Miami-Dade County, Florida
BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT
BOARD AND CODE ADMINISTRATION DIVISON
PRODUCT CONTROL SECTION
11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
T (786) 315-2590 Fax (786) 315-2599

Laboratory Certificate

MIAMI-DADE COUNTY APPROVED

This certifies that R & D Services, Inc. located at 102 Mill Drive, Cookeville, TN 38501 is an approved Testing Laboratory in accordance with Miami-Dade County Building Code Compliance and Protocol TAS301-94, and is Certified to perform the following tests:

ASTM C518	ASTM C578 (Excludes Section 11.10, & Appendix X1.1 & X1.2)
ASTM C739	ASTM C665 (Excludes Sec. 13.3)
ASTM C1303	ASTM C764 (Excludes Sec. 12.5)
ASTM C1338	ASTM C1224 (Excludes Sec. 6.5 & 9.1)
ASTM C1371	ASTM C1313 (Excludes Sec. 7.2.3 & 7.2.5)
ASTM D2842	**NVLAP LAB CODE** 200265-0
ASTM D2856	
ASTM E96	
ASTM STD-810D	

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Building Code Compliance Office per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

David W. Yarbrough, P.E.

This Certification and Registration Approved: **December 23, 2010**
This Certification and Registration Expires : **February 13, 2016**

Certification No. : **10-1109.01** *Renews: 08-0811.03*

Jaime D. Gascon
Chief
Product Control Section

Americo Segura
Quality Assurance Supervisor
Product Control Section

The Miami-Dade County Building Code Compliance Office reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.

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United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200265-0

R & D Services, Inc.

Cookeville, TN

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

THERMAL INSULATION MATERIALS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

R & D Services, Inc.
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THERMAL INSULATION MATERIALS

NVLAP LAB CODE 200265-0
Scope Revised: 2010-09-13

NVLAP Code	*Designation / Description*
01/ANOTE	Note: All NVLAP-accredited test methods under the TIM Program apply only to thermal insulation materials or assemblies of materials used to provide resistance to heat flow, including any accessories, vapor retarders, and facings.
Corrosiveness	
01/C01	ASTM C739 (Sec. 9) Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Corrosiveness)
01/C02	16 CFR-Part 1209.5 Cellulose Insulation Test Procedures for Corrosiveness (Loose-Fill)
01/C03	ASTM C665 (Sec. 13.8) Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing (Corrosiveness)
01/C04	ASTM D3310 Determining Corrosivity of Adhesive Materials
01/C05	ASTM C1149 (Sec. 6.7) Self-Supported Spray Applied Cellulosic Thermal Insulation
Mass, Density, and Dimensional Stability	
01/D02	ASTM C167 Thickness and Density of Blanket or Batt Thermal Insulations

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Scope Revised: 2010-09-13

NVLAP Code	*Designation / Description*
01/D09	ASTM C303 Dimensions and Density of Preformed Block and Broad-Type Thermal Insulation
01/D12	ASTM C411 Hot-Surface Performance of High-Temperature Thermal Insulation
01/D13	ASTM C519 Density of Fibrous Loose-Fill Building Insulations
01/D18	ASTM D1622 Apparent Density of Rigid Cellular Plastics
01/D19	ASTM D2126 Response of Rigid Cellular Plastics to Thermal and Humid Aging
01/D23	ASTM D2842 Water Absorption of Rigid Celluar Plastics
01/D24	ASTM C739 (Sec. 12) Cellulosic Fiber Loose-Fill Thermal Insulation (Moisture Vapor Sorption)
01/D26	16 CFR-Part 1209.4 Settled Density (Specimen Container Cellulosic Fiber Loose-Fill)
01/D27	ASTM C739 (Sec. 8) Cellulosic Fiber Loose-Fill Thermal Insulation (Design Density)
01/D32	ASTM D2856 (Proc. A excluded) Open-Cell Content of Rigid Cellular Plastics by the Air Pycnometer
01/D33	ASTM C1497 Cellulosic Fiber Stabilized Thermal Insulation
01/D35	ASTM C1374 Determination of Installed Thickness of Pneumatically Applied Loose-Fill Building Insulation
01/D36	ASTM E605 Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members

