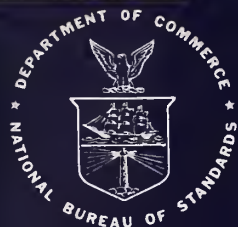




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NBS

PUBLICATIONS

**NBS SPECIAL PUBLICATION 654**

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

NVLAP

**Sixth Annual Report
and Directory of
Accredited Laboratories**

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No. 654

1983

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Sixth Annual Report and Directory of Accredited Laboratories

Wiley Hall

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



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

NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director

Issued September 1983

Library of Congress Catalog Card Number: 83-600576

National Bureau of Standards Special Publication 654
Natl. Bur. Stand. (U.S.), Spec. Publ. 654, 63 pages (Sept. 1983)
CODEN: XNBSAV

U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON: 1983

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402

Price \$4.50

(Add 25 percent for other than U.S. mailing)

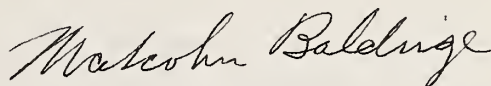
PREFACE

This is the sixth annual report of the Commerce Department's National Voluntary Laboratory Accreditation Program (NVLAP). It provides information for calendar year 1982 about the activities of the National Bureau of Standards (NBS) in conducting the program and identifies participating testing laboratories.

Upon request from a testing laboratory, NBS examines its professional and technical competence in specified areas of technology. Based on this assessment NBS accredits testing laboratories to perform tests in the areas of their established competence.

NVLAP benefits laboratories and their users. Laboratories are encouraged to raise their level of performance and receive recognition of their competence. Laboratory users are assured that laboratories have the personnel, equipment, procedures, and competence to provide reliable test data.

Through bilateral agreements between NBS and laboratory accreditation systems of other countries, NVLAP helps manufacturers who use accredited testing laboratories to obtain acceptance of their product overseas. This is important in countries that have governmental controls in their product distribution system.

A handwritten signature in cursive script, reading "Malcolm Baldrige".

Secretary of Commerce

NVLAP—82

SIXTH 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) began two new Laboratory Accreditation Programs (LAP) during 1982, one for solid fuel room heaters and one for acoustical testing services. During 1982, 7 laboratories were newly accredited and 92 laboratories renewed their accreditation. The distribution of laboratories included 33 under the LAP for thermal insulation materials (the "Insulation LAP"), 46 under the LAP for freshly mixed field concrete (the "Concrete LAP"), 23 under the LAP for carpet (the "Carpet LAP"), and 6 in the new LAP for solid fuel room heaters (the "Stove LAP"). Some laboratories are in more than one LAP. Twenty-one laboratories voluntarily terminated their accreditation during 1982. Sixty-two regularly scheduled on-site visits and four monitoring visits were conducted during the year.

Three new LAPs were under development during 1982 or were being considered for development to accredit:

- 1) Processors of personnel radiation dosimeters to serve the needs of the U.S. Nuclear Regulatory Commission and other Federal and State agencies;
- 2) Laboratories that test windows and doors (LAP requested by a private testing laboratory);
- 3) Laboratories that provide electromagnetic calibration services (LAP requested by an electronics manufacturer).

A total of \$741,000 was allocated for NVLAP activities for fiscal year 1982, no change from fiscal year 1981. A total of \$185,900 in fees was recovered in fiscal 1982 from laboratories seeking accreditation in order to offset the costs associated with their evaluation and accreditation. During the past year, the staffing level was equivalent to 11 full-time persons.

The National Laboratory Accreditation Advisory Committee was established by the Secretary of Commerce in August 1982 and met informally on December 3, 1982. The Committee's function is to advise and make recommendations to the Director of NBS to improve the effectiveness of NVLAP.

The attendees were particularly interested in reviewing revisions to the NVLAP procedures and criteria to be developed early in 1983. They supported international arrangements through the International Laboratory Accreditation Conference (ILAC) and the development of international agreements.

The need for coordination of accreditation activities at the national level was established at a workshop held at NBS in November, 1981. An organizational meeting was held in Washington, DC on September 17, 1982, to consider the formation of a quasipublic National Laboratory Accreditation Council (NLAC). Additional meetings are planned to see if a Council can be organized. The American National Standards Institute's (ANSI) Certification Committee on September 21, 1982, appointed a Task Group to study the possible participation of ANSI in the development of an NLAC.

Based on a Memorandum of Understanding signed by Dr. Ernest Ambler, Director of the National Bureau of Standards (NBS) and Mr. E. E. Bond, Chair of the National Association of Testing Authorities (NATA) of Australia effective in September, 1982, the results of testing laboratories accepted by these national systems will be reciprocally recognized. Additional bilateral agreements are being considered with laboratory accreditation systems in Canada, New Zealand, and the United Kingdom.

The Appendix to Part I of this report lists the major publications prepared by the NVLAP staff during 1982. Part II of this report is a directory of all laboratories accredited under NVLAP. The accredited laboratories are listed alphabetically, and are cross referenced by test method for each LAP and by State.

2. ESTABLISHED LABORATORY ACCREDITATION PROGRAMS

Accreditation Actions

NVLAP continued accreditation under the Insulation, Concrete, Carpet and Stove programs in

operation and in 1982 began operation of the Acoustical Testing Services LAP. Seven laboratories were newly accredited and 92 laboratories renewed their accreditation. An alphabetical listing of all accredited laboratories and the test methods for which each is accredited is provided in Part II, Section 1 of this report. Twenty-one laboratories voluntarily terminated their accreditation. At the end of the year, evaluations for initial accreditation of 13 new applicants were in progress.

Insulation LAP

The LAP for thermal insulation materials had 63 test methods for which accreditation could be sought. As of December 31, 1982, 33 laboratories were accredited to perform one or more of these test methods. Thirty regularly scheduled on-site visits and two monitoring visits to the laboratories were conducted during the year. The sixth and seventh rounds of proficiency testing for insulation test methods involving thermal conductivity, settled density, and flammability properties were conducted. Proficiency testing results are published in "NVLAP Tech Briefs" (see Appendix for publication dates).

Concrete LAP

Accreditation could be sought for up to seven test methods involving freshly mixed field concrete. The methods were arranged into two groups which address (1) field testing and (2) laboratory and field testing. In addition, a single optional test method could be requested with either of the two groups. As of the end of 1982, 46 laboratories were accredited under the Concrete LAP.

Seven regularly scheduled on-site visits and two monitoring visits to the laboratories were conducted during the year. The results of the within-laboratory proficiency program were published in a NVLAP Tech Brief. The first Tech Brief for the between-laboratory proficiency program will be published early in 1983.

Carpet LAP

The LAP for carpet has 12 test methods for which accreditation may be sought. As of December 31, 1982, 23 laboratories were accredited for one or more of these test methods. The Department of Housing and Urban Development (HUD) uses test results produced by these laboratories as part of its carpet certification program. Nineteen regularly scheduled on-site visits to the laboratories were conducted during the year. The fourth and fifth rounds of proficiency testing for carpet test methods, involving colorfastness, pile

weight, pile thickness, strength, and flammability properties, were completed. The summary of rounds 1, 2, 3, and 4 was published in a Tech Brief.

Stove LAP

The notice of formal establishment of a program for accrediting laboratories that test solid fuel room heaters was announced in the *Federal Register* on April 20, 1982 (47 FR 16823-16827). The LAP for solid fuel room heaters had 21 test methods for which accreditation could be sought. As of December 31, 1982, six laboratories were accredited to perform one or more of these test methods. Six regularly scheduled on-site visits to the laboratories were conducted during the year.

