owners facing similar decision making tasks, where published measurement and verification data is not yet available **or inaccurate**.

This report is meant to be an educational guide to familiarize you ***with the performance profiles of your chosen E***nergy ***C***onservation ***M***easure, it ***should not be construed as an endorsement of any product or service by name or specific design.*** Please feel free to contact our offices if we can be of any assistance in helping you meet your future conservation goals.

Alexander E. Othmer ***CEA/CBA/NDEIII***

Mgr. Florida Department of Community Affairs Energy Office / E C A P
University Of South Florida / Small Business Development Center


CERTIFIED INSPECTOR
STATE
ENERGY
AUDITOR
FE
FLORIDA ENERGY OFFICE
E-1365
ALEXANDER E. OTHMER

Rebuild America

ENERGY CONSERVATION ASSISTANCE PROGRAM

ECAP

REPORT

Prepared by
Alexander E. Othmer CEA












Saving Energy Saves Everything

Funded by your

ASK ABOUT ENERGY STAR

FLORIDA ENERGY OFFICE

FLORIDA

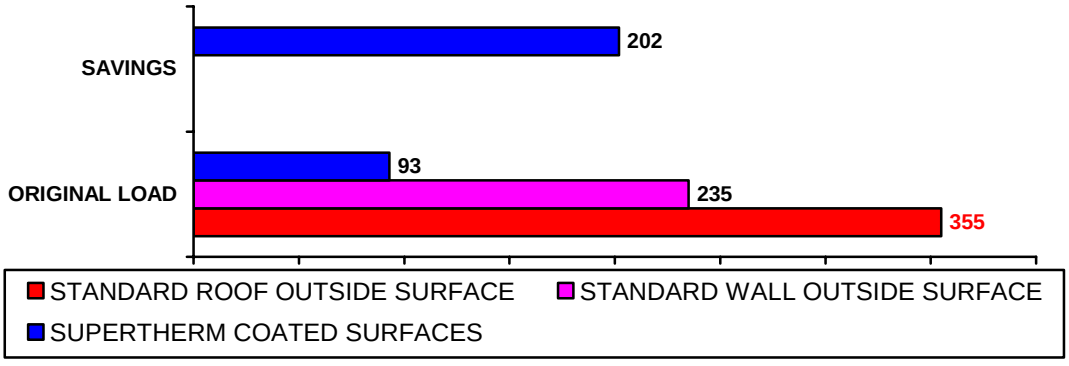
STATE OF FLORIDA ENERGY OFFICE
USF UNIVERSITY OF SOUTH FLORIDA ENERGY CONSERVATION ASSISTANCE PROGRAM
SMALL BUSINESS DEVELOPMENT CENTER
A cost free service provided by your
4202 East Fowler Avenue, BSN3403
Tampa, Florida 33620 U.S.A.
Phone (813) 974-4378 / Fax (813) 974-5020
E-mail aothmer@coba.usf.edu
Web: http://sbdc.usf.edu

Superior Products Mountain States Inc.
Denver, Colorado

On July 19th & 20th 2004 at the request of Mr. Tom Higgins, a Measurement and Verification Analysis was conducted at the above facility in accordance with the **S**tate of **F**lorida **E**nergy **O**ffice / **ENERGY CONSERVATION ASSISTANCE PROGRAMS Designation: ECAP-CUL-1-03 Method for Comparing Utility Loads in Standard Constructed Buildings.** The objective of this analysis is to determine the impact of the ***"As Built Conditions and As Installed Components / Equipment"*** on the utility loads in occupied residential, commercial and government buildings. The focus of this procedure is to provide ***a comparison*** to known standards for all parties interested in using ***alternative energy devices*** to ***displaced conventional utility loads***. This report reflects the performance characteristics of the ***SuperTherm Coatings*****,** as applied to the test facilities external surfaces, as a possible passive ***E***nergy ***C***onservation ***M***easure ***(ECM)*** to reduce internal Energy Loads and reduce the Heat Island Effects caused by roofing systems in urban areas.

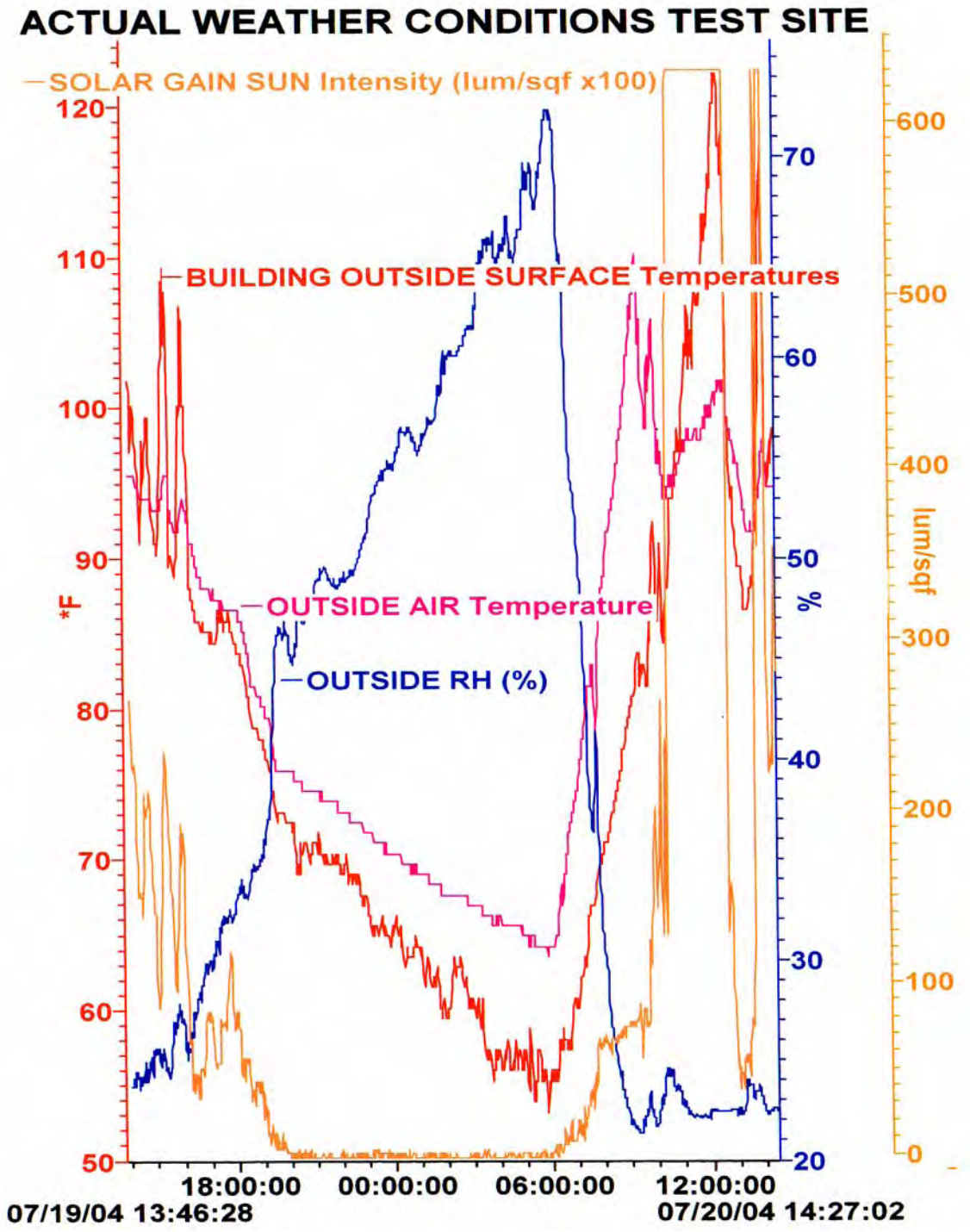
- Our survey indicated that the test specimen's building envelope related energy loads were reduced approximately **26 to 30%** by the use of this particular ***E***nergy ***C***onservation ***M***easure (***ECM ***). This was accomplished with no negative effect on the existing buildings Architectural Aesthetics.*** The chart below shows a synopsis of our findings**.**

