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U.S. DEPARTMENT OF COMMERCE/National Bureau of Standards

NVLAQ

Seventh Annual Report and Directory of Accredited Laboratories

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## NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards<sup>1</sup> was established by an act of Congress on March 3, 1901. The Bureau's overall goal is to strengthen and advance the Nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the Nation's physical measurement system, (2) scientific and technological services for industry and government, (3) a technical basis for equity in trade, and (4) technical services to promote public safety. The Bureau's technical work is performed by the National Measurement Laboratory, the National Engineering Laboratory, and the Institute for Computer Sciences and Technology.

**THE NATIONAL MEASUREMENT LABORATORY** provides the national system of physical and chemical and materials measurement; coordinates the system with measurement systems of other nations and furnishes essential services leading to accurate and uniform physical and chemical measurement throughout the Nation's scientific community, industry, and commerce; conducts materials research leading to improved methods of measurement, standards, and data on the properties of materials needed by industry, commerce, educational institutions, and Government; provides advisory and research services to other Government agencies; develops, produces, and distributes Standard Reference Materials; and provides calibration services. The Laboratory consists of the following centers:

Absolute Physical Quantities<sup>2</sup> — Radiation Research — Chemical Physics — Analytical Chemistry — Materials Science

**THE NATIONAL ENGINEERING LABORATORY** provides technology and technical services to the public and private sectors to address national needs and to solve national problems; conducts research in engineering and applied science in support of these efforts; builds and maintains competence in the necessary disciplines required to carry out this research and technical service; develops engineering data and measurement capabilities; provides engineering measurement traceability services; develops test methods and proposes engineering standards and code changes; develops and proposes new engineering practices; and develops and improves mechanisms to transfer results of its research to the ultimate user. The Laboratory consists of the following centers:

Applied Mathematics — Electronics and Electrical Engineering<sup>2</sup> — Manufacturing Engineering — Building Technology — Fire Research — Chemical Engineering<sup>2</sup>

**THE INSTITUTE FOR COMPUTER SCIENCES AND TECHNOLOGY** conducts research and provides scientific and technical services to aid Federal agencies in the selection, acquisition, application, and use of computer technology to improve effectiveness and economy in Government operations in accordance with Public Law 89-306 (40 U.S.C. 759), relevant Executive Orders, and other directives; carries out this mission by managing the Federal Information Processing Standards Program, developing Federal ADP standards guidelines, and managing Federal participation in ADP voluntary standardization activities; provides scientific and technological advisory services and assistance to Federal agencies; and provides the technical foundation for computer-related policies of the Federal Government. The Institute consists of the following centers:

Programming Science and Technology — Computer Systems Engineering.

<sup>1</sup>Headquarters and Laboratories at Gaithersburg, MD, unless otherwise noted; mailing address Washington, DC 20234.

<sup>2</sup>Some divisions within the center are located at Boulder, CO 80303.



# Seventh Annual Report and Directory of Accredited Laboratories

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Harvey W. Berger, Editor

Office of Product Standards Policy  
National Bureau of Standards  
Washington, DC 20234



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U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, Secretary

NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director

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## PREFACE

The Commerce Department's National Voluntary Laboratory Accreditation Program (NVLAP) is a program to improve the reliability of laboratory measurements through transfer of measurement technology. Critical elements of test methods are identified along with precision and accuracies expected from the methods when measurements are made. Proficiency testing and interlaboratory comparisons contribute to improved test methods and laboratory performance.

This seventh annual report provides information on the activities of the National Bureau of Standards (NBS) in carrying out NVLAP during calendar year 1983. Voluntary participation by the Nation's laboratories remains stable and several new accreditation programs requested by government agencies and private organizations are in the final stages of development.

The accredited laboratories have been found competent to perform the specific tests shown in Part II, the Directory of Accredited Laboratories. They have the skilled people, necessary facilities and equipment, and documentation and quality control procedures to produce quality testing data. We recommend that consideration be given to the use of these laboratories whenever their accredited testing capabilities satisfy testing needs.

NVLAP has also provided the basis for acceptance by other countries of test data produced by laboratories in the United States through development of international guidelines for this purpose. We shall continue to work toward liberalizing the means to satisfying trade requirements whenever possible.



*Secretary of Commerce*



# NVLAP—83 SEVENTH ANNUAL REPORT AND DIRECTORY OF ACCREDITED LABORATORIES

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# Part I

## Report of Program Activities

### 1. EXECUTIVE SUMMARY

The National Voluntary Laboratory Accreditation Program (NVLAP) continued accreditation of laboratories in 1983 under the following laboratory accreditation programs (LAPs).

Thermal Insulation Materials (Insulation LAP)  
Freshly Mixed Field Concrete (Concrete LAP)  
Carpet (Carpet LAP)  
Solid Fuel Room Heaters (Stove LAP)  
Acoustical Testing Services (Acoustics LAP)

As of December 31, 1983, 97 laboratories were accredited by NVLAP. Eleven laboratories were accredited in more than one LAP. Seventeen laboratories were accredited for the first time, and 18 laboratories voluntarily terminated their participation in NVLAP.

Fees for accrediting processors of personnel radiation dosimeters and formal announcement of the Dosimetry LAP were published on July 28, 1983. Accreditation of processors will begin in 1984.

A proposed LAP for window and door testing was withdrawn on April 14, 1983, when the affected industry indicated it would develop its own program to accredit laboratories. A final finding of need was published on September 30, 1983, for a photographic film LAP requested by the Association for Information and Image Management, and a workshop will be held in May, 1984 to select test methods for this LAP. A final finding of need was published on October 5, 1983, for a commercial products LAP requested by the International Coalition for Procurement Standards. A public hearing on a pressure calibration services LAP was held on October 19, 1983. A final finding of need will be published early in 1984. A LAP for activated carbon testing, requested by ASTM Committee D28, was announced on October 27, 1983, and final action will be taken on it in 1984. The electromagnetic calibration LAP was suspended on November 18, 1983, because of lack of funds for development of a measurement assurance program deemed necessary by NBS calibration experts in order for the LAP to provide accreditation at the desired measurement accuracy. A proposed LAP for testing portable fire extinguishers is being withdrawn because of oral

comments at a public hearing on November 29, 1983, and written comments generally opposed to the establishment of the LAP.

A memorandum of understanding to provide mutual recognition of NVLAP and the National Physical Laboratory (NPL) of the United Kingdom was signed on October 20, 1983, by Dr. Ernest Ambler, Director of the National Bureau of Standards and Dr. Paul Dean, Director of NPL.

NVLAP is increasing efforts to provide information to all potential system users about existing LAPs. Users include laboratories seeking accreditation and clients of laboratories seeking verification of a laboratory's competence through accreditation.

The Appendix to Part I of this report lists the major publications issued by NVLAP during 1983. Part II of this report is a directory of all laboratories accredited under NVLAP as of the date of issue. The accredited laboratories are listed alphabetically, and are cross-referenced by test method for each LAP and by state.

### 2. ESTABLISHED LABORATORY ACCREDITATION PROGRAMS

Laboratories were accredited by NVLAP under the Insulation, Concrete, Carpet, Stove, and Acoustics programs during 1983. Administrative actions implementing the Dosimetry LAP began in July anticipating evaluation and accreditation in 1984 of laboratories applying for that new program.

#### Insulation LAP

The LAP for thermal insulation materials testing has 62 test methods for which a laboratory can seek accreditation. As of April 1, 1984, 34 laboratories were accredited to perform those test methods. Eighteen on-site visits were made during the year to accredited laboratories or those seeking accreditation. The eighth and ninth rounds of proficiency testing for insulation test methods involving thermal conductivity, settled density, and flammability properties were completed. A NVLAP Tech Brief reporting the proficiency testing results of Round 7 was issued in March, 1983 and a Tech Brief reporting the results of

Round 8 was issued in May, 1983. The results of Round 9 will be issued in 1984.

### Concrete LAP

The LAP for freshly mixed concrete testing has seven test methods covering field testing and laboratory testing. As of April 1, 1984, 38 laboratories were accredited to perform those test methods. Twenty-six on-site visits were made during the year to accredited laboratories or those seeking accreditation. Results of the Concrete LAP between-laboratory proficiency testing program were issued in a February, 1983 Tech Brief. Results of the within-laboratory proficiency testing program were issued in November, 1983.

### Carpet LAP

The LAP for carpet testing has 12 test methods for which a laboratory can seek accreditation. As of April 1, 1984, 23 laboratories were accredited to perform those test methods. The Department of Housing and Urban Development uses test results produced by these laboratories as part of its carpet certification program. Five on-site visits were made during the year to accredited laboratories or those seeking accreditation. The sixth and seventh rounds of proficiency testing were completed for carpet test methods involving colorfastness, pile weight, pile thickness, strength, and flammability properties. A Tech Brief reporting the results of Round 6 and summarizing the results of Rounds 1 through 6, was issued in April, 1983. The results of Round 7 will be issued early in 1984.

### Stove LAP

The LAP for solid fuel room heaters has 20 test methods, arranged in three groups: (1) a physical/fire test group, (2) a mobile home test group, and (3) an electrical test group, for which a laboratory can seek accreditation. A laboratory may be accredited in any or all of the options. As of April 1, 1984, 10 laboratories were accredited to perform those test methods. Six on-site visits were made during the year to accredited laboratories or those seeking accreditation. Round 1 of proficiency testing for stove test methods, involving radiant brand and flash fire tests, was completed. A Tech Brief reporting the results of this first round was issued in February, 1983. Round 2 is in progress and will be reported in 1984.

### Acoustics LAP

The LAP for acoustical testing services has 50 test methods for which a laboratory can seek accreditation. As of April 1, 1984, seven

laboratories were accredited to perform those test methods. Seven on-site visits were made during the year to laboratories seeking accreditation. Data have been collected from participating laboratories for Round 1 of proficiency testing for ASTM test method C 423-81. A Tech Brief reporting the results of this first round will be issued in 1984.

### Dosimetry LAP

Fees for accrediting processors of personnel radiation dosimeters and formal announcement of this new LAP were published in the Federal Register on July 28, 1983 (48 FR 34315-34318). The LAP for personnel dosimetry processors has eight radiation test categories for which a laboratory can seek accreditation. As of April 1, 1984, 27 processors have applied for accreditation in those test categories. Applicants will participate in proficiency testing and receive on-site assessments in 1984 before accreditation decisions are made.

