NVLAP LAB CODE:

THERMAL INSULATION MATERIALS
TEST METHOD SELECTION LIST

Check those test methods for which you are requesting accreditation. The latest version of the test methods must be used (see NVLAP Procedures Sec. 285.32(a)(5)).

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.

	NVLAP Test Method Code	*Test Method Designation*	*Short Title*
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)
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)	Cellulosic Fiber Insulating Board (Water Absorption, 2 hour)
___	01/D05	ASTM C209 (Sec. 14)	Cellulosic Fiber Insulating Board (Water Absorption, 24 hour)
		by D1037 (Sec. 100-106)	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-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 (Wood-Base) Loose-Fill Thermal Insulation (Moisture Vapor Sorption)

___	[1]01/D26*	16 CFR-Part 1209.4	Settled Density (Specimen Container Cellulosic Fiber Loose-Fill)
___	[1]01/D27*	ASTM C739 (Sec. 8)	Cellulosic Fiber (Wood-Base) 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)

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
___	[2]01/F07*	16 CFR-Part 1209.6	Critical Radiant Flux (Radiant Panel, Cellulosic Fiber)
___	[3]01/F08*	16 CFR-Part 1209.7	Smoldering Combustion (Smolder Box, Cellulosic Fiber)
___	[2]01/F09*	ASTM C739 (Sec. 10) by ASTM E970	Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Critical Radiant Flux)
___	[3]01/F10*	ASTM C739 (Sec. 14)	Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation (Smoldering Combustion)

[1] If 01/D26 and 01/D27 are both requested for accreditation, participation in proficiency testing is required for only one of the two test methods.

[2] If 01/F07 and 01/F09 are both requested for accreditation, participation in proficiency testing is required for only one of the two test methods.

[3] If 01/F08 and 01/F10 are both requested for accreditation, participation in proficiency testing is required for only one of the two test methods.

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

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 Heat Flux Measurements and 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

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

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

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/Cyclone			
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			

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	_____	_____	_____

NVLAP Code	Designation	Instrument	Manufacturer	Model	Number of Similar Instruments
01/T12 (continued)	ISO 8302	Specimen Size _____			
		Thickness Range _____			
		Metered Area _____			
		Mode of Operation (one-sided or two-sided) _____			
01/T04	ASTM C236	Guarded 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 _____			

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 _____			

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.

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