
THERMAL INSULATION MATERIALS TEST METHOD SELECTION LIST

Instruction: Check each test method for which you are requesting accreditation.

An asterisk beside the NVLAP Test Method Code indicates that proficiency testing is required. If you request accreditation for one or more of these test methods, you will be notified of the required proficiency testing.

Participation in proficiency testing is required for only one of the two test methods for the following pairs of test methods:

01/D26 and 01/D27
01/F07 and 01/F09
01/F08 and 01/F10.

<i>NVLAP Test Method Code</i>	<i>Test Method Designation</i>	<i>Short Title</i>
CORROSIVENESS		
_____ 01/C01	ASTM C739 (Sec. 9)	Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Corrosiveness)
_____ 01/C02	16 CFR-Part 1209.5	Cellulose Insulation Test Procedures for Corrosiveness (Loose-Fill)
_____ 01/C03	ASTM C665 (Sec. 13.8)	Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing (Corrosiveness)
_____ 01/C04	ASTM D3310	Determining Corrosivity of Adhesive Materials
_____ 01/C05	ASTM C1149 (Sec. 6.7)	Self-Supported Spray Applied Cellulosic Thermal Insulation
MASS, DENSITY, AND DIMENSIONAL STABILITY		
_____ 01/D01	ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
_____ 01/D02	ASTM C167	Thickness and Density of Blanket or Batt Thermal Insulations
_____ 01/D03	ASTM C209 (Sec. 7)	Cellulosic Fiber Insulating Board (Thickness)
_____ 01/D04	ASTM C209 (Sec. 14, 2 hour)	Cellulosic Fiber Insulating Board (Water Absorption, 2 hour)

DATE: _____

NVLAP LAB CODE: _____

_____ 01/D05	ASTM C209 (Sec. 14, 24 hour) by D1037 (Sec. 100-106)	Cellulosic Fiber Insulating Board (Water Absorption, 24 hour) Wood-Base Fiber and Particle Panel Materials (Water Absorption and Thickness Swelling, 24 hour)
_____ 01/D06	ASTM C209 (Sec. 15) by D1037 (Sec. 107-110)	Cellulosic Fiber Insulating Board (Linear Expansion) Wood-Base Fiber and Particle Panel Materials (Linear Variation with Change in Moisture Content)
_____ 01/D07	ASTM C272	Water Absorption of Core Materials for Structural Sandwich Constructions
_____ 01/D08	ASTM C302	Density and Dimensions of Preformed Pipe-Covering-Type Thermal Insulation
_____ 01/D09	ASTM C303	Dimensions and Density of Preformed Block and Broad-Type Thermal Insulation
_____ 01/D11	ASTM C356	Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat
_____ 01/D12	ASTM C411	Hot-Surface Performance of High-Temperature Thermal Insulation
_____ 01/D13	ASTM C519	Density of Fibrous Loose-Fill Building Insulations
_____ 01/D14	ASTM C520	Density of Granular Loose Fill Insulations
_____ 01/D15	ASTM D756 (Proc. A)	Weight and Shape Changes of Plastics under Accelerated Service Conditions
_____ 01/D16	ASTM D756 (Proc. B)	Weight and Shape Changes of Plastics under Accelerated Service Conditions
_____ 01/D17	ASTM D756 (Proc. E)	Weight and Shape Changes of Plastics under Accelerated Service Conditions
_____ 01/D18	ASTM D1622	Apparent Density of Rigid Cellular Plastics
_____ 01/D19	ASTM D2126	Response of Rigid Cellular Plastics to Thermal and Humid Aging
_____ 01/D23	ASTM D2842	Water Absorption of Rigid Cellular Plastics
_____ 01/D24	ASTM C739 (Sec. 12)	Cellulosic Fiber Loose-Fill Thermal Insulation (Moisture Vapor Sorption)
_____ 01/D26*	16 CFR-Part 1209.4	Settled Density (Specimen Container Cellulosic Fiber Loose-Fill)
_____ 01/D27*	ASTM C739 (Sec. 8)	Cellulosic Fiber Loose-Fill Thermal Insulation (Design Density)
_____ 01/D30	ASTM C585	Inner and Outer Diameters of Rigid Thermal Insulation for Nominal Sizes of Pipe and Tubing (NPS System)
_____ 01/D31	MIL-I-22344D (Para. 4.6.3, 4.6.4.)	Insulation, Pipe, Thermal, Fibrous Glass: Alkalinity and Hydrogen-ion Concentration (pH)