### Laboratory Participation Summary

The number of laboratories in the system, categorized by LAP participation is shown below.

	Number
<b>Laboratories in One LAP</b>	
Insulation (TIM)	23
Concrete (CON)	37
Carpet (CAR)	17
Stove (STO)	8
Acoustics (ACO)	4
<b>Laboratories in Two LAPs</b>	
Insulation and Carpet	5
Insulation and Acoustics	3
Insulation and Stove	1
Insulation and Concrete	1
<b>Laboratories in Three LAPs</b>	
Insulation, Carpet and Stove	1
<b>Total</b>	<b>100</b>

The following table summarizes accreditation actions that have occurred during calendar year 1983. Since some laboratories are accredited in more than one LAP, the number of accredited laboratories listed by LAP is greater than the number of laboratories in the system.

	LAP Name					TOTAL
	TIM	CON	CAR	STO	ACO	
Voluntary Terminations	2	14	1	2	0	18
New Laboratory Accreditations	1	6	0	6	6	17
<b>Total Accredited Labs by LAP</b>	<b>34</b>	<b>38</b>	<b>23</b>	<b>10</b>	<b>7</b>	<b>112</b>

### **3. LAPS UNDER DEVELOPMENT OR BEING CONSIDERED**

#### **Pressure Calibration Services LAP**

A pressure calibration services LAP was requested on April 25, 1983. NBS published a preliminary finding of need in the Federal Register on July 22, 1983 (48 FR 33509-33511), and held public hearings on the proposed LAP on October 19, 1983, at NBS. Public comments on the LAP have been received and are being evaluated, and a final decision will be published in the Federal Register early in 1984.

#### **Activated Carbon LAP**

ASTM Committee D28 on Activated Carbon requested development of a LAP for activated carbon testing on September 20, 1983. Since this request was from a private sector organization, Part 7c of the NVLAP procedures was applied. Since the need had already been established by the requesting organization, NVLAP did not need to publish preliminary or final findings of need.

An announcement of the LAP was published on October 27, 1983 in the Federal Register (48 FR 49685-49687). Public comments will be reviewed by the ASTM committee and final action will be taken on this LAP early in 1984 based on that review.

#### **Commercial Products LAP**

The International Coalition for Procurement Standards (ICPS) requested NVLAP development of a commercial products LAP for government procured items (paper, paint, and mattresses) on March 18, 1983. ICPS membership is comprised of Federal, State, local government, and private sector purchasers. A preliminary finding of need to accredit laboratories that test government procured commercial items was published in the Federal Register on May 20, 1983 (48 FR 22771-22775). Seventeen written statements were filed in response to the preliminary finding, of which one was negative. Based on the responses, a final finding of need was published in the Federal Register on October 5, 1983 (48 FR 45448-45453).

At present, approximately 60 test methods have been tentatively proposed for paper and related products, 120 test methods have been proposed for paint and related coatings and materials, and five test methods have been proposed for mattresses. Laboratories will be invited to seek accreditation in this LAP early in 1984.

#### **Photographic Film LAP**

The Association for Information and Image Management, Silver Spring, Maryland, requested a LAP for photographic film on March 22, 1983. A preliminary finding of need, published in the Federal Register on May 20, 1983 (48 FR 22775-22777), elicited 27 responses of which one was negative. A final finding of need was published on September 30, 1983 (48 FR 44873-44875), and a workshop will be held at NBS in May, 1984 to select critical factors for each test method and prepare implementing documentation. Thus far, 26 test methods have been proposed for the film LAP.

#### **Electromagnetic Calibration Services LAP**

A LAP for electromagnetic calibration services has been under consideration since a final finding of need was published on January 14, 1982 (47 FR 2146-2149). The program was announced on June 30, 1983 (48 FR 30173-30177). A key requirement for operation of the LAP is implementation of a measurement assurance program (MAP). Sufficient developmental funds for the MAP could not be obtained by direct budget appropriations or collection of fees from applicant laboratories. The LAP was therefore suspended on November 18, 1983. It will be reinstated if a MAP can be made financially viable or a satisfactory alternative approach is found.

#### **Ceramic Tile LAP**

The Tile Council of America Inc. (TCA) requested a LAP for testing ceramic tile and ceramic tile adhesives on September 20, 1983. Establishment of this LAP is not practical at this time because of the small number of potential participating laboratories. The NVLAP staff recommended that ASTM Committee C21 be encouraged to request the LAP under Part 7c procedures since the Committee oversees the 11 ASTM test methods requested. Another approach might be to include those test methods in a broader Construction Materials LAP that may be initiated in 1984.

#### **Window and Door Products LAP**

In view of the lack of support for the proposed window and door products LAP in response to the preliminary finding of need, NBS announced withdrawal of this proposed program in the Federal Register on April 14, 1983 (48 FR 16097-16098).

## **Fire Extinguishers LAP**

The State of Florida, Office of State Fire Marshal, requested a fire extinguisher LAP on June 8, 1983. A preliminary finding of need to accredit laboratories that test portable fire extinguishers was published in the Federal Register on October 5, 1983 (48 FR 45453-45455). A public hearing was held at NBS on November 29, 1983, at which time a generally negative response to the proposed LAP was expressed. An announcement of withdrawal of the preliminary finding of need for this LAP was issued in the Federal Register on April 2, 1984.

## **4. INTERNATIONAL ACTIVITIES**

### **International Laboratory Accreditation Conference (ILAC)**

Representatives from NVLAP have participated in International Laboratory Accreditation Conferences since they were first organized in 1977. These conferences have been valuable to NVLAP because of insights gained from others operating laboratory accreditation systems regarding operations, procedures, problems overcome, and current problems in assessing and accrediting laboratories. Participation in ILAC also provides a basis for bilateral agreements between accreditation systems and a forum for presentation of the U.S. position worldwide with respect to laboratory accreditation.

The Director of the NBS Office of Product Standards Policy led the 12-member U.S. delegation, 10 of whom were from the private sector, to ILAC 83 held during the first week in November. The plenary session resolved to authorize publication of the third version of the ILAC Directory for 1984. Reports on laboratory assessors, administrative procedures, post accreditation activities, and proficiency testing were reviewed and approved. Guidelines for setting calibration intervals were approved and publication by the Organization of International Legal Metrology (OIML) was suggested if arrangements could be worked out. Analyses of existing international agreements involving the mutual acceptance of laboratory accreditation systems and of test results issued by laboratories accredited under those systems continued.

New programs authorized included the development of criteria for acceptance of proficiency programs, preparation of guidelines on the form and content for national directories, criteria for evaluating laboratory accreditation systems, and analysis of the use of in-house laboratory test data in accreditation programs.

## **Bilateral Agreements**

On October 20, 1983, Dr. Ernest Ambler, Director of the National Bureau of Standards and Dr. Paul Dean, Director of the National Physical Laboratory of the United Kingdom, signed a memorandum of understanding to provide mutual recognition of NVLAP and NPL accredited testing laboratories. The NPL program, known as the National Testing Laboratory Accreditation Scheme has accredited over 200 laboratories. The agreement is similar to those signed by NBS with the New Zealand and Australia national laboratory accreditation systems which establish reciprocity between NVLAP and both the New Zealand Testing Laboratory Registration Council and Australian National Association of Testing Authorities (NATA).

## **5. ADMINISTRATION AND OTHER ACTIVITIES**

NVLAP operates under the legal authority vested in the Secretary of Commerce by 15 U.S.C. 272 and Reorganization Plan No. 3 of 1946, Part VI. Rules and regulations governing NVLAP (NVLAP procedures) are found under Title 15, Parts 7a, 7b, and 7c of the Code of Federal Regulations. The Secretary has delegated the operational responsibility for NVLAP to the Director of NBS.

### **Resources**

For fiscal year 1983, beginning October 1, 1982, \$698,000 was allocated for NVLAP activities. For fiscal year 1984, beginning October 1, 1983, \$560,000 has been allocated. During the past year the staffing level was equivalent to 11 full-time persons. A total of \$127,900 in fees was paid by laboratories seeking accreditation to offset the costs associated with their evaluation and accreditation in fiscal year 1983.

### **NVLAP Procedures Revision**

A review of NVLAP procedures was initiated for possible revision leading to a simpler, more rapid, and economical process for requesting, evaluating, and implementing new LAPs. Proposed and final changes will be published in the Federal Register in 1984.

### **Laboratory Assessment Personnel**

NVLAP used 12 technical experts (TE) to perform on-site assessments, review technical data

and documents submitted by the laboratories, and recommend accreditation actions for the five established LAPs. Annual fees paid by the laboratories provide the funds required to perform laboratory assessments. NBS reimburses the technical experts for travel, living expenses, and hourly costs for inspecting laboratories, preparing reports, and responding to NVLAP requests for technical reviews of proficiency test data and other documents.

In the Dosimetry LAP for the first time industry experts will provide their time as laboratory assessors to NVLAP, free of charge. NVLAP's costs will be limited to travel and living expenses. Currently, 14 new technical experts have been selected to perform dosimetry laboratory assessments.