AVERAGE THERMAL LOADS OF OUTSIDE BUILDING ENVELOPE SURFACES / BTU PER SQUARE FOOT PER HOUR



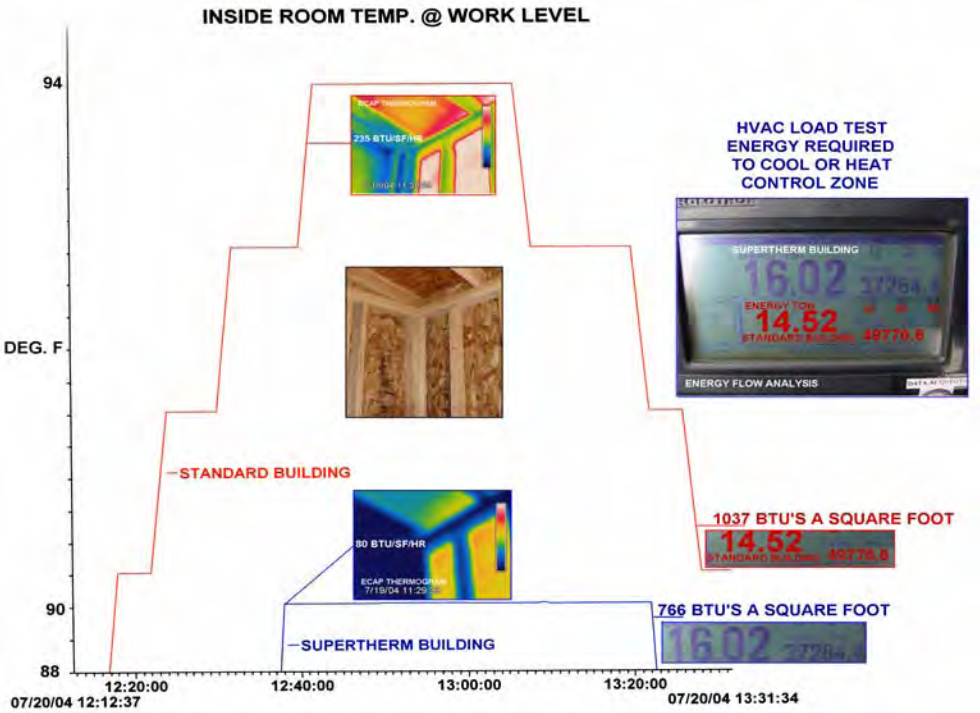
Average SITE Weather conditions during the analysis period were as follows:

High Temperature	110 Deg. F.
Low Temperature	65 Deg. F
Average Wind Speed	5.5 MPH
Average ***UV*** intensity	99 A+B
Average Outside Humidity	49.5%