Acoustics LAP

The formal establishment of a program for laboratories that provide acoustical testing services was announced in the *Federal Register* on September 10, 1982 (47 FR 39874-39878). The LAP for acoustical testing services had 49 test methods for which accreditation could be sought. There were no laboratories accredited as of December 31, 1982; however, seven laboratories had applied for accreditation. On-site visits were planned for the laboratories early in 1983. The first accreditation actions are expected by March 1983.

3. LAPS UNDER DEVELOPMENT OR BEING CONSIDERED

Personnel Radiation Dosimetry Processors

A technical workshop was held at NBS on April 12 and 13, 1982, to establish a uniform basis for the determination of a processor's compliance with NVLAP criteria. From the information and suggestions received, a draft LAP Handbook was developed and circulated to the industry overview committee for comments. A request for proposal for procuring the services of a testing laboratory to conduct the proficiency testing for this LAP was distributed to potential contractors. The deadline for submittal of proposal was set for January 14, 1983, with the contract to be awarded in April 1983. In response to a request for nominations of individuals with professional credentials in personnel dosimetry processing to serve as NVLAP technical experts, 51 persons indicated interest in serving as assessors. An evaluation of the technical competence of the potential assessors for use by NVLAP was initiated. An announcement of the formal establishment of this LAP is expected during the second quarter of 1983.

A final finding of need to establish a LAP for testing laboratories that provide electromagnetic calibration services was published in the *Federal Register* on January 14, 1982 (47 FR 2146-2149). A public workshop to discuss the technical requirements for the LAP was held at NBS, Boulder, CO on July 1-2, 1982. A draft Handbook developed as a result of the workshop will be completed and distributed during the second quarter of 1983 to interested applicants seeking accreditation for the LAP. The details for the proficiency testing and the relationship of a Measurement Assurance Program (MAP) were still to be developed. A notice announcing the formal establishment of this LAP is expected in the third quarter of 1983.

Windows and Doors

On January 21, 1982, a *Federal Register* notice (47 FR 3025-3026) announced a request from HUD to establish a LAP, under NVLAP procedures for other Federal agencies (15 CFR Part 7b), for testing laboratories that test windows and doors. On May 28, 1982 *Federal Register* notice (47 FR 23509-23510) announced the decision of HUD to withdraw the request to allow other interested parties to act as proponents of the proposed program.

NBS received a letter from a private testing laboratory requesting that NBS, under the NVLAP "for everyone" (15 CFR, Part 7a), publish a preliminary finding of need to accredit laboratories that test window and door products. A Preliminary Finding of Need to Accredit Laboratories That Test Windows and Door Products was published in the *Federal Register* on August 24, 1982 (47 FR 36875-36878). The deadline for submission of comments was October 25, 1982. An analysis of the comments was initiated. A decision on whether to proceed or withdraw the request for the LAP is anticipated during the first quarter of 1983.

4. 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.

For fiscal year 1982, beginning October 1, 1981, \$741,000 was allocated for NVLAP activities. For fiscal year 1983, beginning October 1, 1982, \$698,000 was allocated. During the past year the staffing level was equivalent to 11 full-time persons. A total of \$185,900 in fees was recovered in fiscal year 1982 from laboratories seeking accreditation in order to offset the costs associated with their evaluation and accreditation.

National Laboratory Accreditation Advisory Committee

The Secretary of Commerce announced in the *Federal Register* on August 3, 1982 (47 FR 33529) the establishment of the National Laboratory Accreditation Advisory Committee (NLAAC). The Committee's charter was also approved.

The Committee's function is to make recommendations to the Director of NBS on the following issues:

- 1) Ways to simplify and clarify the NVLAP procedures in order to reduce costs to the testing laboratories;
- 2) Informing NBS of the technical requirements of testing laboratories;
- 3) Evaluating the interaction of other laboratory accreditation systems with NVLAP;
- 4) Reviewing the development of international accreditation activities and assessing the impact of accreditation within the United States; and
- 5) Other issues which the Committee or other interested persons recommend to improve the efficiency of the NVLAP operations.

The Committee consists of approximately 24 members: one-third from Federal, State and local governments; one-third from testing laboratories, and one-third from users and beneficiaries of testing laboratories.

At year's end NBS had not yet received formal clearance for all of the nominees to the Committee. However, there were a number of important items relative to the operation of NVLAP which needed advice from a panel of experts. Therefore, an informal meeting of NLAAC was held on December 3, 1982, at NBS. The meeting was open to the public. In attendance were 14 of the Committee nominees and 17 other interested persons.

The agenda for the meeting, published with the announcement of the meeting in the *Federal Register* on November 12, 1982 (47 FR 51177), is shown below:

Agenda: Issues discussed at the meeting include:

- 1) Consideration of NVLAP accreditation criteria relative to other accreditation

criteria (i.e., ISO Guide 25);

- 2) Simplification of operating procedures;
- 3) Review of bilateral agreements;
- 4) Review and evaluation of program goals for FY 83;
- 5) Implications of freedom of information regarding proficiency data;
- 6) Questions concerning conflict of interest of assessors;
- 7) Consideration of the cost for laboratories in more than one LAP; and,
- 8) Programmatic alternatives to reduce NVLAP operating costs.

An additional issue was submitted by an accredited testing laboratory for consideration of the Committee. The issue concerned the need for users of accredited laboratories to know if a specific laboratory is "independent" or "corporate." The laboratory submitted, for comments, suggestions for defining an "independent" testing laboratory.

The committee members were asked to render a specific position by consensus of the group on two issues concerning the possible conflict-of-interest of Technical Experts (Agenda Item 6).

The two issues and the committee's votes were:

(1) Is it a conflict-of-interest to have an employee of a HUD approved certifier of carpet serve as a NVLAP on-site assessor of carpet test laboratories?

Vote: The consensus of the group was that there should be no problem with conflict-of-interest in this case. There was also agreement of the group that each conflict-of-interest case should be judged individually as it arises.

(2) Does NVLAP have special considerations to watch for if NVLAP uses on-site assessors whose time is contributed either personally or by their companies? NVLAP would reimburse them for travel and expenses.

Vote: The consensus of the group was that NVLAP should consider the use of contributed experts to perform the on-site assessments.

There were discussions and comments by the attendees on each of the agenda issues.

National Laboratory Accreditation Council (NLAC)

NBS Special Publication 632, "Laboratory Accreditation: Future Directions in the United States," summarizing a workshop held at NBS in November 1981, concludes that the consensus of participants wanted more coordination of accreditation activities at the national level. One suggestion on how to accomplish this was to form a quasi-public NLAC. The objectives of the council, to be managed by the private sector, would be as follows:

- Provide forums for written and oral exchange of information on all levels of accreditation

in the United States;

- Develop criteria for comparing or evaluating laboratory accreditation systems;
- Encourage the recognition of laboratories among laboratory accreditation systems;
- Encourage use of existing laboratory accreditation systems where new needs arise;
- Foster consolidation of existing laboratory accreditation systems; and,
- Develop a basis for reciprocal recognition of laboratories among national and international systems.

An organizational meeting of a proposed NLAC was held in Washington, DC on September 17, 1982. There were 44 persons in attendance at this meeting, 12 from Federal, State or local government, and 32 from the private sector. Additional meetings are planned.

At a meeting of the ANSI Certification Committee, at ANSI headquarters in New York on September 21, 1982, a discussion was held on the proposed NLAC. Four members of the Certification Committee were appointed to a special task force to study the possible organization of an NLAC. It was decided to follow the developments of the NLAC group at ASTM rather than initiate a separate effort.