## Appendix List of Documents

January 21	Federal Register: Quarterly Report (Oct. 1–Dec. 1982)
February	NVLAP Tech Brief: Between-Laboratory Proficiency Program for the Concrete LAP
February	NVLAP Tech Brief: Stove LAP, Round 1
February	NVLAP Lab Bulletin No. 10: Acceptable Certification Programs for Concrete Technicians
March	NVLAP Tech Brief: Insulation LAP, Round 7
April	NVLAP Tech Brief: Carpet LAP, Round 6
April 14	Federal Register: Withdrawal of preliminary findings of need to accredit laboratories that test door and window products
April 20	Federal Register: Quarterly Report (Jan. 1–Mar. 31) 1st for 1983
May	NVLAP Lab Bulletin No. 11: New Edition of Underwriters Laboratory Standard 1482 for Solid Fuel Room Heaters
May	NVLAP Tech Brief: Insulation LAP, Round 8
May 20	Federal Register: Request for comments on a preliminary finding of need to accredit laboratories that test government procured commercial items
May 20	Federal Register: Request for comments on a preliminary finding of need to accredit laboratories that test microforms
June	ASTM Standardization News: NVLAP and NATA Assessment Procedures
June 30	Federal Register: Notice of formal establishment of a program for accrediting laboratories that provide electromagnetic calibration services
July 22	Federal Register: Quarterly Report (Apr. 1–June 30) 2nd for 1983
July 22	Federal Register: Request for comments on a preliminary finding of need to accredit laboratories that provide pressure calibration services
July 28	Federal Register: Notice of fees for accrediting processors of personnel radiation dosimeters
August	Eighth Issue of NVLAP News, August 1983
August 8	Federal Register: Notice updating announcement of availability of laboratory accreditation programs
September 20	Federal Register: Notice of final finding of need to accredit testing laboratories that test photographic film
September	NVLAP Sixth Annual Report of Calendar Year 1982
October 5	Federal Register: Quarterly Report: (July–Sept. 30) 3rd for 1983
October 5	Federal Register: Notice of final finding of need to accredit laboratories that test commercial products
October 5	Federal Register: Request for comments on a preliminary finding of need to accredit laboratories that test portable fire extinguishers
October 27	Federal Register: Request for a laboratory accreditation program for activated carbon
November 8	Federal Register: Notice of public hearing regarding fire extinguishers
December	Ninth Issue of NVLAP News, December 1983.

# Part II

## Directory of Accredited Laboratories

*This directory is current as of April 1, 1984*

### Section 1

#### ACCREDITED LABORATORIES AND THE TEST METHODS FOR WHICH EACH LABORATORY IS ACCREDITED

**NOTE:** The following section lists accredited laboratories in order of ascending NVLAP Lab Code Number. Sections 2, 3, 4, and 5 are lists of laboratories by test method, state, and laboratory accreditation program (LAP) which are also cross-referenced by NVLAP Lab Code Number.

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NVLAP LAB CODE 0101

**CERTAINTEED CORPORATION  
INSULATION GROUP, R & D LABORATORY  
1400 Union Meeting Road, Blue Bell, PA 19422  
Dr. W. Francis Olix Phone: 215-542-0500**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C03	California Energy Commission tests for insulating materials: Corrosiveness - Mineral fiber blankets and loose-fill	
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/S12	California Energy Commission tests for insulating materials: Bond strength - Spray applied cellulose	
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

NVLAP LAB CODE 0102

**BUTLER MANUFACTURING COMPANY  
RESEARCH CENTER  
135th Street and Botts Road, Grandview, MO 64030  
Marvin K. Snyder Phone: 816-763-3022**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0103

**DOW CHEMICAL USA, FOAM PRODUCTS RESEARCH  
PRODUCT EVALUATION GROUP  
P.O. Box 515, Granville, OH 43023  
Dale E. Keeler Phone: 614-587-4313**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

NVLAP LAB CODE 0104

**NAHB RESEARCH FOUNDATION, INC.**

P.O. Box 1627, Rockville, MD 20850  
Hugh Angleton Phone: 301-762-4200

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

NVLAP LAB CODE 0105

**UNITED STATES TESTING COMPANY, INC.**

1415 Park Avenue, Hoboken, NJ 07030  
Carl B. Yoder Phone: 201-792-2400

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings  Textile Test Method - Breaking Strength Textile Test Method - Delamination

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

NVLAP LAB CODE 0106

**UNITED STATES TESTING COMPANY, INC.  
CALIFORNIA DIVISION  
5555 Telegraph Road, Los Angeles, CA 90040  
Bernd Givon Phone: 213-723-7181**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

NVLAP LAB CODE 0107

**UNITED STATES TESTING COMPANY, INC.  
TULSA DIVISION  
1341 North 108th East Avenue, Tulsa, OK 74116  
Fred D. Wampnar Phone: 918-437-8333**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

NVLAP LAB CODE 0108

**CERTIFIED TESTING LABORATORIES, INC.**  
**1105 Riverbend Drive, P.O. Box 2041, Dalton, GA 30720**  
**John H. Frank Phone: 404-226-1400**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

NVLAP LAB CODE 0109

**OWENS-CORNING FIBERGLAS CORPORATION**  
**TECHNICAL CENTER LABORATORY**  
**P.O. Box 415, Route 16, Granville, OH 43023**  
**William M. Edmunds Phone: 614-587-7024—For Insulation LAP**  
**Ron Moulder Phone: 614-587-7066—For Acoustics LAP**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C01	ASTM C739 (para. 10.7 in 80 version)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C03	California Energy Commission tests for insulating materials: Corrosiveness - Mineral fiber blankets and loose-fill	
01/D02	ASTM C167	Thickness and density; Blanket and batt

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 14 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D07	ASTM C272	Density; Preformed block insulation
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D24	ASTM C739 (para. 10.5 in 80 version)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/D29	California Energy Commission tests for insulating materials: Installed compressed thickness	
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S07	ASTM C273	Shear test; Sandwich construction
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/S12	California Energy Commission tests for insulating materials: Bond strength - Spray applied cellulose	
01/S13	California Energy Commission tests for insulating materials: Bond deflection - Spray applied cellulose	
01/S14	California Energy Commission tests for insulating materials: Air erosion - Spray applied cellulose	
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02	TAPPI T419	Starch in paper; Qualitative test
01/V03	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
08/P01	ASTM C367-78	Strength Properties, Prefabricated Architectural Acoustical Materials
08/P02	ASTM C384-77	Impedance and Absorption of Acoustical Materials

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P04	ASTM C522-80	Airflow Resistance of Acoustical Materials
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ASTM E90-82	Airborne Sound Transmission Loss of Building Partitions
08/P10	ANSI S1.31-80	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (100 to 10,000 Hz)
08/P13	ANSI S1.32-80	Sound Power Levels, Discrete-Frequency and Narrow-Band Noise Sources in Reverberation Rooms (100 to 10,000 Hz)
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

NVLAP LAB CODE 0111

**JIM WALTER RESEARCH CORPORATION**  
**10301 9th Street North, St. Petersburg, FL 33702**  
**Alan P. Conroy Phone: 813-576-4171**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 14 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D07	ASTM C272	Water absorption; Core materials
01/D09	ASTM C303	Density; Preformed block insulation
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P03	ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

NVLAP LAB CODE 0113

**DYNATECH R/D COMPANY**  
**THERMOPHYSICS LABORATORY**  
 99 Erie Street, Cambridge, MA 02139  
 Andre O. Desjarlais Phone: 617-868-8050

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0114

**SOUTHWEST RESEARCH INSTITUTE**  
**DEPARTMENT OF FIRE TECHNOLOGY**  
 6220 Culebra Road, San Antonio, TX 78238  
 Carl A. Hafer Phone: 512-684-5111

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F02	UL 992	Surface Flammability
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

**FACTORY MUTUAL RESEARCH CORPORATION**  
**1151 Boston-Providence Turnpike, Norwood, MA 02062**  
**William F. Maroni Phone: 617-762-4300**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

**UNDERWRITERS LABORATORIES INC.**  
**333 Pfingsten Road, Northbrook, IL 60062**  
**Steve Mazzoni Phone: 312-272-8800**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C01	ASTM C739 (para. 10.7 in 80 version)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 14 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D14	ASTM C520	Density; Granular loose-fill
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D24	ASTM C739 (para. 10.5 in 80 version)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F06	ASTM C739 (para. 10.4 in 80 version)	Flame resistance permanency; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02	TAPPI T419	Starch in paper; Qualitative test
01/V03	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F02	UL 992	Surface Flammability
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<b>MOBILE HOME TEST GROUP (04/M00)</b>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<b>ELECTRICAL TEST GROUP (04/E00)</b>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0117

**UNDERWRITERS LABORATORIES INC.  
SANTA CLARA, CALIFORNIA LABORATORY  
1655 Scott Boulevard, Santa Clara, CA 95050  
Steven Roll Phone: 408-985-2400**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
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04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<b>MOBILE HOME TEST GROUP (04/M00)</b>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<b>ELECTRICAL TEST GROUP (04/E00)</b>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0119

**INTEST LABORATORIES, INC.**  
 2820 Anthony Lane South, Minneapolis, MN 55418  
 Donald L. Valsvik Phone: 612-781-2603

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P02	ASTM C384-77	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90-82	Airborne Sound Transmission Loss of Building Partitions
08/P11	ANSI S1.31-80 (direct method only)	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (direct method only) (100 to 10,000 Hz)
08/E04	ANSI S3.19-75	Noise Protection, Hearing Protectors and Earmuffs
08/E13	SAE J192a-75	Exterior Sound Level of Snowmobiles
08/E14	SAE J1161-76	Sound Level Measurement Procedure for Snow Vehicles
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

**COMMERCIAL TESTING COMPANY**  
 1215 South Hamilton Street, P.O. Box 985, Dalton, GA 30720  
 Jonathan Jackson Phone: 404-278-3935

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

**SPARRELL ENGINEERING RESEARCH CORPORATION**  
 Bristol Road, P.O. Box 130, Damariscotta, ME 04543  
 James K. Sparrell Phone: 207-563-3224

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

## MANVILLE CORPORATION, R &amp; D CENTER

P.O. Box 5108, Denver, CO 80217

Joseph P. Ferraro Phone: 303-978-5553

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209	Thickness;
	(para. 6 in 72 version)	Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209	Water absorption, 24 hour;
	(para. 13 in 72 version)	Board (cellulosic fiber)
	by D1037	
	(para. 100-106 in 78 version)	
01/D06	ASTM C209	Linear expansion;
	(para. 14 in 72 version)	Board (cellulosic fiber)
	by D1037	
	(para. 107-110 in 72 version)	
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat;
		Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance;
		High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics;
		Building materials
01/F05	ASTM E136	Behavior of Materials in a
		Vertical Tube Furnace
01/S01	ASTM C165	Compressive properties; Thermal
		insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength;
		Preformed block insulation
01/S03	ASTM C209	Transverse strength;
	(para. 9 in 72 version)	Board (cellulosic fiber)
01/S04	ASTM C209	Deflection at specified load;
	(para. 10 in 72 version)	Board (cellulosic fiber)
01/S05	ASTM C209	Tensile strength; Parallel to surface;
	(para. 11 in 72 version)	Board (cellulosic fiber)
01/S06	ASTM C209	Tensile strength; Perpendicular to
	(para. 12 in 72 version)	surface
01/S08	ASTM C446	Breaking load/modulus of rupture;
		Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and
		paperboard
01/T01	ASTM C177	Thermal transmission properties;
		Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat
		flow meter
01/T09	ASTM C653	Thermal resistance (Rec.
		Practice); Blanket (mineral fiber)

