



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CTT GROUP
3000 Avenue Boullé
St-Hyacinthe, Quebec, J2S 1H9
Dany Côté-Perreault Phone: 450-778-1870

CONSTRUCTION MATERIALS

Valid To: February 29, 2028

Certificate Number: 7555.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on soils, aggregates, concrete, and asphalt:

<u>Test Method(s):</u>	<u>Test(s):</u>
<u>Animal and Plants (Agriculture)</u>	
<u>Soils:</u>	
ASTM D3080	Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions
<u>Construction</u>	
<u>Geosynthetics:</u>	
ASTM D1203	Test Method for Volatile Loss from Plastic Film Using activated Carbon
ASTM D1593	Specification for Nonrigid Vinyl Chloride Plastic Sheeting (thickness)
ASTM D4218	Standard Test Method for Determination of Carbon Black Content in Polyethylene Compounds by the Muffle-Furnace Technique
ASTM D4355	Standard Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus)
ASTM D4491	Standard Test Method for Water Permeability of Geotextiles by Permittivity (only method A)
ASTM D4533	Standard Test Method for Trapezoid Tearing Strength of Geotextiles
ASTM D4595	Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method
ASTM D4632	Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
ASTM D4716	Test Method for Determining the (In-plane) Floe Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head
ASTM D4751	Standard Test Method for Determining Apparent Opening Size of a Geotextile
ASTM D4833	Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
ASTM D4884	Standard Test Method for Strength of Sewn or Thermally Bonded Seams of Geotextiles
ASTM D4885	Standard Test Method for Determining Performance Strength of Geomembranes by the Wide Strip Tensile Method
ASTM D5199	Standard Test Method for Measuring the Nominal Thickness of Geosynthetics
ASTM D5261	Standard Test Method for Measuring Mass per Unit Area of Geotextiles

<u>Test Method(s):</u>	<u>Test(s):</u>
ASTM D5321	Standard Test Method for Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method. Only for: Procedure A and B
ASTM D5322	Standard Practice for Immersion Procedures for Evaluating the Chemical Resistance of Geosynthetics to Liquids
ASTM D5397	Standard Test Method for Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant Tensile Load Test
ASTM D5514	Standard Test Method for Large Scale Hydrostatic Puncture Testing of Geosynthetics
ASTM D5596	Standard Test Method for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics
ASTM D5617	Standard Test Method for Multi-Axial Tension Test for Geosynthetics
ASTM D5721	Standard Practice for Air-Oven Aging of Polyolefin Geomembranes
ASTM D5747	Standard Practice for Tests to Evaluate the Chemical Resistance of Geomembranes to Liquids
ASTM D5884	Standard Test Method for Determining Tearing Strength of Internally Reinforced Geomembranes
ASTM D5885	Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by High- Pressure Differential Scanning Calorimetry
ASTM D5887	Standard Test Method for Measurement of Index Flux Through Saturated Geosynthetic Clay Liner Specimens Using a Flexible Wall Permeameter
ASTM D5890	Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners
ASTM D5891	Standard Test Method for Fluid Loss of Clay Component of Geosynthetic Clay Liners
ASTM D5993	Standard Test Method for Measuring Mass per Unit of Geosynthetic Clay Liners
ASTM D5994	Standard Practice for Measuring Core Thickness of Textured Geomembrane
ASTM D6241	Standard Test Method for the Static Puncture Strength of Geotextiles and Geotextile- Related Products Using a 50-mm Probe
ASTM D6243	Standard Test Method for Determining the Internal and Interface Shear Resistance of Geosynthetic Clay Liner by the Direct Shear Method
ASTM D6364	Standard Test Method for Determining the Short-Term Compression Behavior of Geosynthetics
ASTM D6392	Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Methods
ASTM D6496	Standard Test Method for Determining Average Bonding Peel Strength Between the Top and Bottom Layers of Needle-Punched Geosynthetic Clay Liners
ASTM D6567	Standard Test Method for Measuring the Light Penetration of a Turf Reinforcement Mat (TRM)
ASTM D6574	Test Method for Determining the (In-Plane) Hydraulic Transmissivity of a Geosynthetic by Radial Flow
ASTM D6637	Standard Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method
ASTM D6693	Standard Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes
ASTM D6707	Standard Specification for Circular-Knit Geotextile for Use in Subsurface Drainage Applications