Bilateral Agreements

A memorandum of understanding (MOU) signed by Dr. Ernest Ambler, Director of the National Bureau of Standards (NBS) and Mr. E. E. Bond, Chairman of the Australian National Association of Testing Authorities (NATA) was completed on September 24, 1982, to provide mutual recognition of testing laboratories of these national systems. The MOU commits each system to:

- 1) Recognize the accreditation of a testing laboratory by NATA or NVLAP as being equivalent to an accreditation by the other.
- 2) Recognize endorsed test reports issued by a laboratory accredited by NATA or NVLAP on the same basis as NATA or NBS recognizes endorsed test reports from its own accredited laboratories.
- 3) Recommend to other persons and organizations in their respective nations that such persons and organizations should recognize the accreditation granted to laboratories by the parties to this MOU as being equivalent to each other's accreditation.
- 4) Recommend to other persons and organizations in their respective nations that such persons and organizations should accept endorsed test reports issued under the laboratory accreditation system administered

by each of the parties to this MOU as being equivalent to endorsed test reports issued by laboratories accredited by the other party.

- 5) Maintain records of the terms of accreditation of laboratories accredited by each of the parties to this MOU and make this information generally available.
- 6) Publish criteria to accredit the laboratories in their own country, maintain on file the other country's criteria, and collaborate in the development and adoption of revised criteria for accreditation of testing laboratories to increase harmony between the two accreditation systems.
- 7) Agree to reassess their own laboratories on a regularly scheduled basis and collaborate in the development and adoption of laboratory examination methods and in particular, where practical, cooperation in operating proficiency testing programs.
- 8) Cooperate in promoting the development and adoption of laboratory accreditation principles internationally and in the development of international standards relating to laboratory accreditation.

An appendix to the MOU describes specific differences between laboratory evaluation criteria for each system.

In spite of differences in criteria, each party to the agreement agrees that: 1) the resulting accreditations granted to laboratories are comparable; 2) work will continue toward eliminating or minimizing differences; and, 3) any complaints about laboratories the other party has accredited will be resolved through joint cooperation.

As part of the agreement, NVLAP and NATA have exchanged personnel to study the operation of each system. They have also accompanied assessors for each system to assist in the on-site assessment of testing laboratories.

Additional bilateral agreements are being considered with laboratory accreditation systems in Canada, Mexico, New Zealand, and the United Kingdom. The agreements are expected to have language similar to the NATA agreement.

International Laboratory Accreditation Conference

The 6th Annual International Laboratory Accreditation Conference (ILAC) was held in Tokyo, Japan on October 18–22, 1982. The Director of the NBS Office of Product Standards Policy led the U.S. delegation, which included eight private sector representatives.

Reports from a number of working groups, committees and task forces were reviewed and included the following:

The second “International Directory of Laboratory Accreditation Systems and Other Schemes for Assessment of Testing Laboratories”

“The Selection and Training of Assessors for Testing Laboratory Assessment”

“Assessing and Evaluating Testing Laboratories”

“Suggested Procedures for the Operation of Proficiency Testing Programs by Laboratory Accreditation Systems”

“Comparative Analysis of Laboratory Accreditation Systems”

“Draft Guidelines for Development of a Quality Manual for Testing Laboratories,” and

“Guidelines for the Determination of Calibration Intervals of Measuring Equipment Used in Testing Laboratories”

Work continues on collecting, analyzing, and disseminating information concerning bilateral and other agreements for the reciprocal recognition of laboratory accreditation systems and mutual acceptance of test reports.

Appendix

List of 1982 Documents

January	5th Issue of the NVLAP News, January 1982
January 5	Federal Register: NVLAP: Acoustical Testing Services; Public Workshops (2/23/82-2/24/82 and 3/10/82-3/11/82)
January 14	Federal Register: Electromagnetic Calibration Services; Finding of Need
January 14	Federal Register: Quarterly Report (Oct. 1-Dec. 31, 1981)
January 21	Federal Register: Notice of Request for a LAP from HUD for windows and doors, and call for public comment
February	NVLAP Tech Brief, Carpet LAP, Round 3
February 17	Federal Register: Personnel Dosimetry Processing, Public Workshop; scheduled for April 12-13, 1982
March 5	Federal Register: Accreditation Process for Insulation, Concrete and Carpet Programs; Fees for Insulation, Concrete, and Carpet Programs
April 2	Federal Register: Electromagnetic Calibration Services, Public Workshop, July 1-2, NBS, Boulder, CO
April 14	Federal Register: Quarterly Report (Jan. 1-Mar. 31) 1st for 1982
April 20	Federal Register: Formal Establishment of Solid Fuel Room Heaters Program (Stove LAP) Federal Register: Fees for Stove Program
April 21	Federal Register: Carpet Testing, Public Workshop, May 26, 1982, CRI, Dalton, GA
May	NVLAP Tech Brief: Carpet LAP, Round 4
May 28	Federal Register: Discontinuation of the Laboratory Accreditation Program for Windows and Doors
June	6th Issue of the NVLAP News, June 1982
June	NVLAP Tech Brief: Within-Laboratory Proficiency Program for The Concrete LAP
June 3	Federal Register: Invitation to Participate in International Laboratory Accreditation Conference (ILAC) 1982
July	NVLAP Tech Brief: Carpet LAP, Summary of Rounds 1, 2, 3, and 4
July 16	Federal Register: NVLAP Quarterly Report (Apr. 1-June 30) 2nd for 1982
August 3	Federal Register: National Laboratory Accreditation Advisory Committee; Establishment
August 10	Federal Register: Announcement of Accreditation Action
August 18	Federal Register: Open Meeting of the U.S. Delegation to the International Laboratory Accreditation Conference 1982
August 23	NVLAP Lab Bulletin No. 7, <i>Accreditation for ASTM 687-71, Thermal Resistance (Rec. Practice) Loose-Fill (Fibrous)</i> . Insulation LAP
August 24	Federal Register: Preliminary Finding of Need to Accredite Laboratories That Test Window and Door Products
September	NVLAP Fifth Annual Report of Calendar Year 1981

September	NVLAP Tech Brief: Insulation LAP, Rounds 5 and 6
September	NVLAP Brochures: for everyone (Part 7a procedures); for Federal agencies (Part 7b procedures); for private sector organizations (Part 7c procedures)
September 10	Federal Register: Formal Establishment of Acoustical Testing Services Laboratory Accreditation Program (Acoustics LAP) Federal Register: Fees for Acoustics Laboratory Accreditation Program
September 24	Memorandum of Understanding (MOU) between NVLAP and NATA from Australia
October	NVLAP Lab Bulletin No. 8: Addition of ASTM D2126 Procedure G and California Energy Commission Tests for Insulating Materials to the Thermal Insulation Materials Laboratory Accreditation Program
October	NVLAP Tech Brief: NVLAP Proficiency Testing, Insulation LAP, Settled Density, Rounds 3, 4, 5, 6, and 7
October	NVLAP Lab Bulletin No. 9: Guidelines for NVLAP Accredited Laboratories
October 27	Federal Register: NVLAP Quarterly Report (July 1–Sept. 30) 3rd for 1982
October 29	U.S. Department of Commerce News Release—International Trade to be Facilitated by NBS Recognition of Foreign Laboratory Accreditation Systems
November	NVLAP Tech Brief: NVLAP Proficiency Testing, Carpet LAP, Round 5
November 12	Federal Register: NVLAP; National Laboratory Accreditation Advisory Committee; Open Meeting
December	7th Issue of the NVLAP News, December 1982
December 16	Federal Register: NVLAP; Report of Laboratory Accreditation Actions for November 1982

Part II

Directory of Accredited Laboratories

This directory is current as of June 15, 1983

Section 1

ALPHABETICAL LISTING OF ACCREDITED LABORATORIES AND THE TEST METHODS FOR WHICH EACH LABORATORY IS ACCREDITED

NOTE: Testing laboratories accredited by the Secretary under these procedures are not immune from the necessity of being in compliance with all legal obligations and responsibilities imposed by existing Federal, State, and local laws, ordinances, and regulations, including those related to consumer protection and antitrust prohibitions.