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P02	ASTM C384-77	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P04	ASTM C522-80	Airflow Resistance of Acoustical Materials
08/P06	ASTM E90-82	Airborne Sound Transmission Loss of Building Partitions

NVLAP LAB CODE 0124

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

Box 89, 960 Central Expressway, Santa Clara, CA 95052  
J.P. Tetreault Phone: 408-727-3535

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0125

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

700 McLaren Road, Fairburn, GA 30213  
Larry Maynard Phone: 404-969-2915

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0126

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

Box 15139 Fairfax Station, Kansas City, KS 66115  
Glen McCoy Phone: 913-281-2811

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

Box 8, Davis & Shreeve Roads, Barrington, NJ 08007  
Charles Sitka Phone: 609-547-9200

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0128

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

P.O. Box 89, Delmar, NY 12054  
Mark P. Arnold Phone: 518-439-9341

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0129

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

Case Avenue, Newark, OH 43055  
P. D. Shull Phone: 614-345-3441

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0130

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

P.O. Box 837, I-35 East, Waxahachie, TX 75165  
Mark Kwassowski Phone: 214-937-1340

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**THE H. C. NUTTING COMPANY**  
 4120 Airport Road, P.O. Box C, Cincinnati, OH 45226  
 James T. Larbes Phone: 513-321-5816

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0132

**THE TANNER COMPANIES**  
**UNITED METRO DIVISION LABORATORY**  
 3240 South 19th Avenue, Phoenix, AZ 85036  
 Harold J. Wright Phone: 602-262-1323

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0133

**THE WALT KEELER COMPANY, INC.**  
 826 East Lincoln Street, P.O. Box 197, Wichita, KS 67201  
 Kelly B. Callison Phone: 316-265-0615

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0135

**AGUIRRE ENGINEERS, INC.**  
 13276 East Fremont Place, P.O. Box 3014, Englewood, CO 80155  
 Vukoslav E. Aguirre Phone: 303-694-2277

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0136

**CONTRACTORS SUPPLY CORPORATION OF WEST VIRGINIA, INC.**  
 P.O. Box 6587, 24th & Water, Wheeling, WV 26003  
 Anthony A. Gulo Phone: 304-232-1048

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

**CONSTRUCTION TECHNOLOGY LABORATORY  
A DIVISION OF PORTLAND CEMENT ASSOCIATION  
5420 Old Orchard Road, Skokie, IL 60077  
Michael E. Pecoraro Phone: 312-965-7500**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**AMERICAN CARPET LABORATORIES, INC.  
111 West Nashville Street, P.O. Box 357, Ringgold, GA 30736  
Michael D. Connell Phone: 404-935-5672**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

**GENSTAR STONE PRODUCTS COMPANY  
QUALITY CONTROL LABORATORY  
10300 Pulaski Highway, White Marsh, MD 21162  
Robert L. Chester Phone: 301-628-4000**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0142

**GEOSCIENCE LTD.**

410 South Cedros Avenue, Solana Beach, CA 92075

Heinz F. Poppendiek Phone: 619-755-9396

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D08	ASTM C302	Density; Preformed pipe insulation
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box

NVLAP LAB CODE 0143

**KELSO INDUSTRIES, INC.  
QUALITY CONTROL LABORATORY**

P.O. Box 659, Galveston, TX 77553

Chris G. Slate Phone: 713-744-5341

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**AMERICAN TESTING LABORATORIES, INC.**  
 Box 4014, 784 Flory Mill Road, Lancaster, PA 17604  
 John S. Kassees Phone: 717-569-0488

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0149

**E & B CARPET MILLS**  
 1020 Riverbend Drive, P.O. Box 2047, Dalton, GA 30720  
 Robert H. Davis Phone: 404-278-3197

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

NVLAP LAB CODE 0151

**HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION**  
 P.O. Box 2789, 1825 Faraday Drive, Reston, VA 22090  
 William J. Groah Phone: 703-435-2900

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

NVLAP LAB CODE 0154

**THE ARUNDEL CORPORATION  
GREENSPRING LABORATORY**  
6806 Greenspring Avenue, Baltimore, MD 21209  
David Wherley Phone: 301-296-6400

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0156

**BIGELOW-SANFORD, INC.**  
**GEORGIA RUG MILL**  
Lyerly Street, Summerville, GA 30747  
Van A. Pullen Phone: 404-857-2421

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/B01	UM 44C Addendum 3	Attached Cushion Tests

**CHISHOLM TRAIL TESTING AND ENGINEERING COMPANY, INC.**

302 South Miller Street, Decatur, TX 76234  
 James F. Rosendahl Phone: 817-627-5216

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

**ENGINEERING TESTING LABORATORY  
 CITY OF AKRON**

1420 Triplett Blvd, Bldg #2, Akron, OH 44306  
 Thomas H. Butler Phone: 216-375-2861

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**WESTERN TECHNOLOGIES, INC.**

3737 East Broadway Road, P.O. Box 21387, Phoenix, AZ 85036  
 J. G. Bennitt Phone: 602-437-3737

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0163

**GALAXY CARPET MILLS, INC.**  
**GALAXY TESTING LABORATORY**  
P.O. Box 800, Industrial Blvd., Chatsworth, GA 30705  
Lou Childers Phone: 404-695-9611

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

NVLAP LAB CODE 0164

**GENERAL TESTING LABORATORIES, INC.**  
1517 Walnut Street, Kansas City, MO 64108  
Laurence Poisner Phone: 816-471-1205

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

**HERRON CONSULTANTS, INC.**  
**5555 Canal Road, Cleveland, OH 44125**  
**Jon Hugh Peterson Phone: 216-447-1335**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**INDEPENDENT TEXTILE TESTING SERVICE, INC.**  
**P.O. Box 1948, 1499 Murray Avenue, Dalton, GA 30720**  
**Cornelius C. Setter Phone: 404-278-3013**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

**OLIN CORPORATION**  
**PHYSICAL TESTING LABORATORY**  
 Box 30-275, 275 Winchester Avenue, New Haven, CT 06511  
 D. Robert Shine Phone: 203-789-6292

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/S07	ASTM C273	Shear test; Sandwich construction
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0173

**STS CONSULTANTS, LTD.**  
 Raleigh NC Office, P.O. Box 12015, Research Triangle Park, NC 27709  
 Barney Hale Phone: 919-787-5124

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**W. R. GRACE & COMPANY**  
**CONSTRUCTION PRODUCTS DIVISION**  
 62 Whittemore Avenue, Cambridge, MA 02140  
 Stephen A. Valle Phone: 617-876-1400

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**ATLANTIC TESTING LABS, LTD.**  
**CICERO DIVISION**  
 P.O. Box 356, Rte 31 at Rte 81, Cicero, NY 13039  
 Robert van der Horst Phone: 315-699-5281

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**BIGELOW-SANFORD, INC.**  
**TECHNICAL SERVICES**  
 P.O. Box 3089, Greenville, SC 29602  
 Hamir D. Merchant Phone: 803-299-2630

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B01	UM 44C Addendum 3	Attached Cushion Tests

NVLAP LAB CODE 0183

**A & H/FLOOD ENGINEERING**  
**4421 Harrison Street, Hillside, IL 60162**  
**Paul E. Flood Phone: 312-449-0500**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0185

**LANDER THERMAL CONDUCTIVITY LABORATORY**  
**1320 West 28th Street, Minneapolis, MN 55408**  
**R. M. Lander Phone: 612-872-7230**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T05	ASTM C335	Thermal conductivity; Pipe insulation

**C. H. MASLAND AND SONS**  
**P.O. Box 40, Carlisle, PA 17013**  
**David A. Boyles Phone: 717-249-1866**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

**TWIN CITY TESTING AND ENGINEERING LABORATORY, INC.**  
**662 Cromwell Avenue, St. Paul, MN 55114**  
**Richard Stehly Phone: 612-645-3601**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T04	ASTM C236	Thermal conductance; Guarded hot box
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**CENTRAL READY-MIXED CONCRETE**  
**RESEARCH & TECHNICAL CENTER**  
**4350 South 13th Street, Milwaukee, WI 53221**  
**Christine B. Madderom Phone: 414-282-4200**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

NVLAP LAB CODE 0190

**CORONET CARPETS  
CORONET INDUSTRIES**

P.O. Box 1248, Cleveland Drive, Dalton, GA 30720  
Winfred L. Jones Phone: 404-259-4511

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

NVLAP LAB CODE 0191

**STS CONSULTANTS, LTD.**

111 Pfingsten Road, Northbrook, IL 60062  
Michael T. Russell Phone: 312-272-6520

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**SMITH-EMERY COMPANY**

781 East Washington Boulevard, Los Angeles, CA 90021  
 George E. Battey, Jr. Phone: 213-749-3411

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0193

**SHAW INDUSTRIES, INC.**

Plant #4, S. Hamilton St. Ext., P.O. Drawer 2128, Dalton, GA 30720  
 Carey Mitchell Phone: 404-278-3812

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

NVLAP LAB CODE 0195

**GARCO TESTING LABORATORIES**

41 West Central Avenue, P.O. Box 7006, Salt Lake City, UT 84107  
 Douglas L. Watson Phone: 801-266-4498

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0196

**TEXAS TESTING LABORATORIES, INC.**  
 1526 South Good-Latimer Expressway, P.O. Box 2144, Dallas, TX 75221  
 George W. Pluto Phone: 214-428-7481

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0197

**WORLD CARPETS**  
**QUALITY CONTROL PHYSICAL TESTING**  
 One World Plaza, Dalton, GA 30720  
 Wayne Murdock Phone: 404-278-8000

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

**STANDARD TESTING AND ENGINEERING COMPANY**

3400 Lincoln Boulevard, Oklahoma City, OK 73105

Daniel B. Hapke Phone: 405-528-0541

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0201

**PITTSBURGH TESTING LABORATORY**

850 Poplar Street, Pittsburgh, PA 15220

William H. Levelius Phone: 412-922-4000

Accreditation Renewal Date: October 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0203