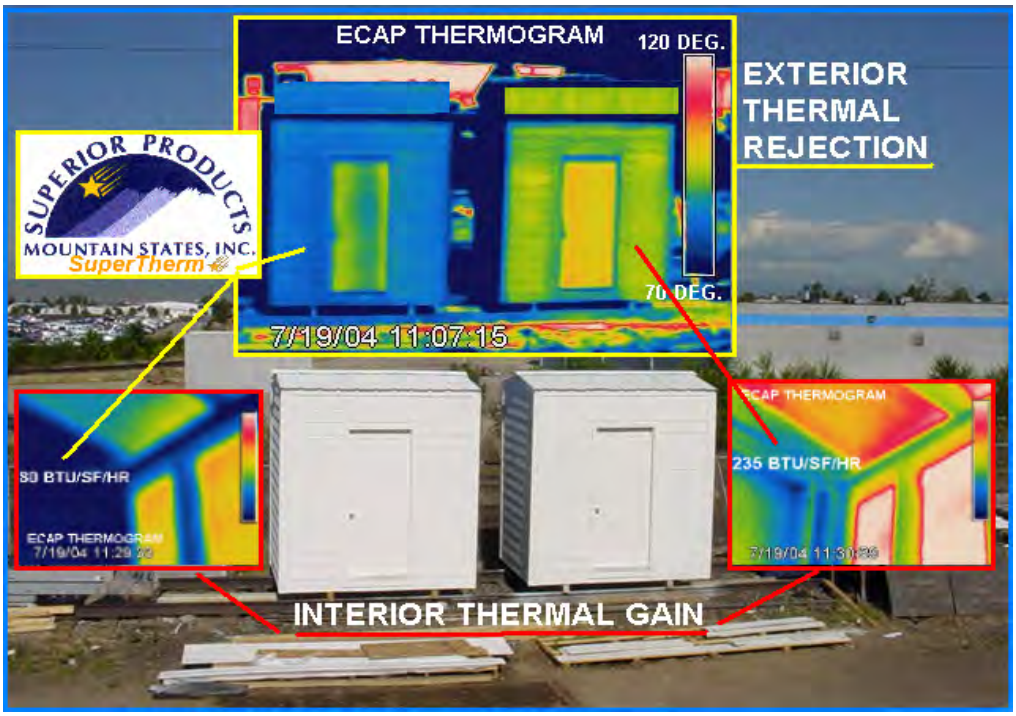


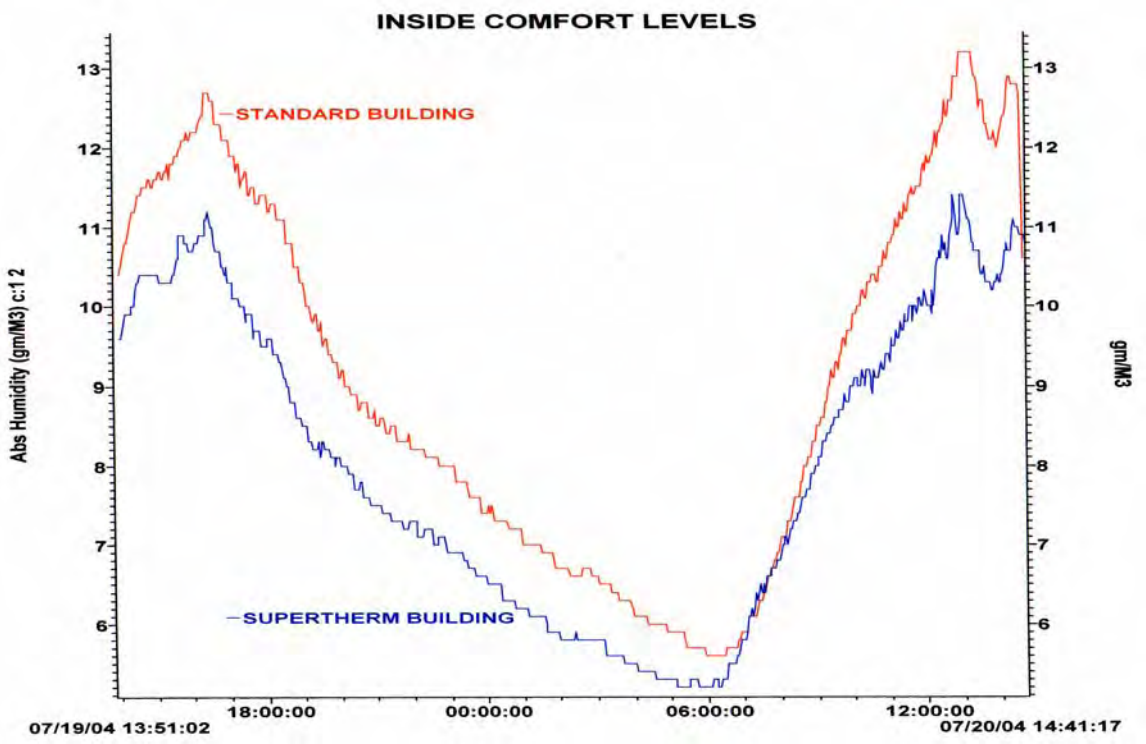
SYSTEMS TESTED

All load producing construction materials on both buildings were analyzed. 7,250 data points were recorded at 2 minute intervals for a 24 hour period with a synopsis of the findings as follows:

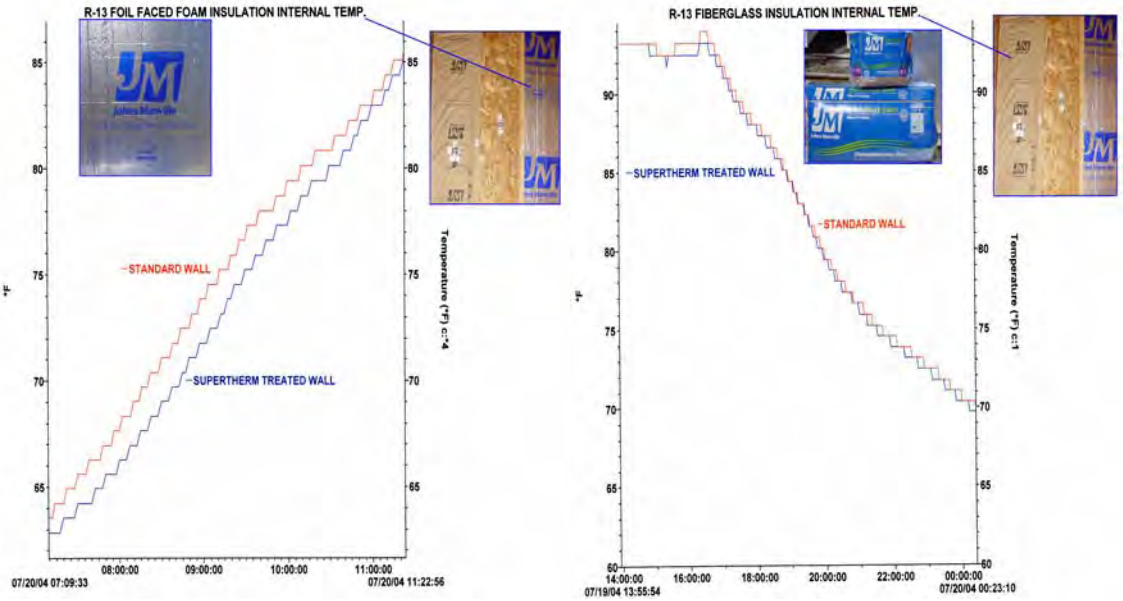


THE THERMAL ENERGY NECESSARY TO HEAT OR COOL THE BUILDING COATED WITH THE ***SUPERTHERM*** PRODUCT REQUIRED ***26% LESS ENERGY***.