DATE: _____

NVLAP LAB CODE: _____

_____ 01/D32	ASTM D2856 (Proc. A excluded)	Open-Cell Content of Rigid Cellular Plastics by the Air Pycnometer
_____ 01/D33	ASTM C1497	Cellulosic Fiber Stabilized Thermal Insulation
_____ 01/D34	ASTM C1574	Standard Guide for Determining Blown Density of Pneumatically Applied Loose-Fill Mineral Fiber Thermal Insulation
_____ 01/D35	ASTM C1374	Determination of Installed Thickness of Pneumatically Applied Loose-Fill Building Insulation
_____ 01/D36	ASTM E605	Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members

FLAMMABILITY

_____ 01/F01	TAPPI T461-OM	Flame Resistance of Treated Paper and Paperboard
_____ 01/F02*	ASTM E84	Surface Burning Characteristics of Building Materials
_____ 01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace at 750 °C
_____ 01/F07*	16 CFR-Part 1209.6	Critical Radiant Flux (Radiant Panel, Cellulosic Fiber)
_____ 01/F08*	16 CFR-Part 1209.7	Smoldering Combustion (Smolder Box, Cellulosic Fiber)
_____ 01/F09*	ASTM C739 (Sec. 10) by ASTM E970	Cellulosic Fiber (Wood Base) Loose-Fill Thermal Insulation (Critical Radiant Flux)
_____ 01/F10*	ASTM C739 (Sec. 14)	Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Smoldering Combustion)
_____ 01/F11	ASTM C1485	Critical Radiant Flux of Exposed Attic Floor Insulation Using an Electric Radiant Heat Energy Source
_____ 01/F12	FMVSS 302	Flammability of Interior Materials
_____ 01/F13	ISO 3795	Road Vehicles, and Tractors and Machinery for Agriculture and Forestry - Determination of Burning Behavior of Interior Materials
_____ 01/F14	SAE J369	Flammability of Polymeric Interior Materials - Horizontal Test Method
_____ 01/F15	ASTM E970	Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source

STRENGTH

_____ 01/S01a	ASTM C165 (Proc. A)	Compressive Properties of Thermal Insulations
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DATE: _____

NVLAP LAB CODE: _____

_____ 01/S01b	ASTM C165 (Proc. B)	Compressive Properties of Thermal Insulations
_____ 01/S02	ASTM C203	Breaking Load and Flexural Properties of Block-Type Thermal Insulation
_____ 01/S03	ASTM C209 (Sec. 10)	Cellulosic Fiber Insulating Board (Transverse Strength)
_____ 01/S04	ASTM C209 (Sec. 11)	Cellulosic Fiber Insulating Board (Deflection at Specific Minimum Load)
_____ 01/S05	ASTM C209 (Sec. 12)	Cellulosic Fiber Insulating Board (Tensile Strength Parallel to Surface)
_____ 01/S06	ASTM C209 (Sec. 13)	Cellulosic Fiber Insulating Board (Tensile Strength Perpendicular to Surface)
_____ 01/S07	ASTM C273	Shear Properties in Flatwise Plane of Flat Sandwich Constructions or Sandwich Cores
_____ 01/S08	ASTM C446	Breaking Load and Calculated Modulus of Rupture of Preformed Insulation for Pipes
_____ 01/S10	ASTM D828	Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus
_____ 01/S11	ASTM D1621 (Proc. A of ASTM Practice D618)	Compressive Properties of Rigid Cellular Plastics (Crosshead Motion)
_____ 01/S15	ASTM C421	Tumbling Friability of Preformed Block-Type Thermal Insulation
_____ 01/S16	ASTM C1101/C1101M	Classifying the Flexibility or Rigidity of Mineral Fiber Blanket and Board Insulation
_____ 01/S17	ASTM C686	Parting Strength of Mineral Fiber Batt- and Blanket-Type Insulation
_____ 01/S18	ASTM C1224 (Sec. 9.5)	Reflective Insulation for Building Applications

THERMAL RESISTANCE

_____ 01/T01*	ASTM C177	Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus
_____ 01/T04*	ASTM C236	Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box
_____ 01/T05	ASTM C335	Steady-State Heat Transfer Properties of Horizontal Pipe Insulation
_____ 01/T06*	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
_____ 01/T09	ASTM C653	Thermal Resistance of Low-Density Blanket-Type Mineral Fiber Insulation
_____ 01/T10	ASTM C687	Thermal Resistance of Loose-Fill Building Insulation