**CONROCK CO. TESTING LABORATORY**

P.O. Box 2950, Terminal Annex, Los Angeles, CA 90051

James Neal Van Nest Phone: 213-258-2777

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0205

**WEST VIRGINIA DEPT OF HIGHWAYS  
MATERIALS CONTROL, SOIL & TESTING  
312 Michigan Avenue, Charleston, WV 25311  
Thomas M. Dugan Phone: 304-348-3160**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0206

**R. W. SIDLEY, INC.  
QUALITY CONTROL LABORATORY  
6900 Madison Road, Thompson, OH 44086  
Lawrence McCune Phone: 216-298-3232**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**GULF COAST TESTING LABORATORY, INC.**  
**1205 North Tanchua Street, Corpus Christi, TX 78401**  
**Doyme Reynolds Phone: 512-882-5411**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0210

**INSTA-FOAM PRODUCTS, INC.**  
**1500 Cedarwood Drive, Joliet, IL 60435**  
**Joseph John Elsey Phone: 815-741-6851**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

**PARRATT-WOLFF, INC.**  
 Fisher Road, East Syracuse, NY 13057  
 Bruce L. Higgins Phone: 315-437-1429

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0215

**CONSTRUCTION MATERIALS CONSULTANTS, INC.**  
 1000 West Fillmore Street, Colorado Springs, CO 80907  
 Ivan A. Vanaken Phone: 303-632-2588

Accreditation Renewal Date: July 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0216

**UNITED STATES GYPSUM COMPANY, RESEARCH CENTER**  
 700 North Highway 45, Libertyville, IL 60048  
 William F. Porter Phone: 312-362-9797

Accreditation Renewal Date: July 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T06	ASTM C518	Thermal transmission properties; Heat

**APACHE BUILDING PRODUCTS CO.**  
 2025 East Linden Avenue, Linden, NJ 07036  
 Dennis W. Rosato Phone: 201-486-6723

Accreditation Renewal Date: October 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0220

**STRATTON LABORATORIES**  
 Highway 61 South, P.O. Box 1007, Cartersville, GA 30120  
 Jack R. Kilgore Phone: 404-382-9350

Accreditation Renewal Date: October 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

NVLAP LAB CODE 0221

**SALEM CARPET LABORATORY**  
 Highway 225 South, P.O. Box 160, Chatsworth, GA 30705  
 Michael A. Corbin Phone: 404-695-4663

Accreditation Renewal Date: July 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

**PFS CORPORATION**  
 2402 Daniels Street, Madison, WI 53704  
 Ed Starostovic Phone: 608-221-3361

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<b>MOBILE HOME TEST GROUP (04/M00)</b>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<b>ELECTRICAL TEST GROUP (04/E00)</b>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0225

**ARNOLD GREENE TESTING LABORATORIES, INC.**  
 2 Millbury Street, Auburn, MA 01501  
 Robert J. Halliday Phone: 617-235-7330

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16

<i>NVLAP Code</i>	<i>Short Title</i>		
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<b>MOBILE HOME TEST GROUP (04/M00)</b>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<b>ELECTRICAL TEST GROUP (04/E00)</b>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**NVLAP LAB CODE 0226**

**WISS, JANNEY, ELSTNER AND ASSOCIATES, INC.**  
 330 Pfingsten Road, Northbrook, IL 60062  
 Jerry G. Stockbridge Phone: 312-272-7400

**Accreditation Renewal Date: July 1, 1984**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T04	ASTM C236	Thermal conductance; Guarded hot box

**NVLAP LAB CODE 0227**

**RIVERBANK ACOUSTICAL LABORATORY OF IITRI**  
 P.O.Box 189, 1512 Batavia Avenue, Geneva, IL 60134  
 Owen J. Viergutz Phone: 312-567-4703

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ASTM E90-82	Airborne Sound Transmission Loss of Building Partitions
08/P07	ASTM E492-82	Impact Sound Transmission Through Floor-Ceiling Assemblies
08/P10	ANSI S1.31-80	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (100 to 10,000 Hz)
08/P17	ISO 3741-75	Sound Power Levels, Broad-Band Sources in Reverberation Rooms (100 to 10,000 Hz)
08/E01	ANSI B71.1-80 (para. 9 and 21)	Sound Level Tests; Power Lawn Mowers, Lawn and Garden Tractors and Lawn Tractors

**ARMSTRONG WORLD INDUSTRIES  
TECHNICAL CENTER, ACOUSTICS LABORATORY  
2500 Columbia Avenue, P.O.Box 3511, Lancaster, PA 17604  
G. Robert Spalding Phone: 717-397-0611**

**Accreditation Renewal Date: January 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ANSI/ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P07	ANSI/ASTM E492-82	Impact Sound Transmission Through Floor-Ceiling Assemblies

**NVLAP LAB CODE 0229**

**GOLD BOND BUILDING PRODUCTS  
A NATIONAL GYPSUM DIVISION, RESEARCH CENTER  
1650 Military Road, Buffalo, NY 14217  
Joseph Volk Phone: 716-873-9750**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ASTM E90-82	Airborne Sound Transmission Loss of Building Partitions
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

**NVLAP LAB CODE 0230**

**VIRGINIA CONCRETE LABORATORY  
6555 Edsall Road, Box 666, Springfield, VA 22150  
Richard A. Buckelew Phone: 703-354-6111**

**Accreditation Renewal Date: April 1, 1984**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**EASTCOAST TESTING & ENGINEERING, INC.**  
 430 Northwest Flagler Drive, Ft. Lauderdale, FL 33301  
 Craig S. Smith Phone: 305-523-4244

Accreditation Renewal Date: July 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

**RITCHIE LABORATORIES**  
 1820 North Mosley, P.O. Box 4048, Wichita, KS 67204  
 Donald J. Brockel Phone: 316-263-9937

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**STS CONSULTANTS, LTD.**  
**FAIRFAX VA OFFICE**  
 2929-C Eskridge Road, Fairfax, VA 22031  
 Henry L. Lucas Phone: 703-698-5300

Accreditation Renewal Date: October 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

NVLAP LAB CODE 0235

**PACIFIC INSPECTION AND RESEARCH LABORATORY, INC.**  
**4076 148th Avenue North East, Redmond, WA 98052**  
**Ronald J. Weisel Phone: 206-881-7668**

**Accreditation Renewal Date: October 1, 1984**

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737 5th Edition (March 1, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<b>MOBILE HOME TEST GROUP (04/M00)</b>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<b>ELECTRICAL TEST GROUP (04/E00)</b>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0237

**PITTSBURGH TESTING LABORATORY**  
**SYRACUSE, NY PLANT LABORATORY**  
**850 Poplar Street, Pittsburgh, PA 15220**  
**William H. Levelius Phone: 412-922-4000**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0238

**TOLEDO TESTING LABORATORY, INC.**  
 1810 North 12th Street, Toledo, OH 43624  
 Thomas R. Uhler Phone: 419-241-7175

Accreditation Renewal Date: October 1, 1984

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

NVLAP LAB CODE 0240

**OMNI ENVIRONMENTAL SERVICES**  
**SOLID FUEL TESTING LABORATORY**  
 10950 SW 5th Street, Suite 245, Beaverton, OR 97005  
 Gary E. Nelke Phone: 503-643-3755

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
PHYSICAL/FIRE TEST GROUP (04/F00)			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
MOBILE HOME TEST GROUP (04/M00)			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

<i>NVLAP Code</i>	<i>Short Title</i>		
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0243

**CUSTOM COATING, INC.**  
 204 West Industrial Blvd., Dalton, GA 30720  
 James E. Whitfield Phone: 404-277-3778

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F03	DoC FF1-70	Methenamine Pill Test

NVLAP LAB CODE 0244

**NORTHWEST TESTING LABORATORIES, INC.**  
 P.O. Box 17126, Portland, OR 97217  
 Paul Irish Phone: 503-288-7086

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36

<i>NVLAP Code</i>	<i>Short Title</i>		
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0245

**R. F. GEISSER & ASSOCIATES, INC.**  
 120 Pershing Street, P.O. Box 4526, East Providence, RI 02914  
 Russell F. Geisser Phone: 401-438-7320

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737 5th Edition (March 1, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**STOVE TESTING LAB**  
 2721 North Hayden Island Drive, Portland, OR 96217  
 Sharon Conrad Phone: 503-283-9711

Accreditation Renewal Date: January 1, 1985

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
	<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	<b>MOBILE HOME TEST GROUP (04/M00)</b>		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	<b>ELECTRICAL TEST GROUP (04/E00)</b>		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**HOLLYTEX CARPET MILLS**  
 505 N.E. Seventh Street, Anadarko, OK 73005  
 Chet Link Phone: 405-247-6641

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C02	AATCC 8	Colorfastness to Crocking
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

**KNAUF FIBER GLASS RESEARCH LABORATORIES**  
 240 Elizabeth Street, Shelbyville, IN 46176  
 Kerry VanArsdel Phone: 317-398-4434

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

**WARNOCK HERSEY INTERNATIONAL, INC.**  
 8612 Fairway Place, Middleton, WI 53562  
 James J. Husom Phone: 608-836-4400

Accreditation Renewal Date: January 1, 1985

Section of UL 737      Section of UL 1482

<i>NVLAP Code</i>	<i>Short Title</i>	5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<b>MOBILE HOME TEST GROUP (04/M00)</b>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

<i>NVLAP Code</i>	<i>Short Title</i>		
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0250

**W. R. GRACE & COMPANY**  
**THERMAL PRODUCTS LABORATORY**  
 62 Whittemore Avenue, Cambridge, MA 02140  
 Gregory Derderian Phone: 617-876-1400

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D09	ASTM C303	Density; Preformed block insulation
01/D14	ASTM C520	Density; Granular loose-fill
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat

## Section 2

### TEST METHODS AND THE LABORATORIES ACCREDITED FOR EACH TEST METHOD

The following index provides a cross reference of accredited laboratories with test methods under each LAP. Each laboratory code number under each test method refers to the laboratory in Section 1 of this Directory for which the name, address, primary contact, phone number, and list of accredited test methods are identified.