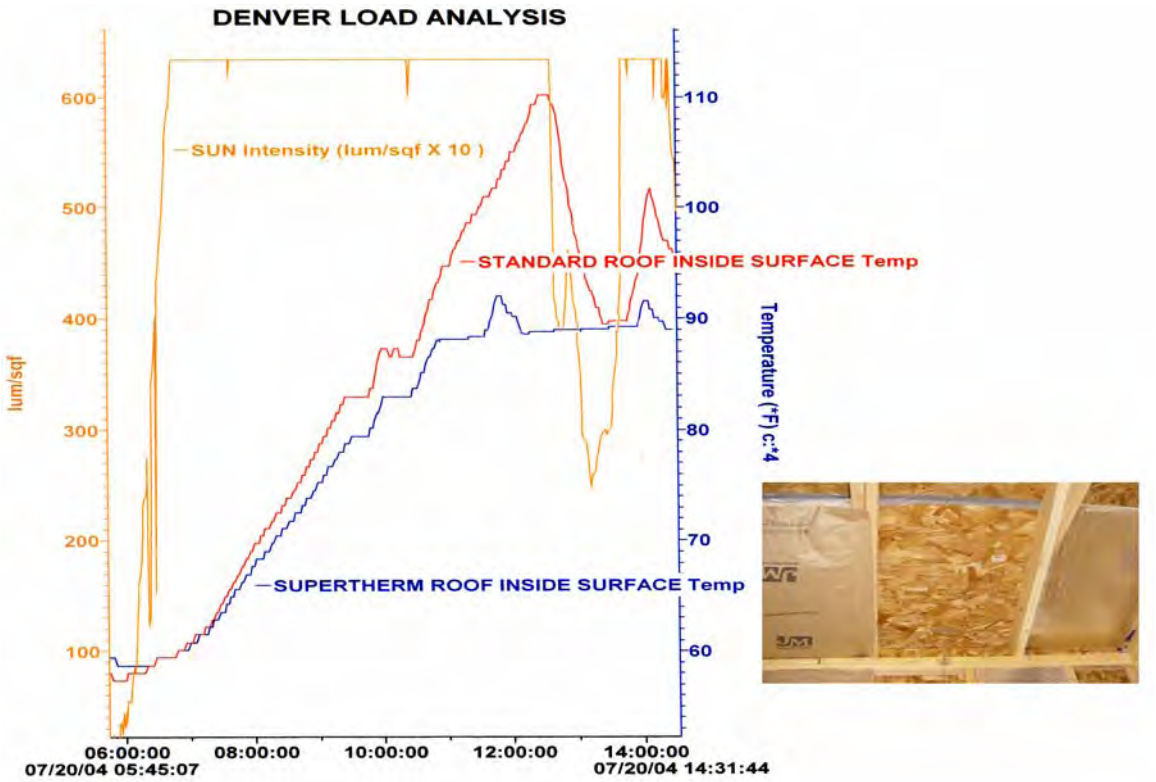




THE PERCENT OF MOISTURE INFILTRATION IN THE BUILDING COATED WITH THE ***SUPERTHERM*** PRODUCT WOULD REQUIRE ***LESS ENERGY*** TO MAINTAIN COMFORT LEVELS.



IN EVERY INSTANCE THE BUILDING COATED WITH THE ***SUPERTHERM*** PRODUCT ***ENHANCED THE PERFORMANCE*** OF STANDARD INSULATION PRODUCTS.



THESE PERFORMANCE ENHANCEMENT PROPERTIES WERE FOUND TO BE EQUALLY EFFECTIVE ON BOTH ROOF AND SIDE WALL APPLICATIONS.

Field Test Results

The location of the test specimens was adequate. Both buildings were of standard construction consisting of wood framing, standard OSB wall and roof sheeting's with a standard galvanized metal roof covering and James Hardey Board external wall coverings. The calculated R-Value of the uncoated existing materials was found to be approximately an R-2.45. The only difference between the two buildings consisting of approximately 48 square feet of control zone area was the external protective coatings.

One of the buildings was coated with a standard white latex paint while the other buildings roof and all external surfaces, including the front door had been coated with a white ***SUPERTHERM*** product. As noted and some of the test results on the prior pages of this report the differences created by the ***SUPERTHERM product*** concerning load reductions produced by thermal conduction, convection and absorption were significant. Additionally, significant reductions in moisture infiltration were also noted.

In every instance the Field test results concur with the manufacturers published data on the products anticipated performance curves obtained using in laboratory test methods.

Our Energy Flow analysis using a simulated water flow rate of approximately 6.5 gallons per minute indicated that the standard constructed building would require **a minimum of 1,037 BTU's of heating or cooling energy per square foot to maintain a minimal comfort level.**

In retrospect, the building coated with the ***SUPERTHERM product*** **reduce these loads to 766 BTU's of heating or cooling energy per square foot to maintain the same minimal comfort level.** This relates to a **26 to 30%** overall increase in energy efficiency depending on the percentage of direct solar gain.

The aforementioned Humidity infiltration reduction factors took place regardless of the amount of direct solar gain.

CLOSING COMMENTS

On behalf of the United States Department of Energy, The State of Florida Energy Office and the United States Environmental Protection Agency, let me thank you for your efforts to conserve Energy. We hope you will continue to promote ***ENERGY STAR BUILDINGS ALLY & REBUILD AMERICA BUSINESS PARTNER products*** to assist your clients reducing energy consumption and their related negative environmental impacts.

While on that subject, our office feels that particularly when addressing external building thermal loads, your product could significantly reduce the **Heat Island Effects** taking place in most urban areas. The photo and Thermogram below clearly show the benefits provided by your product in this arena.



This report is meant to be an educational guide to familiarize you ***with the historical performance curves of your chosen*** ***E***nergy ***C***onservation ***M***easures based on your supplied data and our field test results, it ***should not be construed as an endorsement of any product or service by name or specific design.***

Once again let me ***thank you*** for giving us the opportunity to use your facilities as a field test site. The data collected is a valuable asset to our program in building a comprehensive profiling of ***actual energy related loads*** that occur in ***occupied / operational buildings***. This type of data is critical to other Engineers facing decision making tasks, where published measurement and verification data is not yet available **or inaccurate**.

This is the second time we have had the pleasure to test your product, it is rare that a single product will show such Repeatable Results in two totally different environments, South Florida and Denver Colorado, a true testimonial to your products ***ENERGY STAR*** rating.

Please feel free to contact our offices if we can be of any assistance in helping you meet your future conservation / mitigation goals.