DATE: _____

NVLAP LAB CODE: _____

_____ 01/T11*	ASTM C976	Thermal Performance of Building Assemblies by Means of a Calibrated Hot Box
_____ 01/T12	ISO 8302	Thermal Insulation - Determination of Steady-State Thermal Resistance and Related Properties - Guarded Hot Plate Apparatus
_____ 01/T13	ASTM C1363	Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus
_____ 01/T14	ASTM C1114	Steady-State Thermal Transmission Properties by Means of the Thin-Heater Apparatus
_____ 01/T15	ASTM C1303	Estimating the Long-Term Change in the Thermal Resistance of Unfaced Rigid Closed-Cell Plastic Foams by Slicing and Scaling Under Controlled Laboratory Conditions

RELATED MATERIAL PROPERTIES

_____ 01/V02	TAPPI T419	Starch in Paper
_____ 01/V03	TAPPI T487	Fungus Resistance of Paper and Paperboard
_____ 01/V04	ASTM E96	Water Vapor Transmission of Materials
_____ 01/V05	ASTM C739 (Sec. 11)	Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Fungi Resistance)
_____ 01/V06	ASTM C739 (Sec. 15)	Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Starch)
_____ 01/V07	ASTM C1104/C1104M	Water Vapor Sorption of Unfaced Mineral Fiber Insulation
_____ 01/V08	ASTM C1338	Determining Fungi Resistance of Insulation Materials and Facings
_____ 01/V09	ASTM C1371	Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers
_____ 01/V10	ASTM C390	Sampling and Acceptance of Thermal Insulation Lots
_____ 01/V11	ASTM C1335	Measuring Non-Fibrous Content of Man-Made Rock and Slag Mineral Fiber Insulation
_____ 01/V12	ASTM C739 (Sec. 13)	Cellulosic Fiber Loose-Fill Thermal Insulation (Odor Emissions)
_____ 01/V13	ASTM C1304	Assessing the Odor Emission of Thermal Insulation Materials
_____ 01/V14	ASTM C1304	Assessing the Odor Emission of Thermal Insulation Materials

DATE: _____

NVLAP LAB CODE: _____

_____ 01/V15	ASTM C1313	Sheet Radiant Barriers for Building Construction Applications
_____ 01/V16	ASTM C1549	Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer
_____ 01/V17	ASTM C1149	Self-Supported Spray Applied Cellulosic Thermal Insulation
_____ 01/V18	ASTM E759	Effect of Deflection on Sprayed Fire-Resistive Material Applied to Structural Members
_____ 01/V19	ASTM E859	Air Erosion of Sprayed Fire-Resistive Materials (SFRMs) Applied to Structural Members
_____ 01/V20	ASTM E736	Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members
_____ 01/V21	ASTM C1258	Elevated Temperature and Humidity Resistance of Vapor Retarders for Insulation
_____ 01/V22	ASTM C1224	Reflective Insulation for Building Applications

CANADIAN STANDARDS (SPECIFICATIONS)

_____ 01/W01	CAN/CGSB-51.2-M88	Thermal Insulation, Calcium Silicate, for Piping, Machinery and Boilers
_____ 01/W02	CAN/CGSB-51.9-92	Mineral Fibre Thermal Insulation for Piping and Round Ducting
_____ 01/W03	CAN/CGSB-51.10-92	Mineral Fibre Board Thermal Insulation
_____ 01/W04	CAN/CGSB-51.11-92	Mineral Fibre Thermal Insulation Blanket
_____ 01/W05a	CAN/ULC-S702-97 (Secs. 7.2.1-7.2.7; 7.2.12; 7.2.13)	Mineral Fibre Thermal Insulation for Buildings; Preformed Mineral Fibre Insulation Types 1, 2, and 3 (excludes boards and sheets)
_____ 01/W05b	CAN/ULC-S702-97 (Secs. 7.3.1; 7.3.3; 7.3.4; 7.3.7)	Mineral Fibre Thermal Insulation for Buildings; Loose Fill Mineral Fibre Insulation Type 5
_____ 01/W06	CAN/ULC-S770-00	Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams
_____ 01/W07	CAN/ULC-S703-01 (excludes Sec. 5.2.3, 6.4.3, 6.4.9.2)	Cellulose Fibre Insulation (CFI) for Buildings
_____ 01/W08	CAN/ULC-S130-M87	Ignition Resistance of Loose Fill Insulation (Cigarette Method)

DATE :

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**THERMAL INSULATION MATERIALS
TEST INSTRUMENT IDENTIFICATION**

For each test method listed below for which you are requesting accreditation, provide the name of the manufacturer and model of *one representative instrument* which the assessor may closely examine during the on-site visit. Also indicate the total number of like or similar instruments used to conduct this test.