#### INSULATION LAP—CORROSIVENESS TEST METHODS

- 01/C01 ASTM C739—Corrosiveness; Cellulosic fiber-loose fill  
(para. 10.7 in 80 version)  
0109, 0116
- 01/C02 HH-I-515—Corrosiveness; Cellulosic fiber-loose-fill  
(para. 4.8.5 in D version, Amendment 1)  
0101, 0106, 0107, 0109, 0115, 0116, 0120
- 01/C03 California Energy Commission tests for insulating materials:  
Corrosiveness - Mineral fiber blankets and loose-fill  
0101, 0109

#### INSULATION LAP—DIMENSION, STABILITY, AND DENSITY TEST METHODS

- 01/D01 ASTM C136—Sieve or screen analysis  
0101, 0116
- 01/D02 ASTM C167—Thickness and density; Blanket and batt  
0101, 0104, 0109, 0116, 0123, 0124, 0126, 0127, 0128, 0129, 0130,  
0248
- 01/D03 ASTM C209—Thickness; Board-cellulosic fiber (para. 6 in 72 version)  
0109, 0111, 0116, 0123
- 01/D04 ASTM C209—Water absorption, 2 hour; Board-cellulosic fiber (para. 13 in 72 version)  
0109, 0111, 0116, 0123
- 01/D05 ASTM C209—Water absorption, 24 hour; Board-cellulosic fiber  
(para. 13 in 72 version) by D1037 (para. 100-106 in 78 version)  
0109, 0111, 0116, 0123
- 01/D06 ASTM C209—Linear expansion; Board-cellulosic fiber  
(para. 14 in 72 version) by D1037 (para. 107-110 in 72 version)  
0109, 0111, 0116, 0123
- 01/D07 ASTM C272—Water absorption; Core materials  
0109, 0111
- 01/D08 ASTM C302—Density; Preformed pipe insulation  
0101, 0109, 0116, 0123, 0142, 0248
- 01/D09 ASTM C303—Density; Preformed block insulation  
0101, 0109, 0111, 0116, 0123, 0124, 0126, 0127, 0129, 0130, 0248,  
0250
- 01/D11 ASTM C356—Linear shrinkage; Soaking heat; Preformed high temperature insulation  
0109, 0123, 0248

- 01/D12 ASTM C411—Hot-surface performance; High temperature insulation  
0109, 0123, 0248
- 01/D13 ASTM C519—Density; Loose-fill (fibrous)  
0101, 0104, 0109, 0116, 0117, 0123, 0248, 0250
- 01/D14 ASTM C520—Density; Granular loose-fill  
0116
- 01/D15 ASTM D756—Weight and shape changes; Accelerated service (proc. A); Plastics  
0109, 0210
- 01/D16 ASTM D756—Weight and shape changes; Accelerated service (proc. B); Plastics  
0109, 0210
- 01/D17 ASTM D756—Weight and shape changes; Accelerated service (proc. E); Plastics  
0109, 0210
- 01/D18 ASTM D1622—Apparent density; Rigid cellular plastics  
0103, 0107, 0109, 0116, 0171, 0210, 0218

**INSULATION LAP—VAPOR BARRIER PROPERTIES TEST METHODS**

- 01/D19 ASTM D2126—Response to thermal and humid aging (proc. B); Rigid cellular plastics  
0103, 0109, 0171
- 01/D20 ASTM D2126—Response to thermal and humid aging (proc. D); Rigid cellular plastics  
0109, 0111, 0210
- 01/D21 ASTM D2126—Response to thermal and humid aging (proc. E); Rigid cellular plastics  
0103, 0109, 0111, 0171, 0218
- 01/D22 ASTM D2126—Response to thermal and humid aging (proc. F); Rigid cellular plastics  
0109, 0210
- 01/D23 ASTM D2842—Water absorption; Rigid cellular plastics  
0103, 0109, 0171, 0210
- 01/D24 ASTM C739—Moisture absorption; Cellulosic fiber-loose-fill (para. 10.5 in 80 version)  
0109, 0116
- 01/D25 HH-I-515—Moisture absorption; Cellulosic fiber-loose-fill  
(para. 4.8.3 in D version, Amendment 1)  
0101, 0107, 0109, 0115, 0116, 0120
- 01/D26 HH-I-515—Settled density; Cellulosic fiber-loose-fill  
(para. 4.8.1 in D version, Amendment 1)  
0101, 0107, 0109, 0115, 0116, 0117, 0120
- 01/D27 ASTM D2126—Response to thermal and humid aging (proc. C); Rigid cellular plastics  
0103, 0109, 0171, 0210, 0218
- 01/D28 ASTM D2126—Response to thermal and humid aging (proc. G); Rigid cellular plastics  
0109, 0171, 0210
- 01/D29 California Energy Commission tests for insulating materials: Installed compressed thickness  
0109

**INSULATION LAP—FIRE PROPERTIES TEST METHODS**

- 01/F01 TAPPI T461—Flame Resistance; Paper and paperboard  
0101, 0109, 0123

- 01/F02 ASTM E84—Surface burning characteristics; Building materials  
0105, 0106, 0109, 0111, 0115, 0116, 0117, 0123, 0151
- 01/F05 ASTM E136—Behavior of Materials in a vertical tube furnace  
0101, 0106, 0109, 0123, 0142
- 01/F06 ASTM C739—Flame resistance permanency; (para. 10.4 in 80 version)  
Cellulosic fiber (loose-fill)  
0116
- 01/F07 HH-I-515—Critical radiant flux; Radiant Panel-cellulosic fiber,  
loose-fill (para. 4.8.7 in D version, Amendment 1)  
0101, 0105, 0106, 0109, 0115, 0116, 0117, 0120, 0151
- 01/F08 HH-I-515—Smoldering combustion-cellulosic fiber, loose-fill (para.  
4.8.8 in D version Amendment 1)  
0101, 0107, 0109, 0115, 0116, 0117, 0120

#### INSULATION LAP—STRENGTH PROPERTIES TEST METHODS

- 01/S01 ASTM C165—Compressive properties; Thermal insulation (proc. A)  
0101, 0109, 0123, 0248
- 01/S02 ASTM C203—Breaking load/flexural strength; Preformed block insulation  
0103, 0109, 0111, 0116, 0123
- 01/S03 ASTM C209—Transverse strength; Board-cellulosic fiber (para. 9 in 72 version)  
0109, 0111, 0116, 0123
- 01/S04 ASTM C209—Deflection at specified load; Board-cellulosic fiber  
(para. 10 in 72 version)  
0109, 0111, 0116, 0123
- 01/S05 ASTM C209—Tensile strength; Parallel to surface; Board-cellulosic  
fiber (para. 11 in 72 version)  
0109, 0111, 0116, 0123
- 01/S06 ASTM C209—Tensile strength; Perpendicular to surface (para. 12 in 72 version)  
0109, 0111, 0116, 0123
- 01/S07 ASTM C273—Shear test; Sandwich construction  
0109, 0171
- 01/S08 ASTM C446—Breaking load/modulus of rupture; Preformed pipe insulation  
0101, 0109, 0116, 0123
- 01/S09 ASTM D781—Puncture test; Paperboard and fiberboard  
0101, 0109, 0123
- 01/S10 ASTM D828—Tensile breaking strength; Paper and paperboard  
0101, 0109, 0123
- 01/S11 ASTM D1621—Compressive properties; Rigid cellular plastics (proc. A-Crosshead)  
0103, 0109, 0111, 0116, 0171, 0210, 0218
- 01/S12 California Energy Commission tests for insulating materials:  
Bond strength of spray applied cellulose  
0101
- 01/S13 California Energy Commission tests for insulating materials:  
Bond deflection of spray applied cellulose
- 01/S14 California Energy Commission tests for insulating materials:  
Air erosion of spray applied cellulose

## INSULATION LAP—THERMAL PROPERTIES TEST METHODS

- 01/T01 ASTM C177—Thermal transmission properties; Low-temperature guarded hot plate  
0101, 0109, 0111, 0113, 0121, 0123, 0142, 0185, 0248
- 01/T04 ASTM C236—Thermal conductance; Guarded hot box  
0101, 0102, 0109, 0111, 0113, 0121, 0123, 0142, 0188, 0226, 0250
- 01/T05 ASTM C335—Thermal conductivity; Pipe insulation  
0101, 0109, 0111, 0113, 0123, 0185, 0210, 0248
- 01/T06 ASTM C518—Thermal transmission properties; Heat flow meter  
0101, 0102, 0103, 0104, 0105, 0109, 0111, 0113, 0116, 0120, 0121,  
0123, 0124, 0125, 0126, 0127, 0128, 0129, 0130, 0171, 0210, 0216,  
0218, 0248, 0250
- 01/T09 ASTM C653—Thermal resistance (Rec. Practice); Blanket (mineral fiber)  
0101, 0104, 0109, 0116, 0123, 0248
- 01/T10 ASTM C687—Thermal resistance (Rec. Practice); Loose-fill (fibrous)  
0101, 0104, 0109, 0116, 0123, 0248

## INSULATION LAP—OTHER TEST METHODS

- 01/V02 TAPPI T419—Starch in paper; Qualitative test  
0109, 0116
- 01/V03 ASTM D2020—Mildew (fungus) resistance; Paper and paperboard  
0109, 0116
- 01/V04 ASTM E96—Water vapor transmission; Thin sheets (proc. A)  
0101, 0103, 0106, 0107, 0109, 0111, 0123, 0210
- 01/V05 HH-I-515—Fungus; Cellulosic fiber-loose fill (para. 4.8.6 in D version, Amendment 1)  
0107, 0109, 0116
- 01/V06 HH-I-515—Starch; Cellulosic fiber-loose fill (para. 4.8.9 in D version, Amendment 1)  
0107, 0109, 0116