A & H/FLOOD ENGINEERING

Attn: Paul E. Flood, 4421 Harrison Street, Hillside, IL 60162

Accreditation Renewal Date: April 1, 1984

Phone: (312) 449-0500

<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

AGUIRRE ENGINEERS, INC.

Attn: Vukoslav E. Aguirre, P.O. Box 3814, Englewood, CO 80155

Accreditation Renewal Date: January 1, 1984

Phone: (303) 694-2277

<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

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
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.

Attn: Michael D. Connell, P.O. Box 357, 111 West Nashville Street, Ringgold, GA 30736

Accreditation Renewal Date: January 1, 1984

Phone: (404) 935-5672

<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	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29)
		as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
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
03/B02	UM 44C	Attached Cushion Tests
	Addenda 2 and 3	

AMERICAN TESTING LABORATORIES, INC.

Attn: John S. Kassees, 784 Flory Mill Road, Box 4014, Lancaster, PA 17604

Accreditation Renewal Date: April 1, 1984

Phone: (717) 569-0488

<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

APACHE BUILDING PRODUCTS COMPANY

Attn: Dennis W. Rosato, 2025 East Linden Avenue, Linden, NJ 07036

Accreditation Renewal Date: October 1, 1983

Phone: (201) 486-6723

<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

<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/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

ARIZONA SAND AND ROCK COMPANY

Attn: Roy Stegall, 1801 East University Drive, P.O. Box 20067, Phoenix, AZ 85036

Accreditation Renewal Date: April 1, 1984

Phone: (602) 254-8465

<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

ARNOLD GREENE TESTING LABORATORIES

Attn: Robert J. Halliday, 2 Millbury Street, Auburn, MA 01501

Accreditation Renewal Date: January 1, 1984

Phone: (617) 235-7330

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (3/1/82)	1st Edition (8/9/79) with revision pages through 8/31/81
	Physical/Fire Test Group		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F03	Smoke Spillage (visual observation)		11
04/F04	Radiant Fire Test	11	12 & 12A
04/F05	Coal Fire Test		11A
04/F06	Brand Fire Test	12	13 & 13A
04/F07	Flash Fire Test	13	14
04/F08	Strength Tests	15	15
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	17
	Mobile Home Test Group		
04/M01	Test Installation	17	18
04/M02	Toxic Gas	17	18
04/M03	Drop Test	17	18

NVLAP Code Short Title

	Electrical Test Group		
04/E01	Test Voltages	33	35
04/E02	Temperature Measurements, Electrical Components	34	36
04/E03	Input Test	35	37
04/E04	Temperature Test, Electrical Components	36	38
04/E05	Leakage Current	38	40
04/E06	Dielectric Withstand	37	39
04/E07	Locked Rotor (Stalled Motor) Temperature	39	41
04/E08	Power Cord Strain Relief	40	25.4

THE ARUNDEL CORPORATION, GREENSPRING LABORATORY

Attn: David Wherley, 6806 Greenspring Avenue, Baltimore, MD 21209

Accreditation Renewal Date: January 1, 1984

Phone: (301) 296-6400

NVLAP Code	Designation	Short Title
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

ASSOCIATED TESTING LABORATORIES

Attn: George J. Murphy, 23 Vincent Street, Wayne, NJ 07470

Accreditation Renewal Date: April 1, 1984

Phone: (201) 628-1363

NVLAP Code	Designation	Short Title
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets

**ATLANTIC TESTING LABORATORIES, LTD.
CICERO DIVISION**

Attn: Marcus Rotundo, P.O. Box 356, Cicero, NY 13039

Accreditation Renewal Date: April 1, 1984

Phone: (315) 699-5281

NVLAP Code	Designation	Short Title
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., GEORGIA RUG MILL

Attn: Van A. Pullen, Lyerly Street, Summerville, GA 30747

Accreditation Renewal Date: January 1, 1984

Phone: (404) 857-2421

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
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

BIGELOW-SANFORD, INC., TECHNICAL SERVICES

Attn: Hamir D. Merchant, P.O. Box 3089, Greenville, SC 29602

Accreditation Renewal Date: January 1, 1984

Phone: (803) 299-2630

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
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

BUTLER MANUFACTURING COMPANY RESEARCH CENTER

Attn: Marvin K. Snyder, 135th Street and Botts Road, Grandview, MO 64030

Accreditation Renewal Date: January 1, 1984

Phone: (816) 763-3022

<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

C. H. MASLAND AND SONS**Attn: David A. Boyles, P.O. Box 40, Carlisle, PA 17013****Accreditation Renewal Date: January 1, 1984****Phone: (717) 249-1866**

<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	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
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

CAPITOL CEMENT**Attn: Thomas L. Vick, 11551 Nacogdouches Road, P.O. Drawer 33240, San Antonio, TX 78233****Accreditation Renewal Date: January 1, 1984****Phone: (512) 655-3010**

<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

CENTRAL READY-MIXED CONCRETE, RESEARCH & TECHNICAL CENTER**Attn: Christine B. Andresen, 4350 South 13th Street, Milwaukee, WI 53221****Accreditation Renewal Date: January 1, 1984****Phone: (414) 282-4200**

<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

CERTAINTEED CORPORATION, INSULATION GROUP, R & D LAB**Attn: W. Francis Olix, 1400 Union Meeting Road, Blue Bell, PA 19422****Accreditation Renewal Date: January 1, 1984****Phone: (215) 542-0500**

<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/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	ASTM D777 (as modified by HH-B-100B)	Flammability; 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)
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/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)

CERTIFIED TESTING LABORATORIES, INC.**Attn: John H. Frank, 1105 Riverbend Drive, P.O. Box 2041, Dalton, GA 30720****Accreditation Renewal Date: January 1, 1984****Phone: (404) 226-1400**

<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	Methods of Testing Woven and Tufted Pile Floor Coverings

NVLAP Code Designation**Short Title**

		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29)
		as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as
		modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
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/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	Attached Cushion Tests
	Addenda 2 and 3	

CHISHOLM TRAIL TESTING AND ENGINEERING COMPANY, INC.

Attn: James F. Rosendahl, 302 South Miller Street, Decatur, TX 76234

Accreditation Renewal Date: January 1, 1984

Phone: (817) 627-5216

NVLAP Code Designation**Short Title**

03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted
		Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29)
		as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as
		modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
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

COMMERCIAL TESTING COMPANY, INC.

Attn: Jonathan Jackson, 1215 South Hamilton Street, P.O. Box 985, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1984

Phone: (404) 278-3935

NVLAP Code Designation**Short Title**

01/C02	HH-I-515	Corrosiveness; Cellulosic
	(para. 4.8.5 in D version,	fiber (loose-fill)
	Amendment 1)	
01/D25	HH-I-515	Moisture absorption;
	(para. 4.8.3 in D version,	Cellulosic fiber (loose-fill)
	Amendment 1)	
01/D26	HH-I-515	Settled density; Cellulosic fiber
	(para. 4.8.1 in D version,	(loose-fill)
	Amendment 1)	
01/F07	HH-I-515	Critical radiant flux;
	(para. 4.8.7 in D version,	Radiant Panel (cellulosic fiber,
	Amendment 1)	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/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
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

CONROCK CO., TESTING LABORATORY

Attn: Robert W. Floyd, P.O. Box 2950, Terminal Annex, Los Angeles, CA 90051

Accreditation Renewal Date: January 1, 1984

Phone: (213) 258-2777

<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 LAB, DIVISION OF PORTLAND CEMENT ASSOCIATION

Attn: T. J. Rowe, 5420 Old Orchard Road, Skokie, IL 60077

Accreditation Renewal Date: January 1, 1984

Phone: (312) 966-6200

<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

CONTRACTORS SUPPLY CORPORATION OF WEST VIRGINIA, INC.