CEA/CBA/MCEIII

Dir. Florida Energy Office's / E C A P Program
University Of South Florida / Small Business Development Center


FLORIDA ENERGY CONSERVATION ASSISTANCE PROGRAM
ENERGY MEASUREMENT SERVICES DIVISION
EMS
FEMP
Rebuild America
SPECIAL REPORT
SUPERIOR PRODUCTS
INTERNATIONAL SOUTHWEST
Bill Dwyer
713-960-0400
John Grey
843-813-6402
50 Briar Hollow Lane • Suite 490E
Houston, TX 77027
Office 713-960-0400 • Fax 713-960-8649 •
bdwyer@dwyerco.com
Intermodal Facility & Maintenance, Inc.
TYPICAL STANDARD UNITS AS TESTED
TYPICAL SUPERTHERM UNITS AS TESTED
152 DEG./F
152 DEG./F
105 DEG./F
PREPAIRED BY
CERTIFIED INSPECTOR
FEO
ALEXANDER E. OTTMER
THE MOST ABUNDANT SOURCE
OF NEW ENERGY RESOURCES
WE HAVE IS THE ENERGY
WE CAN CONSERVE

Florida Energy Conservation Assistance Program

Florida ECAP

ENERGY MEASUREMENT Services

Tampa Office (813) 545-5806

www.FLORIDAECAP.ORG

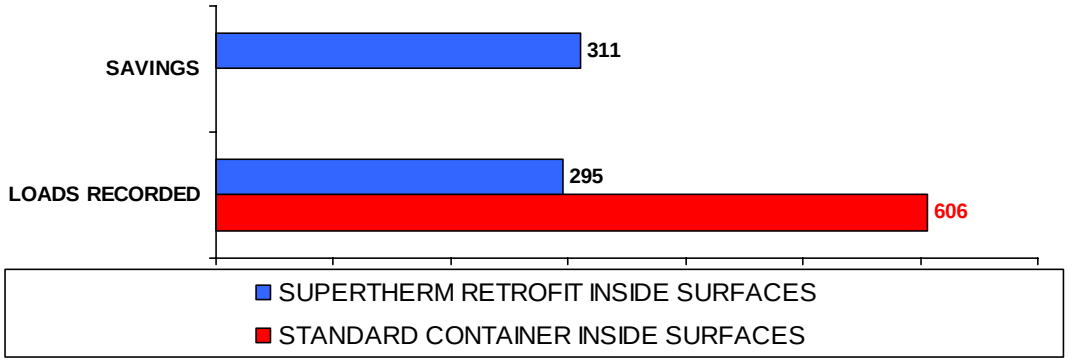
SUPERIOR PRODUCTS INTERNATIONAL SOUTHWEST

SUPER THERM FIELD TEST RESULTS RETROFITTED SHIPPING CONTAINERS AUGUST 2006

On August 23rd & 24th 2006 at the request of Mr. Bill Dwyer, in a cooperative effort instituted by Mr. Gordon Ginzel Intermodal Facility & Maintenance, Inc. a Measurement and Verification Analysis was conducted at the above facility in accordance with the **F**lorida **ENERGY CONSERVATION ASSISTANCE PROGRAMS Designation: ECAP-CUL-1-03 Method for Comparing Utility Loads in Structures and Buildings.** The objective of this analysis is to determine the impact of the ***"As Built Conditions and As Installed Components / Equipment"*** on the energy producing loads on occupied residential, commercial, government building and other structures. The focus of this procedure is to provide ***a comparison*** to known standards for all parties interested in using ***alternative and conventional conservation products and devices*** to ***displaced energy loads***. This report reflects the performance characteristics of the ***SUPER THERM COATING,*** as applied to the structures external surfaces, as a possible passive ***E***nergy ***C***onservation ***M***easure ***(ECM)*** to reduce internal Energy Loads and reduce the Heat Island Effects caused by exposed surfaces in urban areas.

- Our data indicated that at the time of this survey the test specimen container inside surface ***conduction related energy loads*** were reduced approximately ***46 to 52%*** by applying ***SUPER THERM*** as an ***E***nergy ***C***onservation ***M***easure (***ECM)*** to outside surfaces. The chart below shows a synopsis of our findings;

AVERAGE THERMAL LOADS OF INSIDE CONTAINER ENVELOPE SURFACES /
BTU PER SQUARE FOOT PER HOUR



EXECUTIVE SUMMARY

In all over 4,320 data points that were collected simultaneously over a 24 hour test period were analyzed.

TYPICAL STANDARD CONTAINER AS TESTED



The container retrofitted with the ***SUPER THERM PRODUCT*** demonstrated reduced loads normally associated with Energy Consumption and Coating Maintenance as follows;

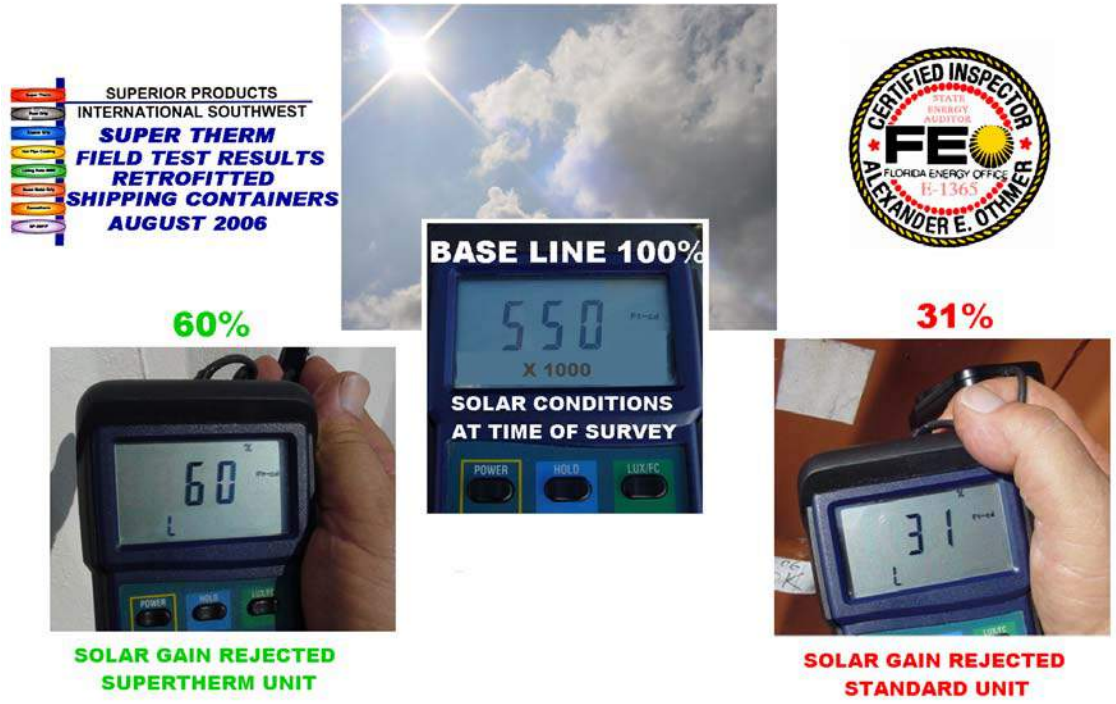
TYPICAL RETROFITTED *SUPER THERM* CONTAINER