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NVLAP Code	*Designation / Description*
01/D37	RDS 100-03 Method for Determining the Resistance to Settling of Thermal Insulation Installed in Wall Cavities
Flammability	
01/F07	16 CFR-Part 1209.6 Critical Radiant Flux (Radiant Panel, Cellulosic Fiber)
01/F08	16 CFR-Part 1209.7 Smoldering Combustion (Smolder Box, Cellulosic Fiber)
01/F09	ASTM C739 (Sec. 10) by ASTM E970 Cellulosic Fiber (Wood Base) Loose-Fill Thermal Insulation (Critical Radiant Flux)
01/F10	ASTM C739 (Sec. 14) Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Smoldering Combustion)
01/F11	ASTM C1485 Critical Radiant Flux of Exposed Attic Floor Insulation Using an Electric Radiant Heat Energy Source
Strength	
01/S01a	ASTM C165 (Proc. A) Standard Test Method for Measuring Compressive Properties of Thermal Insulations
01/S02	ASTM C203 Breaking Load and Flexural Properties of Block-Type Thermal Insulation
01/S07	ASTM C273 Shear Properties in Flatwise Plane of Flat Sandwich Constructions or Sandwich Cores
01/S11	ASTM D1621 (Proc. A of ASTM Practice D618) Compressive Properties of Rigid Cellular Plastics (Crosshead Motion)
01/S16	ASTM C1101/C1101M Classifying the Flexibility or Rigidity of Mineral Fiber Blanket and Board Insulation

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NVLAP Code	*Designation / Description*
01/S18	ASTM C1224 (Sec. 9.5) Reflective Insulation for Building Applications
01/S19	ASTM C578 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation (Exception 11.10)
01/S22	ASTM D1623 Standard Test Methods for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics

Thermal Resistance

01/T05	ASTM C335 Steady-State Heat Transfer Properties of Horizontal Pipe Insulation
01/T06	ASTM C518 Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
01/T09	ASTM C653 Thermal Resistance of Low-Density Blanket-Type Mineral Fiber Insulation
01/T10	ASTM C687 Thermal Resistance of Loose-Fill Building Insulation
01/T15	ASTM C1303 Estimating the Long-Term Change in the Thermal Resistance of Unfaced Rigid Closed-Cell Plastic Foams by Slicing and Scaling Under Controlled Laboratory Conditions

Related Material Properties

01/V04	ASTM E96 Water Vapor Transmission of Materials
01/V05	ASTM C739 (Sec. 11) Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Fungi Resistance)
01/V07	ASTM C1104/C1104M Water Vapor Sorption of Unfaced Mineral Fiber Insulation
01/V08	ASTM C1338 Determining Fungi Resistance of Insulation Materials and Facings

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NVLAP Code	*Designation / Description*
01/V09	ASTM C1371 Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers
01/V10	ASTM C390 Sampling and Acceptance of Thermal Insulation Lots
01/V12	ASTM C739 (Sec. 13) Cellulosic Fiber Loose-Fill Thermal Insulation (Odor Emissions)
01/V13	ASTM C1304 Assessing the Odor Emission of Thermal Insulation Materials
01/V15	ASTM C1313 Sheet Radiant Barriers for Building Construction Applications
01/V16	ASTM C1549 Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer
01/V17	ASTM C1149 Self-Supported Spray Applied Cellulosic Thermal Insulation
01/V18	ASTM E759 Effect of Deflection on Sprayed Fire-Resistive Material Applied to Structural Members
01/V19	ASTM E859 Air Erosion of Sprayed Fire-Resistive Materials (SFRMs) Applied to Structural Members
01/V20	ASTM E736 Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members
01/V21	ASTM C1258 Elevated Temperature and Humidity Resistance of Vapor Retarders for Insulation
01/V22	ASTM C1224 Reflective Insulation for Building Applications

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NVLAP Code	*Designation / Description*
01/V23	ASTM C870 Standard Practice for Conditioning of Thermal Insulating Materials
01/V24	ASTM C1488 Standard Practice for Simulated Aging of Cellulosic Loose-Fill Insulation
01/V25	ASTM D6226 Standard Test Method for Open Cell Content of Rigid Cellular Plastics
01/V26	ASTM C1668 Standard Specifications for Externally Applied Reflective Insulation Systems on Rigid Duct in HVAC Systems

Canadian Standards (Specifications)

01/W05c	CAN/ULC-S702-97, Exce. (6.1.6, 6.2.2, 7.2.8, 7.3.2, 7.3.5) Standard for Mineral Fiber Thermal Insulation for Buildings
01/W06	CAN/ULC-S770-00 Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams
01/W07	CAN/ULC-S703-01 (excludes Sec. 5.2.3, 6.4.3, 6.4.9.2) Cellulose Fibre Insulation (CFI) for Buildings
01/W08	CAN/ULC-S130-M87 Ignition Resistance of Loose Fill Insulation (Cigarette Method)
01/W09	CAN/ULC-S129-06 Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
01/W10	CAN/ULC-S702-09 (excl. 5.2.1.6&8, 5.2.2.2, 6.2.8&10, 6.3.4) Standard for Mineral Fibre Thermal Insulation for Buildings
01/W11	CAN/ULC-S703-09 Standard for Cellulose Fibre Insulation for Buildings
01/W12	CAN/ULC-770-09 Standard Test Method for Determination of Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams

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