NVLAP Code	Designation	Instrument	Manufacturer	Model	Number of Similar Instruments
01/D12	ASTM C411	Hot Pipe	_____	_____	_____
		Hot Plate	_____	_____	_____
		Temperature Measurement/ Recording	_____	_____	_____
01/D26	16 CFR- Part 1209.4	Blower/Cylone	_____	_____	_____
01/D27	ASTM C739 (Sec. 8)	Shaker Apparatus	_____	_____	_____
		Blower Controls	_____	_____	_____
01/F05	ASTM E136	Tube Furnace	_____	_____	_____
01/F07	16 CFR-Part 1209.6	Radiant Panel	_____	_____	_____
01/F09	ASTM C739 (Sec. 10)	Flux Meter	_____	_____	_____
		Pyrometer	_____	_____	_____

DATE :

NVLAP LAB CODE:

NVLAP Code	Designation	Instrument	Manufacturer	Model	Number of Similar Instruments
01/S01-S11	See test method selection list	Testing Machine	_____	_____	_____
		Load Cells	_____	_____	_____
01/T01	ASTM C177	Guarded Hot Plate:	_____	_____	_____
		Apparatus Manufacturer	_____	_____	_____
		Thickness Measurement (dial gage, potentiometer, etc.)	_____	_____	_____
		Power Measurement (wattmeter, etc.)	_____	_____	_____
		Temperature Measurement/Recording	_____	_____	_____
		Specimen Size Thickness Range Metered Area	_____ _____ _____	_____	_____
01/T12	ISO 8302	Guarded Hot Plate:	_____	_____	_____
		Apparatus Manufacturer	_____	_____	_____
		Thickness Measurement (dial gage, potentiometer, etc.)	_____	_____	_____
		Power Measurement (wattmeter, etc.)	_____	_____	_____
		Temperature Measurement/Recording	_____	_____	_____

DATE :

NVLAP LAB CODE:

NVLAP Code	Designation	Instrument	Manufacturer	Model	Number of Similar Instruments
01/T12 (cont'd)	ISO 8302	Specimen Size _____ Thickness Range _____ Metered Area _____ Mode of Operation (one-sided or two-sided) _____			
01/T13	ASTM C1363	Hot Box : Apparatus Manufacturer _____ Power Measurement (wattmeter, etc.) _____ Temperature Measurement/ Recording _____ Orientation _____ Specimen Size _____ Thickness Range _____ Metered Area _____			
01/T05	ASTM C335	Horizontal Pipe Tester: Apparatus Manufacturer _____ Power Measurement (wattmeter, etc.) _____ Temperature Measurement/Recording _____ Type _____			

DATE :

NVLAP LAB CODE:

NVLAP Code	Designation	Instrument	Manufacturer	Model	Number of Similar Instruments
01/T05 (continued)	ASTM C335	Nominal Pipe Size _____ Specimen Length _____ Metered Length _____			
01/T11	ASTM C976	Calibrated Hot Box : Apparatus Manufacturer _____ Power Measurement (wattmeter, etc.) _____ Temperature Measurement/ Recording _____ Orientation _____ Specimen Size _____ Thickness Range _____			
01/T06	ASTM C518	Heat Flow Meter: Apparatus Manufacturer _____ Thickness Measurement (dial gage, potentiometer, etc.) _____ Power Measurement (wattmeter, etc.) _____ Temperature Measurement/ Recording _____ Specimen Size _____ Thickness Range _____ Metered Area _____			

DATE :

NVLAP LAB CODE:

NVLAP Code	Designation	Instrument	Manufacturer	Model	Number of Similar Instruments
01/T10	ASTM C687	Loose-Fill Heat Flow Apparatus:			
		Apparatus Manufacturer	_____	_____	_____
		Blowing Machine	_____	_____	
		Temperature Measurement/ Recording	_____	_____	_____

Specimen Conditioning/Exposure Equipment Used With NVLAP Tests:

Apparatus Manufacturer _____

Conditioned Volume _____

Temperature Range _____

Humidity Range _____

Describe any of the above instruments which are special, modified, or custom designed.