- INSIDE CONTAINER AMBIENT TEMPERATURE ***22 DEGREES COOLER***
- THERMAL CONDUCTANCE TO OUTSIDE ENVIRONMENT ***50% LESS***
- EXTERNAL SURFACE TEMPERATURE ***47 DEGREES COOLER***
- INTERNAL SURFACE TEMPERATURES ***37 DEGREES COOLER***
- OUTSIDE SURFACE REFLECTIVITY ***50% HIGHER***
- ULTRAVIOLET ABSORPTION RATE ***92% LESS***
- INTERNAL MOISTURE LEVELS ***28.5% DRYER***

Average SITE Weather conditions during the analysis period were as follows:

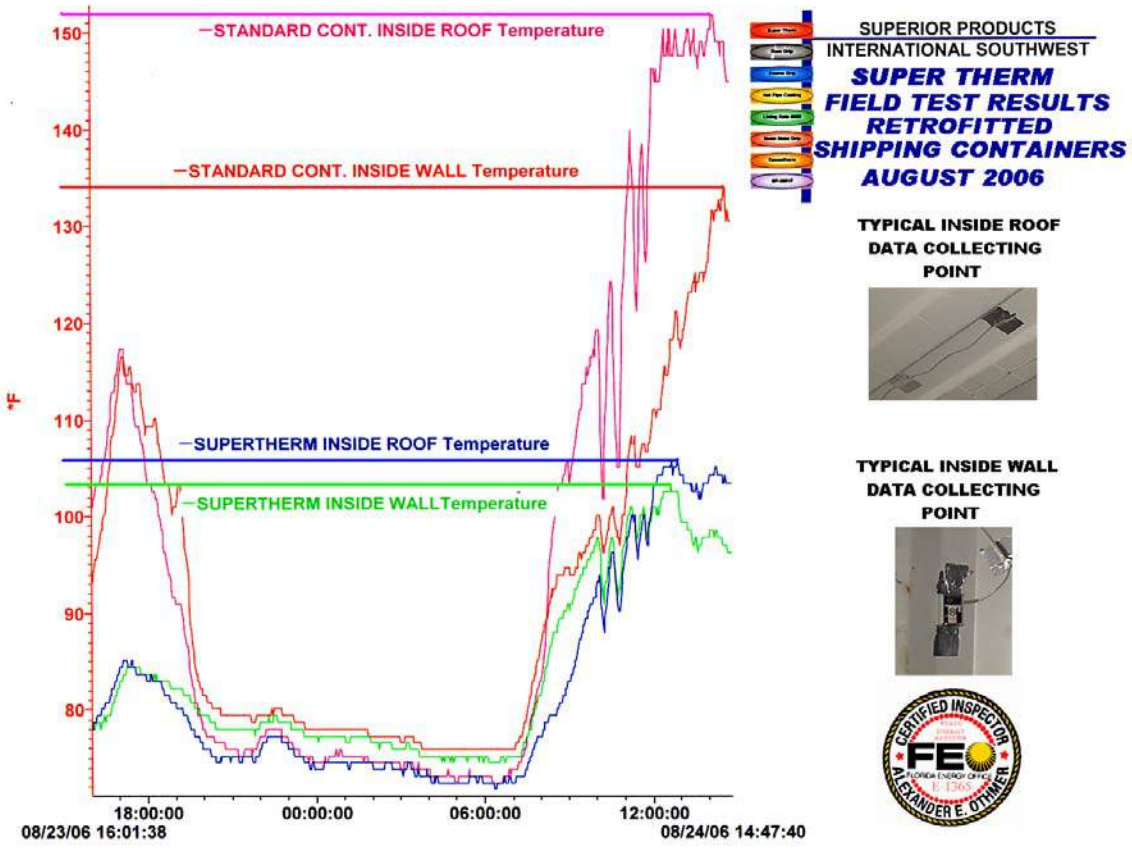
High Temperature	97 Deg. F.
Low Temperature	74 Deg. F
Average Wind Speed	3 to 5.5 MPH
Average ***UV*** intensity	99 A+B