Attn: Anthony A. Gulo, 24th and Water Streets, P.O. Box 6587, Wheeling, WV 26003

Accreditation Renewal Date: January 1, 1984

Phone: (304) 232-1048

<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

CORONET CARPETS, INC.

Coronet Industries

Attn: Winfred L. Jones, Cleveland Drive, P.O. Box 1248, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1984

Phone: (404) 259-4511

<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	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

THE DOLESE COMPANY, ENGINEERING LABORATORY

Attn: Kermit Severin, 20 NW 13th Street, P.O. Box 677, Oklahoma City, OK 73101

Accreditation Renewal Date: January 1, 1984

Phone: (405) 235-2311

<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

Note: This laboratory voluntarily terminated its accreditation on June 9, 1983

**DOW CHEMICAL USA, FOAM PRODUCT RESEARCH,
PRODUCT EVALUATION**

Attn: Dale E. Keeler, P.O. Box 515, Granville, OH 43023

Accreditation Renewal Date: January 1, 1984

Phone: (614) 587-4313

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D07	ASTM C272	Water absorption; Core materials
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/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
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)

DYNATECH R/D COMPANY, THERMOPHYSICS LABORATORY

Attn: Andre O. Desjarlais, 99 Erie Street, Cambridge, MA 02139

Accreditation Renewal Date: January 1, 1984

Phone: (617) 868-8050

<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/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
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/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

EASTCOAST TESTING & ENGINEERING, INC.

Attn: Craig S. Smith, 430 NW Flagler Drive, Ft. Lauderdale, FL 33301

Accreditation Renewal Date: July 1, 1984

Phone: (305) 523-4244

<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

E & B CARPET MILLS, INC.

Attn: Robert H. Davis, 1020 Riverbend Drive, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1984

Phone: (404) 278-3197

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
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

Attn: Thomas H. Butler, 1420 Triplett Blvd., Bldg. #2, Akron, OH 44306

Accreditation Renewal Date: January 1, 1984

Phone: (216) 375-2861

<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

ENERGY SYSTEMS, INC.

Attn: Neil Tyson, 1705 Pumphrey Avenue, Auburn, AL 36830

Accreditation Renewal Date: January 1, 1984

Phone: (205) 821-9400

Section of UL 737 5th Edition (3/1/82)	Section of UL 1482 1st Edition (8/9/79) with revision pages through 8/31/81
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<i>NVLAP Code</i>	<i>Short Title</i>		
	Physical/Fire Test Group		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F03	Smoke Spillage (visual observation)		11
04/F04	Radiant Fire Test	11	12 & 12A
04/F05	Coal Fire Test		11A
04/F06	Brand Fire Test	12	13 & 13A
04/F07	Flash Fire Test	13	14
04/F08	Strength Tests	15	15
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	17
	Mobile Home Test Group		
04/M01	Test Installation	17	18
04/M02	Toxic Gas	17	18
04/M03	Drop Test	17	18
	Electrical Test Group		
04/E01	Test Voltages	33	35
04/E02	Temperature Measurements, Electrical Components	34	36
04/E03	Input Test	35	37
04/E04	Temperature Test, Electrical Components	36	38
04/E05	Leakage Current	38	40
04/E06	Dielectric Withstand	37	39
04/E07	Locked Rotor (Stalled Motor) Temperature	39	41
04/E08	Power Cord Strain Relief	40	25.4

ENERGY TESTING LABORATORY OF MAINE

Attn: J. Douglas Brownrigg, Southern Maine Vocational Technical Institute,
Fort Road, South Portland, ME 04106

Accreditation Renewal Date: January 1, 1984

Phone: (207) 799-7303

<i>NVLAP Code</i>	<i>Short Title</i>	Section of UL 737	Section of UL 1482
		5th Edition (3/1/82)	1st Edition (8/9/79) with revision pages through 8/31/81
	Physical/Fire Test Group		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F03	Smoke Spillage (visual observation)		11
04/F04	Radiant Fire Test	11	12 & 12A
04/F05	Coal Fire Test		11A
04/F06	Brand Fire Test	12	13 & 13A
04/F07	Flash Fire Test	13	14
04/F08	Strength Tests	15	15
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	17

FACTORY MUTUAL RESEARCH CORPORATION

Attn: William F. Maroni, 1151 Boston-Providence Turnpike, Norwood, MA 02062

Accreditation Renewal Date: January 1, 1984

Phone: (617) 762-4300

<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)
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/F04	ASTM E648	Radiant Panel (Carpet)

FOX & ASSOCIATES OF ARIZONA, INC.**Attn: Ronald L. Pruett, 3301 East Madison Street, Phoenix, AZ 85034****Accreditation Renewal Date: July 1, 1983****Phone: (602) 244-8197**

<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

GALAXY CARPET MILLS, TESTING LABORATORY**Attn: Lou Childers, Industrial Blvd., P.O. Box 800, Chatsworth, GA 30705****Accreditation Renewal Date: January 1, 1984****Phone: (404) 695-9611**

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
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

GARCO TESTING LABORATORIES**Attn: Douglas L. Watson, 41 West Central Avenue, P.O. Box 7006, Salt Lake City, UT 84107****Accreditation Renewal Date: January 1, 1984****Phone: (801) 266-4498**

<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

GENERAL TESTING LABORATORIES, INC.

Attn: Lawrence Poisner, 1517 Walnut Street, Kansas City, MO 64108

Accreditation Renewal Date: January 1, 1984

Phone: (816) 471-1205

<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

GENSTAR STONE PRODUCTS CO., QUALITY CONTROL LABORATORY

Attn: Robert L. Chester, 10300 Pulaski Highway, White Marsh, MD 21162

Accreditation Renewal Date: January 1, 1984

Phone: (301) 628-4000

<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

GEOSCIENCE LTD.

Attn: Heinz F. Poppendiek, 410 South Cedros Avenue, Solana Beach, CA 92075

Accreditation Renewal Date: January 1, 1984

Phone: (714) 755-9396

<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

**GOLD BOND BUILDING PRODUCTS, A NATIONAL GYPSUM DIVISION,
RESEARCH CENTER**

Attn: Joseph Volk, 1650 Military Road, Buffalo, NY 14217

Accreditation Renewal Date: April 1, 1984

Phone: (716) 873-9750

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ANSI/ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523-68(81)	Light Reflectance of Acoustical Materials
08/P06	ANSI/ASTM E90-82	Airborne Sound Transmission Loss of Building Partitions

HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION

Attn: William J. Groah, 1825 Michael Faraday Drive, P.O. Box 2789, Reston, VA 22090

Accreditation Renewal Date: January 1, 1984

Phone: (703) 435-2900

<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)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

HERRON CONSULTANTS, INC.

Attn: Jon Hugh Peterson, 5555 Canal Road, Cleveland, OH 44125

Accreditation Renewal Date: January 1, 1984

Phone: (216) 447-1335

<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.

Attn: Cornelius C. Setter, 1499 Murray Avenue, P.O. Box 1948, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1984

Phone: (404) 278-3013

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
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

INSTA-FOAM PRODUCTS, INC.**Attn: Joseph John Elsey, 1500 Cedarwood Drive, Joliet, IL 60435****Accreditation Renewal Date: January 1, 1984****Phone: (815) 741-6851**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
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/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/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water Vapor Transmission; Thin Sheets (proc. A)

INTEST LABORATORIES, INC.**Attn: Donald L. Valsvik, 2820 Anthony Lane South, Minneapolis, MN 55418****Accreditation Renewal Date: January 1, 1984****Phone: (612) 781-2603**

<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/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)

JIM WALTER RESEARCH CORPORATION

Attn: Alan P. Conroy, 10301 Ninth Street North, St. Petersburg, FL 33702

Accreditation Renewal Date: January 1, 1984

Phone: (813) 576-4171

<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 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 13 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
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
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/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	ANSI/ASTM C423-81	Sound Absorption and Sound Absorption Coefficients

KELSO INDUSTRIES, INC., QUALITY CONTROL LABORATORY

Attn: Chris G. Slate, 7002 Industrial Road, P.O. Box 659, Galveston, TX 77553

Accreditation Renewal Date: January 1, 1984

Phone: (713) 744-5341

<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

LANDER THERMAL CONDUCTIVITY LABORATORY

Attn: R. M. Lander, 1320 West 28th Street, Minneapolis, MN 55408

Accreditation Renewal Date: January 1, 1984

Phone: (612) 872-7230

<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

LINCOLN-DEVORE TESTING LABORATORY, INC.