## CONCRETE LAP

- 02/M01 ASTM C31—Making and Curing Concrete Test Specimens in the Field
- 02/M03 ASTM C172—Sampling Fresh Concrete
- 02/P01 ASTM C143—Slump of Portland Cement Concrete
- 02/W01 ASTM C138—Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
- 02/A01 ASTM C231—Air Content of Freshly Mixed Concrete by the Pressure Method  
0133
- 02/M01 ASTM C31—Making and Curing Concrete Test Specimens in the Field
- 02/M03 ASTM C172—Sampling Fresh Concrete
- 02/P01 ASTM C143—Slump of Portland Cement Concrete
- 02/W01 ASTM C138—Unit Weight, Yield, and Air Content of Concrete (gravimetric)
- 02/A01 ASTM C231—Air Content of Freshly Mixed Concrete by the Pressure Method
- 02/S01 ASTM C39—Compressive Strength of Cylindrical Concrete Specimens  
0131, 0132, 0135, 0136, 0137, 0141, 0143, 0146, 0154, 0161,  
0164, 0165, 0173, 0176, 0177, 0183, 0188, 0189, 0191, 0192, 0195,  
0196, 0198, 0201, 0203, 0205, 0206, 0208, 0214, 0215, 0230, 0231,  
0232, 0233, 0237, 0238
- 02/A02 ASTM C173—Air Content of Freshly Mixed Concrete by the Volumetric Method  
0131, 0132, 0133, 0135, 0137, 0141, 0143, 0146, 0154, 0161,  
0165, 0173, 0176, 0177, 0183, 0188, 0191, 0192, 0195, 0196, 0198,  
0201, 0203, 0205, 0206, 0208, 0214, 0215, 0230, 0232, 0237

## CARPET LAP

- 03/C01 AATCC 16E—Colorfastness to Light (Xenon Arc)  
0105, 0106, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178,  
0187, 0190, 0193, 0197, 0221
- 03/C02 AATCC 8—Colorfastness to Crocking  
0105, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187,  
0190, 0193, 0197, 0221, 0247
- 03/D01 ASTM D418—Pile Yarn Floor Covering Construction Pile Weight-Uncoated (Section 8)  
Pile Weight - Coated (Section 9) Pile Thickness - (Section 10 & 11) Tuft Height - (Section 13)  
0105, 0106, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178,  
0187, 0190, 0193, 0197, 0221
- 03/D02 DDD-C-95A—Shrinkage  
0105, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187,  
0190, 0193, 0197, 0221
- 03/S01 ASTM D1335—Tuft Bind of Floor Coverings  
Federal Test Method Standard 191-5100 Breaking Strength  
Federal Test Method Standard 191-5950 Delamination  
0105, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187,  
0190, 0193, 0197, 0220, 0221, 0247
- 03/E01 AATCC 134/CRI 102—Electrostatic Propensity of Carpets  
0108, 0166, 0178, 0202
- 03/F01 ASTM E84—Surface Flammability (Carpet)  
0105, 0114, 0115, 0116, 0120, 0151,
- 03/F02 UL 992—Surface Flammability  
0114, 0116
- 03/F03 DoC FF1-70—Methenamine Pill Test  
0105, 0106, 0108, 0114, 0116, 0120, 0139, 0149, 0156, 0160, 0163,  
0166, 0178, 0187, 0190, 0193, 0197, 0220, 0221, 0243, 0247
- 03/F04 ASTM E648—Radiant Panel (Carpet)  
0105, 0106, 0108, 0114, 0115, 0116, 0120, 0151, 0166, 0178, 0220,  
0221
- 03/B01 UM 44C Addendum 3—Attached Cushion Tests  
0156, 0178
- 03/B02 UM 44C Addenda 2 and 3—Attached Cushion Tests  
0105, 0108, 0120, 0139, 0163, 0166

## STOVE LAP—PHYSICAL/FIRE TEST GROUP

- 04/F01 Test Installation  
04/F02 Temperature Measurement  
04/F04 Radiant Fire Test  
04/F05 Coal Fire Test  
04/F06 Brand Fire Test  
04/F07 Flash Fire Test  
04/F08 Strength Tests  
04/F09 Stability Test  
04/F10 Glazing Test

## STOVE LAP—MOBILE HOME TEST GROUP

04/M01 Test Installation  
04/M02 Toxic Gas  
04/M03 Drop Test

## STOVE LAP—ELECTRICAL TEST GROUP

04/E01 Test Voltages  
04/E02 Temperature Measurements, Electrical Components  
04/E03 Input Test  
04/E04 Temperature Test, Electrical Components  
04/E05 Leakage Current  
04/E06 Dielectric Withstand  
04/E07 Locked Rotor (Stalled Motor) Temperature  
04/E08 Power Cord Strain Relief  
0116, 0117, 0223, 0225, 0235, 0240, 0244, 0245, 0246, 0249

## ACOUSTICS LAP—PRECISION TEST METHODS

08/P01 ASTM C367-78—Strength Properties, Prefabricated Architectural Acoustical Materials  
0109

08/P02 ASTM C384-77—Impedance and Absorption of Acoustical Materials  
0109, 0119, 0123

08/P03 ASTM C423-81—Sound Absorption and Sound Absorption Coefficients  
0109, 0111, 0119, 0123, 0227, 0228, 0229

08/P04 ASTM C522-80—Airflow Resistance of Acoustical Materials  
0109, 0123

08/P05 ASTM C523-68 (81)—Light Reflectance of Acoustical Materials  
0109, 0227, 0229

08/P06 ASTM E90-82—Airborne Sound Transmission Loss of Building Partitions  
0109, 0119, 0123, 0227, 0229

08/P07 ASTM E492-82—Impact Sound Transmission Through Floor-Ceiling Assemblies  
0227, 0228

08/P08 ASTM E596-78—Noise Reduction of Sound-Isolating Enclosures

08/P09 ASTM E756-82—Vibration Damping Properties of Materials

08/P10 ANSI S1.31-80—Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms  
0109, 0227

08/P11 ANSI S1.31-80—Sound Power Levels, Broad-Band Noise Sources in  
Reverberation Rooms (direct method only)  
0119

08/P12 ANSI S1.31-80—Sound Power Levels, Broad-Band Noise Sources in  
Reverberation Rooms (comparison method only)

08/P13 ANSI S1.32-80—Sound Power Levels, Discrete-Frequency and Narrow-Band  
Noise Sources in Reverberation Rooms  
0109

08/P14 ANSI S1.35-79—Sound Power Levels, Noise Sources in Anechoic and Hemi-Anechoic Rooms

08/P15 ANSI S1.35-79—Sound Power Levels, Noise Sources in Anechoic Rooms  
(anechoic room method only)

08/P16 ANSI S1.35-79—Sound Power Levels, Noise Sources in Hemi-Anechoic Rooms  
(hemi-anechoic room method only)

- 08/P17 ISO 3741-75—Sound Power Levels, Broad-Band Sources in Reverberation Rooms  
0227
- 08/P18 ISO 3741-75—Sound Power Levels, Broad-band Sources in Reverberation Rooms
- 08/P19 ISO 3741-75—Sound Power Levels, Broad-band Sources in Reverberation  
Rooms (comparison method only)
- 08/P20 ISO 3742-75—Sound Power Levels, Discrete-Frequency and Narrow-Band  
Sources in Reverberation Rooms
- 08/P21 ISO 3745-77—Sound Power Levels, of Noise Sources in Anechoic and Semi-Anechoic Rooms
- 08/P22 ISO 3745-77—Sound Power Levels of Noise Sources in Anechoic Rooms  
(anechoic room method only)
- 08/P23 ISO 3745-77—Sound Power Levels of Noise Sources in Semi-Anechoic  
Rooms (semi-anechoic room method only)

#### ACOUSTICS LAP—ENGINEERING TEST METHODS

- 08/E01 ANSI B71.1-80 (para. 9 and 21)—Sound Level Tests; Power Lawn Mowers,  
Lawn and Garden Tractors and Lawn Tractors  
0227
- 08/E02 ANSI S1.29-79—Measurement of Noise Emitted by Computer and Business Equipment
- 08/E03 ANSI S1.34-80—Sound Power Levels, Noise Sources over a Reflecting Plane
- 08/E04 ANSI S3.19-75—Noise Protection, Hearing Protectors and Earmuffs  
0119
- 08/E05 ANSI S5.1-71—Measurement of Sound from Pneumatic Equipment
- 08/E06 ANSI S5.1-71—Measurement of Sound from Pneumatic Equipment (small machines only)
- 08/E07 ANSI S5.1-71—Measurement of Sound from Pneumatic Equipment (portable  
compressors and large items of pneumatic plant only)
- 08/E08 ANSI S5.1-71—Measurement of Sound from Pneumatic Equipment  
(stationary plant equipment only)
- 08/E09 ISO 362-81—Noise Emitted by Accelerating Road Vehicles
- 08/E10 ISO 512-79—Sound Pressure Levels, Vehicle Signaling Devices
- 08/E11 ISO 3744-81—Sound Power Levels of Noise Sources Over a Reflecting Plane
- 08/E12 ISO 5130-82—Noise Emitted by Stationary Road Vehicles
- 08/E13 SAE J192a-75—Exterior Sound Level of Snowmobiles  
0119
- 08/E14 SAE J1161-76—Sound Level Measurement Procedure for Snow Vehicles  
0119
- 08/E15 Title 40, CFR, Part 205—Transportation Equipment Noise Emission Measurements
- 08/E16 Title 40, CFR, Part 205—Transportation Equipment Noise Emission  
Measurements (Subpart B only)
- 08/E17 Title 40, CFR, Part 205—Transportation Equipment Noise Emission  
Measurements (Subpart D only)
- 08/E18 Title 40, CFR, Part 205—Transportation Equipment Noise Emission  
Measurements (Subpart E only)
- 08/E19 Title 40, CFR, Part 205—Transportation Equipment Noise Emission  
Measurements (Subpart F only)
- 08/E20 AMCA Test Code 300-1967—Test Code for Sound Ratings
- 08/E21 AMA-1-II-67—Ceiling Sound Transmission Test by Two-Room Method  
0109, 0111, 0119, 0229

- 08/E22 EEC 81/334 (Annex I, para. 5.2)—Sound Levels of Motor Vehicles
- 08/E23 EEC 70/388—Type Approval of an Audible Warning Device (Annex I, paras. 1.2.1, 1.2.2, 1.2.3, and 2)
- 08/E24 TRIAS 20-1980—Noise Test Procedures for Motor Vehicles
- 08/E25 TRIAS 21-1979—Horn Sound Level Test Procedure for Motor Vehicles
- 08/E26 ECE Regulation No. 28—Sound Levels of Vehicle Audible Warning Devices
- 08/E27 ECE Regulation No. 51-1983 (Annex 3)—Approval for Motor Vehicle Equipment and Parts

## Section 3

### ACCREDITED LABORATORIES BY STATE

The following index provides a cross reference of accredited laboratories by State. Each NVLAP assigned code number after each State refers to a laboratory listed in Section 1 of this Directory for which the name, address, phone number, and list of accredited test methods are identified.