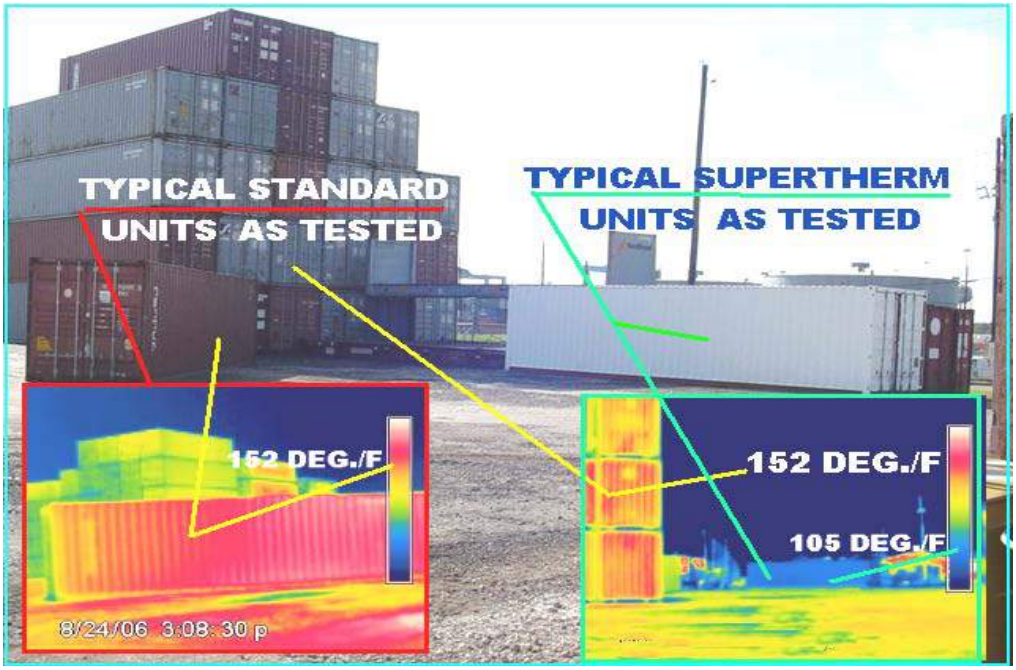


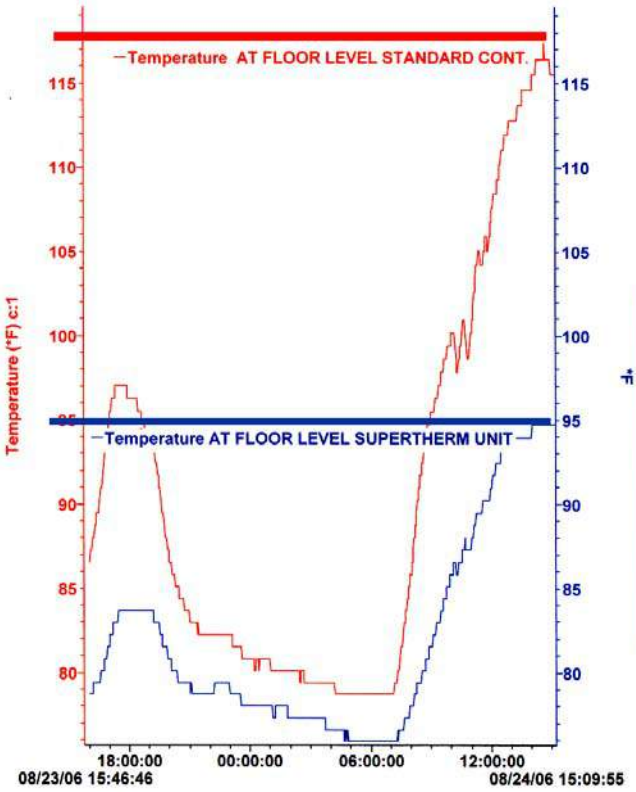


SYSTEMS TESTED

All load conducting surfaces on both containers were analyzed. 4,320 data points were recorded at 2 minute intervals for a 24 hour period with a synopsis of the findings as follows:



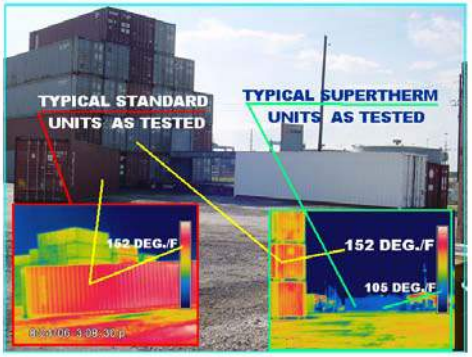


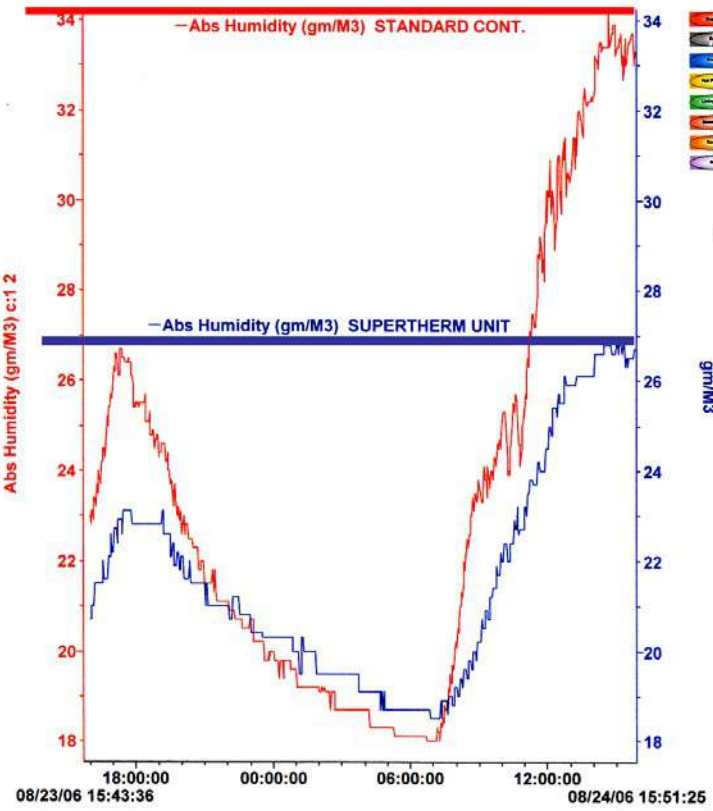


SUPERIOR PRODUCTS
INTERNATIONAL SOUTHWEST

SUPER THERM
FIELD TEST RESULTS
RETROFITTED
SHIPPING CONTAINERS
AUGUST 2006

TYPICAL
THERMOGRAPHIC
SURVEY RESULTS





SUPERIOR PRODUCTS
INTERNATIONAL SOUTHWEST

SUPER THERM
FIELD TEST RESULTS
RETROFITTED
SHIPPING CONTAINERS
AUGUST 2006

TYPICAL DATA COLLECTING POINT AND SURFACE MOISTURE TEST SUPERTHERM UNIT



33 %

TYPICAL DATA COLLECTING POINT AND SURFACE MOISTURE TEST STANDARD CONTAINER



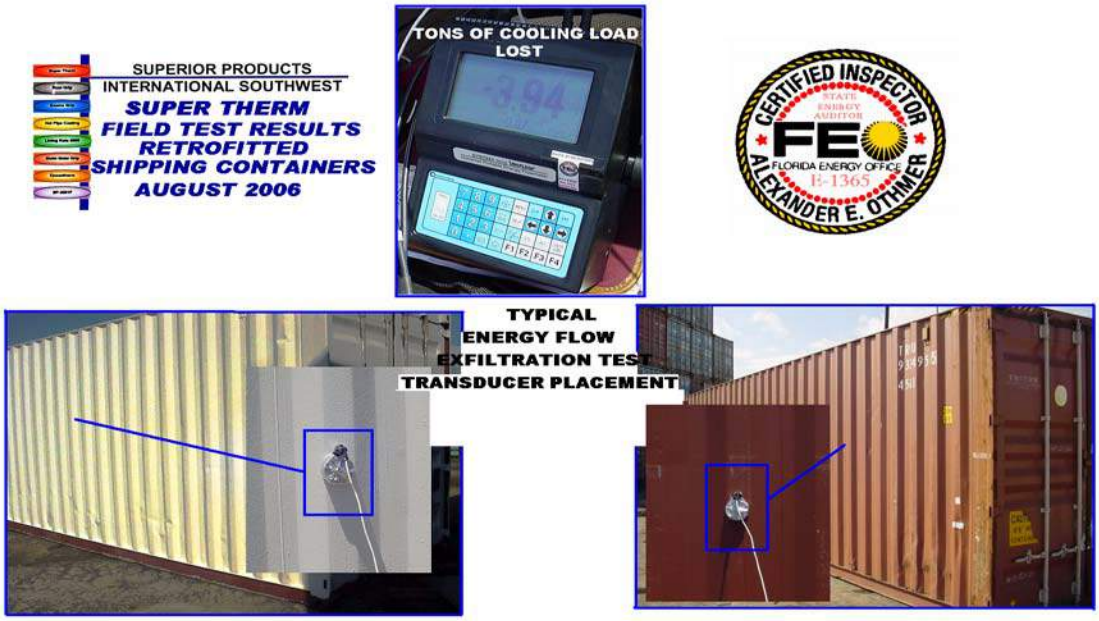
68 %

THE COMBINED DATA INDICATES THAT THE THERMAL ENERGY NECESSARY TO COOL THE CONTAINER COATED WITH THE SUPER THERM PRODUCT WOULD REQUIRE 46 to 52% LESS ENERGY at the time of this survey.

PRECISION & BIAS

In an effort to insure repeatable results additional test were conducted as follows;

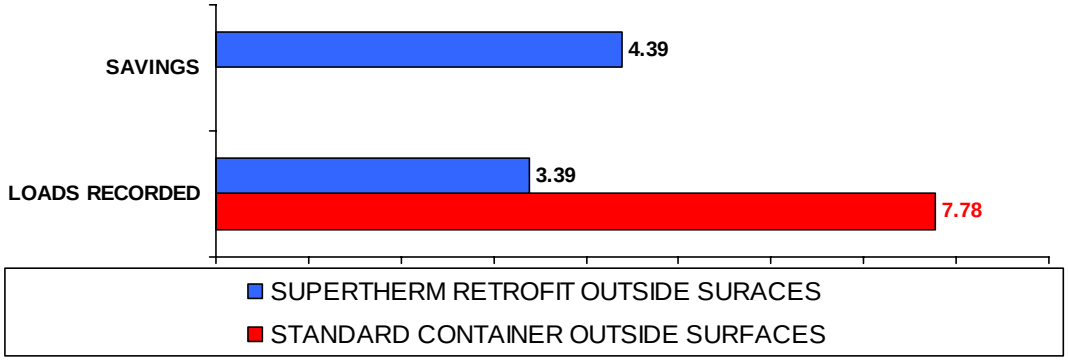




Infiltration factors around all door seals were equal (0 CFM & 0 PA) and had no adverse effect on the recorded data.

The ***EXTERNAL SURFACE Energy Flow Analysis*** also parallel the Internal Surface data as seen in the chart below;

TONS (12,000 BTU) OF COOLING LOAD*
BEING LOST THROUGH EXTERNAL SURFACES
FROM INSIDE THE CONTAINER



* Cooling source 43 Degree/F water at a 6.5 GPM flow rate supplied by a calibration flow tube.

Field Test Results

The location of the test specimens was adequate. Both containers were of standard construction consisting of Carbon Steel side wall, roof and deck sheeting's with a standard wood flooring overlay. The calculated R-Value of the existing Steel parent materials was found to be approximately an R-1.70. The only difference between the two containers consisting of approximately 2,690 Cubic Feet of ***Control Zone Area*** was the external ***SUPER THERM COATING.***



As noted in the test results on the prior pages of this report the differences created by the ***SUPER THERM PRODUCT concerning load reductions produced by thermal conduction, convection and absorption WERE SIGNIFICANT.***

Additionally, ***significant reductions in internal moisture levels were also noted.*** In every instance the ***Field Test results concur with the manufacturers published data on the products anticipated performance curves*** obtained using in laboratory test methods. Our Energy Flow, Heat Flux and Thermographic analysis indicated that the ***standard container*** would require **a minimum of 46% more BTU's of cooling energy** to maintain a comfort level **below 70 Degrees/ F** with the conditions present at the time of this survey.

In retrospect, the container coated with the ***SUPER THERM PRODUCT*** **reduce these loads to manageable levels to maintain the same comfort level.** The ***Ultraviolet absorption test*** also showed a possible reduction in ***SURFACE MAINTENANCE*** as the majority of the ***Harmful UV*** that normally reduces coatings service life ***is not being absorbed by the SUPER THERM COATING*** itself. The aforementioned internal Humidity reduction factors took place ***regardless of the amount of direct solar gain***.

CLOSING COMMENTS

Let me ***thank*** Intermodal Facility & Maintenance, Inc. for giving us the opportunity to use their facility as a field test site. The data collected is a valuable asset to our ***ECAP*** program in building a comprehensive profiling of ***actual energy related loads*** that occur in ***real life applications***. This type of data is critical to other Engineers facing decision making tasks, where published measurement and verification data is not yet available **or inaccurate**.

This report is meant to be an educational guide to familiarize you ***with the actual performance curves of your chosen*** ***E***nergy ***C***onservation ***M***easures based on your supplied data and our field test results.

ASK ABOUT ENERGY STAR

SUPERIOR PRODUCTS
INTERNATIONAL SOUTHWEST
Bill Dwyer
713-960-0400
John Grey
843-813-6402
50 Briar Hollow Lane • Suite 490E
Houston, TX 77027
Office 713-960-0400 • Fax 713-960-8649 •
bdwyer@dwyerco.com

This is the third time we have had the pleasure to test ***SUPER THERM PRODUCTS***, it is rare that a single product will show such ***Repeatable Results*** in three totally different environments, South Florida, Denver Colorado and LaPorte Texas a true testimonial to your products ***ENERGY STAR*** rating. Please feel free to contact our offices if we can be of any assistance in helping you meet your future conservation goals.

Alexander E. Othmer CEA / CBA / NDE III
Dir. Florida Energy Conservation Assistance Program