Attn: George D. Morris, 1000 West Fillmore Street, Colorado Springs, CO 80907

Accreditation Renewal Date: July 1, 1983

Phone: (303) 632-3595

<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

LOUISIANA-PACIFIC CORPORATION, PABCO R & D LABORATORY

Attn: F. B. Hutto, Jr., 1110 Sixteen Road, Fruita, CO 81521

Accreditation Renewal Date: January 1, 1984

Phone: (303) 858-3694

<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

MANVILLE CORPORATION, R & D CENTER

Attn: Joseph P. Ferraro, P.O. Box 5108, Denver, CO 80217

Accreditation Renewal Date: January 1, 1984

Phone: (303) 978-5553

<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 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)

NVLAP Code	Designation	Short Title
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 13 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/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/D14	ASTM C520	Density; Granular loose-fill
01/F01	ASTM D777 (as modified by HH-B-100B)	Flammability; 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 (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/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)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P02	ANSI/ASTM C384-77	Impedance and Absorption of Acoustical Materials
08/P04	ASTM C522-80	Airflow Resistance of Acoustical Materials

MATERIALS SERVICE CORPORATION

Attn: John Albinger, 300 W. Washington Street, Chicago, IL 60606

Accreditation Renewal Date: January 1, 1984

Phone: (312) 372-3600

<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

NAHB RESEARCH FOUNDATION, INC.

Attn: Hugh Angleton, 627 Southlawn Lane, P.O. Box 1627, Rockville, MD 20850

Accreditation Renewal Date: January 1, 1984

Phone: (301) 762-4200

<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)

NORTHERN TESTING LABORATORIES, INC., BILLINGS AREA LABORATORY

Attn: Larry O'Dell, P.O. Box 30615, Billings, MT 59107

Accreditation Renewal Date: January 1, 1984

Phone: (406) 248-9161

<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

NORTHERN TESTING LABORATORIES, INC., BOISE AREA LABORATORY

Attn: Roger W. Pocta, P.O. Box 7867, Boise, ID 83707

Accreditation Renewal Date: January 1, 1984

Phone: (208) 377-2100

<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

NORTHERN TESTING LABORATORIES, INC., GREAT FALLS AREA LABORATORY

Attn: Jerry A. Peterson, P.O. Box 951, Great Falls, MT 59403

Accreditation Renewal Date: January 1, 1984

Phone: (406) 453-1641

<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

OLIN CORPORATION, PHYSICAL TESTING LABORATORY

Attn: D. Robert Shine, 275 Winchester Avenue, Bldg. 117C, P.O. Box 30-275, New Haven, CT 06511

Accreditation Renewal Date: January 1, 1984

Phone: (203) 789-5892

<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/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/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

OWENS-CORNING FIBERGLAS CORP., TECHNICAL CENTER LABORATORY

Attn: William M. Edmunds, Route 16, P.O. Box 415, Granville, OH 43023

Accreditation Renewal Date: January 1, 1984

Phone: (614) 587-7024

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C01	ASTM C739 (para. 7.7 in 77 version)	Corrosiveness; Cellulosic fiber (loose-fill)

<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/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 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 13 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/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. 7.5 in 77 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/F01	ASTM D777 (as modified by HH-B-100B)	Flammability; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
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/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/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	ASTM D591	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	ANSI/ASTM C367-78	Strength Properties, Prefabricated Architectural Acoustical Materials
08/P02	ANSI/ASTM C384-77	Impedance and Absorption of Acoustical Materials
08/P03	ANSI/ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P04	ASTM C522-80	Airflow Resistance of Acoustical Materials

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ANSI/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

**OWENS-CORNING FIBERGLAS CORP.,
BARRINGTON, NEW JERSEY PLANT LABORATORY**

Attn: Andrew Green, Davis & Shreeve Roads, Barrington, NJ 08007

Accreditation Renewal Date: January 1, 1984

Phone: (609) 547-9200

<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 CORP., DELMAR, NEW YORK PLANT LABORATORY

Attn: Mark P. Arnold, Route 32, Feura Bush Road, Delmar, NY 12054

Accreditation Renewal Date: January 1, 1984

Phone: (518) 439-9341

<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

OWENS-CORNING FIBERGLAS CORP., FAIRBURN, GEORGIA PLANT LABORATORY

Attn: Larry Maynard, 700 McLaren Road, Fairburn, GA 30213

Accreditation Renewal Date: January 1, 1984

Phone: (404) 964-9811

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

OWENS-CORNING FIBERGLAS CORP., KANSAS CITY, KANSAS PLANT LABORATORY

Attn: Glen McCoy, 300 Sunshine Road, P.O. Box 15139, Kansas City, KS 66115

Accreditation Renewal Date: January 1, 1984

Phone: (913) 281-2811

<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 CORP., NEWARK, OHIO PLANT LABORATORY

Attn: P. D. Shull, Case Avenue, Newark, OH 43055

Accreditation Renewal Date: January 1, 1984

Phone: (614) 345-3441

<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 CORP.,

SANTA CLARA, CALIFORNIA PLANT LABORATORY

Attn: Monte Schenkin, 960 Central Expressway, P.O. Box 89, Santa Clara, CA 95052

Accreditation Renewal Date: January 1, 1984

Phone: (408) 727-3535

<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 CORP., WAXAHACHIE, TEXAS PLANT LABORATORY

Attn: Mark Kwasowski, Interstate 35 East, Waxachie, TX 75165

Accreditation Renewal Date: January 1, 1984

Phone: (214) 937-1340

<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

PARRATT-WOLFF, INC.

Attn: Bruce L. Higgins, Fisher Road, East Syracuse, NY 13057

Accreditation Renewal Date: January 1, 1984

Phone: (315) 437-1429

<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

PFS CORPORATION

Attn: Ed Starostovic, 2402 Daniels Street, Madison, WI 53704

Accreditation Renewal Date: January 1, 1984

Phone: (608) 221-3361

Section of UL 737
5th Edition
(3/1/82)Section of UL 1482
1st Edition
(8/9/79)with revision pages
through 8/31/81**NVLAP Code Short Title**

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PITTSBURGH TESTING LABORATORY

Attn: William H. Levelius, 850 Poplar Street, Pittsburgh, PA 15220

Accreditation Renewal Date: October 1, 1983

Phone: (412) 922-4000

NVLAP Code	Designation	Short Title
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

QUIKRETE TECHNICAL CENTER

Attn: Thomas Pecuil, 2250 Stephenson Road, Lithonia, GA 30058

Accreditation Renewal Date: October 1, 1983

Phone: (404) 482-7264

<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

R. W. SIDLEY, INC., SIDLEY QUALITY CONTROL LABORATORY

Attn: Lawrence McCune, 6900 Madison Road, Thompson, OH 44086

Accreditation Renewal Date: January 1, 1984

Phone: (216) 298-3232

<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

RIVERBANK ACOUSTICAL LABORATORY OF IITRI

Attn: Owen J. Viergutz, P.O. Box 189, 1512 Batavia Avenue, Geneva, IL 60134

Accreditation Renewal Date: April 1, 1984

Phone: (312) 567-4703

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ANSI/ASTM C423-81	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ANSI/ASTM E90-82	Airborne Sound Transmission Loss of Building Partitions
08/P07	ANSI/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

SALEM CARPET LABORATORY

Attn: Michael A. Corbin, Highway 225 South, P.O. Box 160, Chatsworth, GA 30705

Accreditation Renewal Date: July 1, 1984

Phone: (404) 695-4663

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination

SHAW INDUSTRIES, INC.

