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## THERMAL INSULATION MATERIALS TEST METHOD SELECTION LIST

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**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.

<b>NVLAP Test Method Code</b>	<b>Test Method Designation</b>	<b>Short Title</b>
<b>CORROSIVENESS</b>		
_____ 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
<b>MASS, DENSITY, AND DIMENSIONAL STABILITY</b>		
_____ 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)

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_____ 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)

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_____ 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
_____ 01/D37	RDS 100-03	Method for Determining the Resistance to Settling of Thermal Insulation Installed in Wall Cavities

**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
_____ 01/F16	ASTM D6413	Flame Resistance of Textiles (Vertical Test)

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_____ 01/F17	ASTM E2652	Behavior of Materials in a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750 °C
_____ 01/F18	ISO 1182:2010	Reaction to Fire Tests for Products -- Non-combustibility Test

**STRENGTH**

_____ 01/S01a	ASTM C165 (Proc. A)	Compressive Properties of Thermal Insulations
_____ 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
_____ 01/S19	ASTM C578	Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation (Exception 11.10)
_____ 01/S20	ASTM D5734	Propagation Tearing Strength of Nonwoven Fabrics by Falling-Pendulum (Elmendorf) Apparatus
_____ 01/S21	ASTM D1922	Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method

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**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
_____ 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
_____ 01/T16	ASTM C1373	Standard Practice for Determination of Thermal Resistance of Attic Insulation Systems Under Simulated Winter Conditions
_____ 01/T17	ASTM C1289 (Excluding Sec. 11.6)	Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
_____ 01/T18	ASTM C1126 (Excluding Sec. 13.10)	Standard Specification for Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation
_____ 01/T19	ASTM C591 (Excluding Sec.12.9 & 12.11)	Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation
_____ 01/T20	ASTM C1045	Standard Practice for Calculating Thermal Transmission Properties Under Steady-State Conditions

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**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/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 (Sec. 6.5 - 6.9)	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

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_____ 01/V22	ASTM C1224	Reflective Insulation for Building Applications
_____ 01/V23	ASTM C870	Standard Practice for Conditioning of Thermal Insulating Materials
_____ 01/V24	ASTM C1488	Standard Practice for Simulated Aging of Cellulosic Loose-Fill Insulation
_____ 01/V25	ASTM D6226	Standard Test Method for Open Cell Content of Rigid Cellular Plastics
_____ 01/V26	ASTM C1668	Standard Specifications for Externally Applied Reflective Insulation Systems on Rigid Duct in HVAC Systems
_____ 01/V27	ASTM C1617	Standard Practice for Quantitative Accelerated Laboratory Evaluation of Extraction Solutions Containing Ions Leached from Thermal Insulation on Aqueous Corrosion of Metals
_____ 01/V28	ASTM D618	Standard Practice for Conditioning Plastics for Testing

**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/W06a	CAN/ULC-S770-03	Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams
_____ 01/W06b	CAN/ULC-S770-09	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

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_____ 01/W08	CAN/ULC-S130-M87	Ignition Resistance of Loose Fill Insulation (Cigarette Method)
_____ 01/W09	CAN/ULC-S129-06	Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
_____ 01/W10	CAN/ULC-S702-09 (excl. 5.2.1.6&8, 5.2.2.2, 6.2.8&10, 6.3.4)	Standard for Mineral Fibre Thermal Insulation for Buildings
_____ 01/W10a	CAN/ULC-S702-09 (Secs. 6.2.1-7 and 6.2.10-15)	Mineral Fibre Thermal Insulation for Buildings; Preformed Mineral Fibre Insulation (Types 1, 2, and 3)
_____ 01/W10b	CAN/ULC-S702-09 (Secs. 6.3.1-3 and 6.3.6-8)	Mineral Fibre Thermal Insulation for Buildings; Blowing Wool Thermal Insulation (Type 5)
_____ 01/W11	CAN/ULC-S703-09	Standard for Cellulose Fibre Insulation for Buildings
_____ 01/W12	CAN/ULC-770-09	Standard Test Method for Determination of Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams
_____ 01/W13	CAN/ULC S701-11 (Excluding Sec. 6.11)	Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering
_____ 01/W14	CAN/ULC S705.1-01 (Excludes Sec. 5.5.1, 5.5.5 & 5.5.10)	Spray Applied Rigid Polyurethane Foam, Medium Density - Material - Specification