ARIZONA	0132, 0162
CALIFORNIA	0106, 0117, 0124, 0142, 0192, 0203
COLORADO	0123, 0135, 0215
CONNECTICUT	0171
FLORIDA	0111, 0231
GEORGIA	0108, 0120, 0125, 0139, 0149, 0156, 0163, 0166, 0190, 0193, 0197, 0220, 0221, 0243
ILLINOIS	0116, 0137, 0183, 0191, 0210, 0216, 0226, 0227
INDIANA	0248
KANSAS	0126, 0133, 0232
MASSACHUSETTS	0113, 0115, 0176, 0225, 0250
MARYLAND	0104, 0141, 0154
MAINE	0121
MINNESOTA	0119, 0185, 0188
MISSOURI	0102, 0164
NORTH CAROLINA	0173
NEW JERSEY	0105, 0127, 0218
NEW YORK	0128, 0177, 0214, 0229
OHIO	0103, 0109, 0129, 0131, 0161, 0165, 0206, 0238
OKLAHOMA	0107, 0198, 0247
OREGON	0240, 0244, 0246
PENNSYLVANIA	0101, 0146, 0187, 0201, 0228, 0237
RHODE ISLAND	0245
SOUTH CAROLINA	0178
TEXAS	0114, 0130, 0143, 0160, 0196, 0208
UTAH	0195
VIRGINIA	0151, 0230, 0233
WASHINGTON	0235
WISCONSIN	0189, 0223, 0239, 0249
WEST VIRGINIA	0136, 0205

## Section 4

### NVLAP CODE NUMBERS OF ACCREDITED LABORATORIES BY LAP

The following index provides a cross reference of accredited laboratories with the code number assigned by NVLAP for each laboratory. Laboratories are listed in Section 1 of this Directory in ascending code number order.

#### INSULATION LAP

0101	CertainTeed Corporation, Insulation Group, R & D Lab
0102	Butler Manufacturing Company, Research Center
0103	Dow Chemical USA, Foam Product, Research, Product Evaluation
0104	NAHB Research Foundation, Inc.
0105	United States Testing Co., Inc.
0106	United States Testing Co., Inc., California Division
0107	United States Testing Co., Inc., Tulsa Division
0109	Owens-Corning Fiberglas Corp., Technical Center Laboratory
0111	Jim Walter Research Corp.
0113	Dynatech R/D Company, Thermophysics Laboratory
0115	Factory Mutual Research Corp.
0116	Underwriters Laboratories Inc.
0117	Underwriters Laboratories Inc.
0120	Commercial Testing Company
0121	Sparrell Engineering Research Corporation
0123	Manville Corporation, R & D Center
0124	Owens-Corning Fiberglas Corp., Santa Clara CA Plant Laboratory
0125	Owens-Corning Fiberglas Corp., Fairburn GA Plant Laboratory
0126	Owens-Corning Fiberglas Corp., Kansas City KS Plant Laboratory
0127	Owens-Corning Fiberglas Corp., Barrington NJ Plant Laboratory
0128	Owens-Corning Fiberglas Corp., Delmar NY Plant Laboratory
0129	Owens-Corning Fiberglas Corp., Newark OH Plant Laboratory
0130	Owens-Corning Fiberglas Corp., Waxahachie TX Plant Laboratory
0142	Geoscience Ltd.
0151	Hardwood Plywood Manufacturers Association
0171	Olin Corporation, Physical Testing Lab
0185	Lander Thermal Conductivity Laboratory
0188	Twin City Testing and Engineering Laboratory, Inc.
0210	Insta-Foam Products, Inc.
0216	United States Gypsum Company, Research Center
0218	Apache Building Products Co.
0226	Wiss, Janney, Elstner and, Associates, Inc.
0248	Knauf Fiber Glass Research Laboratories
0250	W. R. Grace Thermal Measurements Laboratory

#### CARPET LAP

0105	United States Testing Co., Inc.
0106	United States Testing Co., Inc., California Division
0108	Certified Testing Labs, Inc.
0114	Southwest Research Institute, Dept of Fire Technology
0115	Factory Mutual Research Corp.
0116	Underwriters Laboratories Inc.
0120	Commercial Testing Company
0139	American Carpet Labs, Inc.
0149	E & B Carpet Mills
0151	Hardwood Plywood Manufacturers Association
0156	Bigelow-Sanford, Inc., Georgia Rug Mill

0160 Chisholm Trail Testing and Engineering Company, Inc.  
0163 Galaxy Carpet Mills Inc., Galaxy Testing Laboratory  
0166 Independent Textile Testing Service, Inc.  
0178 Bigelow-Sanford, Inc., Technical Services  
0187 C. H. Masland and Sons  
0190 Coronet Carpets, Coronet Industries  
0193 Shaw Industries, Inc., QC Lab  
0197 World Carpets, Quality Control Physical Testing  
0220 Stratton Laboratories  
0221 Salem Carpet Laboratory  
0243 Custom Coating, Inc.  
0247 Hollytex Carpet Mills

#### CONCRETE LAP

0131 The H. C. Nutting Company  
0132 The Tanner Companies, United Metro Div. Laboratory  
0133 The Walt Keeler Company, Inc.  
0135 Aguirre Engineers, Inc.  
0136 Contractors Supply Corporation of West Virginia, Inc.  
0137 Construction Technology Labs, A Div of Portland Cement Assoc  
0141 Genstar Stone Products Company, Quality Control Laboratory  
0143 Kelso Industries, Inc., Quality Control Laboratory  
0146 American Testing Laboratories, Inc.  
0154 The Arundel Corporation, Greenspring Laboratory  
0161 Engineering Testing Laboratory, City of Akron  
0162 Western Technologies, Inc.  
0164 General Testing Laboratories, Inc.  
0165 Herron Consultants, Inc.  
0173 STS Consultants, Ltd., Raleigh NC Office  
0176 W. R. Grace & Company, Construction Products Division  
0177 Atlantic Testing Labs, Ltd., Cicero Division  
0183 A & H/Flood Engineering  
0188 Twin City Testing and Engineering Laboratory, Inc.  
0189 Central Ready-Mixed Concrete, Research & Technical Center  
0191 STS Consultants, Ltd., Northbrook IL Office  
0192 Smith-Emery Company  
0195 Garco Testing Laboratories  
0196 Texas Testing Laboratories, Inc.  
0198 Standard Testing and Engineering Company  
0201 Pittsburgh Testing Laboratory, Pittsburgh, PA  
0203 Conrock Co. Testing Laboratory  
0205 West Virginia Dept of Highways, Materials Control, Soil & Testing  
0206 R. W. Sidley, Inc., Quality Control Laboratory  
0208 Gulf Coast Testing Laboratory  
0214 Parratt-Wolff, Inc.  
0215 Construction Materials Consultants, Inc.  
0230 Virginia Concrete Laboratory  
0231 Eastcoast Testing & Engineering, Inc.  
0232 Ritchie Laboratories  
0233 STS Consultants, Ltd., Fairfax VA Office  
0237 Pittsburgh Testing Laboratory, Syracuse, NY  
0238 Toledo Testing Laboratory, Inc.

#### STOVE LAP

0116 Underwriters Laboratories Inc., Northbrook, IL  
0117 Underwriters Laboratories Inc., Santa Clara, CA  
0223 PFS Corporation

- 0225 Arnold Greene Testing Laboratories, Inc.
- 0235 Pacific Inspection and Research Laboratory, Inc.
- 0240 OMNI Environmental Services, Solid Fuel Testing Laboratory
- 0244 Northwest Testing Laboratories, Inc.
- 0245 R.F. Geisser & Associates, Inc.
- 0246 Stove Testing Laboratory, Inc.
- 0249 Warnock Hersey International, Inc.

#### ACOUSTICS LAP

- 0109 Owens-Corning Fiberglas Corp., Technical Center Laboratory
- 0111 Jim Walter Research Corp.
- 0119 INTEST Laboratories, Inc.
- 0123 Manville Corporation, R & D Center
- 0227 Riverbank Acoustical Laboratory of IITRI
- 0228 Armstrong World Industries, Technical Center, Acoustics Laboratory
- 0229 Gold Bond Building Products, A National Gypsum Division

## Section 5

### ACCREDITED LABORATORIES BY COMPANY NAME AND NVLAP CODE NUMBERS

The following index provides a cross reference of accredited laboratories by NVLAP assigned laboratory code number. Laboratories are listed in ascending laboratory code number order in Section 1 of this Directory where more complete information is provided on names, addresses, and test methods accredited.

LABORATORY NAME	LAB CODE NUMBER
A & H/Flood Engineering.....	0183
Aguirre Engineers, Inc.....	0135
American Carpet Laboratories, Inc.....	0139
American Testing Laboratories, Inc.....	0146
Apache Building Products Co.....	0218
Armstrong World Industries, Tech. Center, Acoustics Laboratory.....	0228
Arnold Greene Testing Laboratories, Inc.....	0225
The Arundel Corporation, Greenspring Laboratory.....	0154
Atlantic Testing Labs, Ltd., Cicero Division.....	0177
Bigelow-Sanford, Inc., Technical Services.....	0178
Bigelow-Sanford, Georgia Rug Mill.....	0156
Butler Manufacturing Company, Research Center.....	0102
Central Ready-Mixed Concrete, Research & Technical Center.....	0189
CertainTeed Corporation, Insulation Group, R & D Laboratory.....	0101
Certified Testing Labs, Inc.....	0108
Chisholm Trail Testing and Engineering Company, Inc.....	0160
Commercial Testing Company.....	0120
Conrock Co.-Laboratory.....	0203
Construction Materials Consultants, Inc.....	0215
Construction Technology Lab, A Div of Portland Cement Assoc.....	0137
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