Attn: Carey Mitchell, Plant #4, S. Hamilton Street Ext., P.O. Drawer 2128, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1984

Phone: (404) 278-3812

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/F03	DoC FF1-70	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination

SMITH-EMERY COMPANY

Attn: George E. Battey, Jr., 781 East Washington Boulevard, Los Angeles, CA 90021

Accreditation Renewal Date: January 1, 1984

Phone: (213) 749-3411

<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

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

SOUTHWEST RESEARCH INSTITUTE, DEPARTMENT OF FIRE TECHNOLOGY

Attn: Carl A. Hafer, 6220 Culebra Road, San Antonio, TX 78284

Accreditation Renewal Date: January 1, 1984

Phone: (512) 684-5111

<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)

SPARRELL ENGINEERING RESEARCH CORPORATION

Attn: James K. Sparrell, Bristol Road, P.O. Box 130, Damariscotta, ME 04543

Accreditation Renewal Date: January 1, 1984

Phone: (207) 563-3224

<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

STANDARD TESTING AND ENGINEERING COMPANY

Attn: Daniel B. Hapke, 3400 Lincoln Boulevard, Oklahoma City, OK 73105

Accreditation Renewal Date: January 1, 1984

Phone: (405) 528-0541

<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

STRATTON LABORATORIES

Attn: Jack R. Kilgore, Highway 61, South, P.O. Box 1007, Cartersville, GA 30120

Accreditation Renewal Date: October 1, 1983

Phone: (404) 382-9350

<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.
NORTHBROOK ILLINOIS OFFICE**

Attn: Michael T. Russell, 111 Pfingsten Road, Northbrook, IL 60062

Accreditation Renewal Date: January 1, 1984

Phone: (312) 272-6520

<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.
RALEIGH NORTH CAROLINA OFFICE**

Attn: Barney Hale, P.O. Box 12015, Research Triangle Park, NC 27709

Accreditation Renewal Date: April 1, 1984

Phone: (919) 787-5124

<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

THE TANNER COMPANIES, UNITED METRO DIVISION LABORATORY

Attn: Harold J. Wright, 3240 South 19th Avenue, Phoenix, AZ 85036

Accreditation Renewal Date: January 1, 1984

Phone: (602) 262-1323

<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

TESTING ENGINEERS, INC., OAKLAND DIVISION

Attn: Clifford N. Craig, 2811 Adeline Street, P.O. Box 24075, Oakland, CA 94623

Accreditation Renewal Date: January 1, 1984

Phone: (415) 835-3142

<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

TESTING ENGINEERS, INC., SANTA CLARA DIVISION

Attn: Lee W. Mattis, 401 Aldo Avenue, Santa Clara, CA 95050

Accreditation Renewal Date: January 1, 1984

Phone: (408) 988-8888

<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

TEXAS TESTING LABORATORIES, INC.

Attn: Robert L. Henry, 1526 S. Good-Latimer Expressway, P.O. Box 2144, Dallas, TX 75221

Accreditation Renewal Date: January 1, 1984

Phone: (214) 428-7481

<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

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

TWIN CITY TESTING AND ENGINEERING LABORATORY, INC.

Attn: Richard Stehly, 662 Cromwell Avenue, St. Paul, MN 55114

Accreditation Renewal Date: January 1, 1984

Phone: (612) 645-3601

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/V04	ASTM E96	Water vapor transmission; thin sheets (proc. A)
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

UNDERWRITERS LABORATORIES, INC., NORTHBROOK, ILLINOIS

Attn: Steve Mazzoni, 333 Pfingsten Road, Northbrook, IL 60062

Accreditation Renewal Date: January 1, 1984

Phone: (312) 272-8800

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C01	ASTM C739 (para. 7.7 in 77 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 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 13 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)
01/D14	ASTM C520	Density; Granular loose-fill
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D24	ASTM C739 (para. 7.5 in 77 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 77 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	ASTM D591	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)

NVLAP Code Short Title

Physical/Fire Test Group		
04/F01	Test Installation	8
04/F02	Temperature Measurement	9
04/F03	Smoke Spillage (visual observation)	11
04/F04	Radiant Fire Test	11
04/F05	Coal Fire Test	12 & 12A
04/F06	Brand Fire Test	11A
04/F07	Flash Fire Test	13 & 13A
04/F08	Strength Tests	14
04/F09	Stability Test	15
04/F10	Glazing Test	16
		17
Mobile Home Test Group		
04/M01	Test Installation	17
04/M02	Toxic Gas	18
04/M03	Drop Test	18
Electrical Test Group		
04/E01	Test Voltages	33
04/E02	Temperature Measurements, Electrical Components	34
04/E03	Input Test	35
04/E04	Temperature Test, Electrical Components	36
04/E05	Leakage Current	37
04/E06	Dielectric Withstand	38
04/E07	Locked Rotor (Stalled Motor) Temperature	40
04/E08	Power Cord Strain Relief	39
		41
		25.4

UNDERWRITERS LABORATORIES, INC., SANTA CLARA, CALIFORNIA LABORATORY

Attn: Steven Roll, 1655 Scott Boulevard, Santa Clara, CA 95050

Accreditation Renewal Date: January 1, 1984

Phone: (408) 985-2400

NVLAP Code Designation

Short Title

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>		
	Physical/Fire Test Group		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F03	Smoke Spillage (visual observation)		11
04/F04	Radiant Fire Test	11	12 & 12A
04/F05	Coal Fire Test		11A
04/F06	Brand Fire Test	12	13 & 13A
04/F07	Flash Fire Test	13	14
04/F08	Strength Tests	15	15
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	17
	Mobile Home Test Group		
04/M01	Test Installation	17	18
04/M02	Toxic Gas	17	18
04/M03	Drop Test	17	18
	Electrical Test Group		
04/E01	Test Voltages	33	35
04/E02	Temperature Measurements, Electrical Components	34	36
04/E03	Input Test	35	37
04/E04	Temperature Test, Electrical Components	36	38
04/E05	Leakage Current	38	40
04/E06	Dielectric Withstand	37	39
04/E07	Locked Rotor (Stalled Motor) Temperature	39	41
04/E08	Power Cord Strain Relief	40	25.4

UNION ROCK AND MATERIALS CORP.

Attn: Howard B. Pugh, Sr., 2800 Central Avenue, P.O. Box 8007, Phoenix, AZ 85066

Accreditation Renewal Date: July 1, 1983

Phone: (602) 276-4211

<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

UNITED STATES GYPSUM COMPANY

Attn: William Porter, 700 N. U.S. Highway 45, Libertyville, IL 60048

Accreditation Renewal Date: July 1, 1984

Phone (312) 362-9797

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T06	ASTM C518	Thermal Transmission Properties; Heat Flow Meter

UNITED STATES TESTING COMPANY, INC., HOBOKEN, NEW JERSEY LABORATORY

Attn: Carl B. Yoder, 1415 Park Avenue, Hoboken, NJ 07030

Accreditation Renewal Date: January 1, 1984

Phone: (201) 792-2400

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
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

UNITED STATES TESTING COMPANY, INC., CALIFORNIA DIVISION

Attn: Bernd Givon, 5555 Telegraph Road, Los Angeles, CA 90040

Accreditation Renewal Date: January 1, 1984

Phone: (213) 723-7181

<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/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
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/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/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

UNITED STATES TESTING COMPANY, INC., TULSA DIVISION

Attn: Fred D. Wampnar, 1341 North 108th East Avenue, Tulsa, OK 74116

Accreditation Renewal Date: January 1, 1984

Phone: (918) 437-8333

<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)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
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)

W. R. GRACE & COMPANY, CONSTRUCTION PRODUCTS DIVISION LABORATORY

Attn: Forrest R. Hurley, 62 Whittemore Avenue, Cambridge, MA 02140

Accreditation Renewal Date: January 1, 1984

Phone: (617) 876-1400

<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

THE WALT KEELER COMPANY, INC.

Attn: Kelly B. Callison,, 826 East Lincoln Street, P.O. Box 197, Wichita, KS 67201

Accreditation Renewal Date: January 1, 1984

Phone: (316) 265-0615

<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

WALTER CARPETS WEST POINT PEPPERELL

Attn: Don E. Kovach, 14641 East Don Julian Road, P.O. Box 1252, City of Industry, CA 91749

Accreditation Renewal Date: January 1, 1984

Phone: (213) 968-1464

<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	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
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

**WEST VIRGINIA DEPARTMENT OF HIGHWAYS
MATERIALS CONTROL, SOIL AND TESTING DIVISION**

Attn: Thomas M. Dugan, 312 Michigan Avenue, Charleston, WV 25311

Accreditation Renewal Date: April 1, 1984

Phone: (304) 348-3160

<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

WESTERN TECHNOLOGIES, INC.

Attn: Gary Baker, 3737 East Broadway Road, P.O. Box 21387, Phoenix, AZ 85036

Accreditation Renewal Date: January 1, 1984

Phone: (602) 268-1381

<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

WISS, JANNEY, ELSTNER AND ASSOCIATES, INC.

Attn: Jerry G. Stockbridge, 330 Pfingsten Road, Northbrook, IL 60062

Accreditation Renewal Date: July 1, 1984

Phone: (312) 272-7400

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

WORLD CARPETS, INC.

Attn: Wayne Murdock, One World Plaza, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1984

Phone: (404) 278-8000

<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	AST M D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100 191-5950	Textile Text Method - Breaking Strength Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

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 page number under each test method refers to the page number in Section 1 of this Directory in which, for each laboratory, 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. 7.7 in 77 version)
32, 43

01/C02 HH-I-515 Corrosiveness; cellulosic fiber (loose-fill) (para. 4.8.5 in D version, Amendment 1)
15, 16, 19, 22, 27, 32, 43, 47, 48

01/C03 California Energy Commission Tests for insulating materials: Corrosiveness—Mineral fiber blankets and loosefill

INSULATION LAP—DIMENSIONS, STABILITY, AND DENSITY PROPERTIES TEST METHODS

01/D01 ASTM C136 Sieve or screen analysis
15, 43

01/D02 ASTM C167 Thickness and density; blanket and batt
15, 29, 31, 32, 35, 35, 36, 36, 43

01/D03 ASTM C209 Thickness; board (cellulosic fiber) (para. 6 in 72 version)
28, 29, 32, 43

01/D04 ASTM C209 Water absorption, 2 hour; board (cellulosic fiber) (para. 13 in 72 version)
28, 29, 32, 43

01/D05 ASTM C209 Water absorption, 24 hour; board (cellulosic fiber) (para. 13 in 72 version by D1037; para. 100-106 in 72 version)
28, 29, 32, 43

01/D06 ASTM C209 Linear expansion; board (cellulosic fiber) (para. 13 in 72 version by D1037; para. 107-110 in 72 version)
28, 29, 32, 43

01/D07 ASTM C272 Water absorption; core materials
19, 32

01/D08 ASTM C302 Density; preformed pipe insulation
15, 24, 27, 29, 32, 43

01/D09 ASTM C303 Density; preformed block insulation
15, 27, 28, 29, 32, 35, 35, 36, 36, 36, 43

01/D11 ASTM C356 Linear shrinkage; soaking heat; preformed high temperature insulation
29, 32

01/D12 ASTM C411 Hot-surface performance; high temperature insulation
27, 29, 32

01/D13 ASTM C519 Density; loose-fill (fibrous)
15, 29, 31, 32, 43, 45

01/F08 HH-I-515 Smoldering combustion; cellulosic fiber (loose-fill) (para. 4.8.8 in D version, Amendment 1)
15, 16, 22, 27, 32, 43, 45, 48

INSULATION LAP—STRENGTH PROPERTIES TEST METHODS

01/S01 ASTM C165 Compressive properties; thermal insulation (proc. A)
15, 19, 29, 32

01/S02 ASTM C203 Breaking load/flexural strength; preformed block insulation
19, 28, 29, 32, 43

01/S03 ASTM C209 Transverse strength; board (cellulosic fiber) (para. 9 in 72 version)
28, 29, 32, 43

01/S04 ASTM C209 Deflection at specified load; board (cellulosic fiber) (para. 10 in 72 version)
28, 29, 32, 43

01/S05 ASTM C209 Tensile strength; parallel to surface; board (cellulosic fiber) (para. 11 in 72 version)
28, 29, 32, 43

01/S06 ASTM C209 Tensile strength; perpendicular to surface (para. 12 in 72 version)
28, 29, 32, 43

01/S07 ASTM C273 Shear test; sandwich construction
32, 32

01/S08 ASTM C446 Breaking load/modulus of rupture; preformed pipe insulation
15, 29, 32, 43

01/S09 ASTM D781 Puncture test; paperboard and fiberboard
15, 29, 32

01/S10 ASTM D828 Tensile breaking strength; paper and paperboard
15, 29, 32

01/S11 ASTM D1621 Compressive properties; rigid cellular plastics (proc. A-crosshead)
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01/S12 California Energy Commission tests for insulating materials: Bond strength—Spray applied cellulose

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HARDING-LAWSON ASSOCIATES

Attn: James E. Nichols, 940 Matley Lane, Reno, NV 89502

Accreditation Renewal Date: July 1, 1983

Phone: (702) 329-6123

<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

VIRGINIA CONCRETE LABORATORY

Attn: Richard A. Buckelew, Box 666, Springfield, VA 22150

Accreditation Renewal Date: April 1, 1984

Phone: (703) 354-6111

<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



U.S. DEPT. OF COMM. BIBLIOGRAPHIC DATA SHEET (See instructions)		1. PUBLICATION OR REPORT NO. NBS SP 654	2. Performing Organ. Report No.	3. Publication Date September 1983
4. TITLE AND SUBTITLE NVLAP, Sixth Annual Report and Directory of Accredited Laboratories (for the period January 1, 1982, to December 31, 1982)				
5. AUTHOR(S) Wiley A. Hall				
6. PERFORMING ORGANIZATION (If joint or other than NBS, see instructions) NATIONAL BUREAU OF STANDARDS DEPARTMENT OF COMMERCE WASHINGTON, D.C. 20234			7. Contract/Grant No.	
			8. Type of Report & Period Covered Annual	
9. SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (Street, City, State, ZIP) same as 6.				
10. SUPPLEMENTARY NOTES Library of Congress Catalog Card Number: 83-600576 <input type="checkbox"/> Document describes a computer program; SF-185, FIPS Software Summary, is attached.				
11. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here) This annual report of the National Voluntary Laboratory Accreditation Program (NVLAP) is prepared in accordance with NVLAP Procedures (Title 15 CFR Parts 7a, 7b, and 7c). Part I summarizes significant activities, including program changes, accreditation actions and ongoing discussions concerning laboratory accreditation on the national and international levels. Part II is a directory of laboratories currently accredited on behalf of the Secretary of Commerce.				
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