<u>Test Method(s):</u>	<u>Test(s):</u>
ASTM D6768	Standard Test Method for Tensile Strength of Geosynthetic Clay Liners
ASTM D6992	Standard Test Method for Accelerated Tensile Creep and Creep-Rupture of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method
ASTM D7003	Test Method for Strip Tensile Properties of Reinforced Geomembranes
ASTM D7004	Test Method for Grab Tensile Properties of Reinforced Geomembranes
ASTM D7005	Test Method for Determining the Bond Strength (Ply Adhesion) of Geocomposites
ASTM D7179	Determining Geonet Breaking Force
ASTM D7238	Standard Test Method for Effect of Exposure of Unreinforced Polyolefin Geomembrane Using Fluorescent UV Condensation Apparatus
ASTM D7272	Standard Test Method for Determining the Integrity of Seams Used in Joining Geomembranes by Pre-manufactured Taped Methods
ASTM D7275	Standard Test Method for Tensile Properties of Bituminous Geomembranes (BGM)
ASTM D7361	Standard Test Method for Accelerated Compressive Creep of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method
ASTM D7466	Standard Test Method for Measuring the Asperity Height of Textured Geomembrane
ASTM D7737	Standard Test Method for Individual Geogrid Junction Strength
ASTM D7747	Standard Test Method for Determining Integrity of Seams Produced Using Thermo- Fusion Methods for Reinforced Geomembranes by the Strip Tensile Method
BNQ 7009-210	Geotextiles Used in Road Engineering – Classification, Characteristics and Test Methods
CAN/CGSB 148.1-10	Geotextiles - Filtration Opening Size
CAN/CGSB 148.1-2	Mass per Unit Area (geotextiles and geomembranes)
CAN/CGSB 148.1-3	Thickness of Geotextiles
CAN/CGSB 148.1-4	Geotextiles - Normal Water Permeability Under No Compressive Load
CAN/CGSB 148.1-7.3	Grab Tensile Test for Geotextiles
ISO 10319	Geotextiles - Wide-width tensile test (as per NF EN ISO 10319)
ISO 11058	Geotextiles and geotextile-related products -- Determination of water permeability characteristics normal to the plane, without load
ISO 12236	Geotextiles and geotextile-related products - Static puncture test (CBR test) (as per NF EN ISO 12236)
ISO 12956	Geotextiles and geotextile-related products - Determination of the characteristic opening size (as per NF EN ISO 12956)
ISO 12958	Geotextiles and geotextile-related products -- Determination of water flow capacity in their plane
ISO 13438	Geotextiles and geotextile-related products - Screening test method for determining the resistance to oxidation (only for Method A)
ISO 9863-1	Geosynthetics-Determination of thickness at specified pressures-Part 1: Single layers (only at 2kPa)
ISO 9864	Geotextiles -- Determination of mass per unit area
NF P84-507	Geomembrane Testing - Determination of the Static Punching Resistance of Geomembranes and Geomembrane Waterproofing Devices - Case of the

<u>Test Method(s):</u>	<u>Test(s):</u>
	Unsupported Cylindrical Punch
ASTM D8117	Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by Differential Scanning Calorimetry
<u>Construction Materials</u>	
<u>Insulating Materials:</u>	
ASTM C203	Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
ASTM D3574	Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation ("Test E" only)
<u>Roof Coverings:</u>	
ASTM D4434	Standard Specification for Poly (Vinyl Chloride) Sheet Roofing
ASTM D4869	Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing (only for: Tear, Pliability, Loss on Heating, Liquid water transmission, Breaking Strength, dimensional stability, width)
ASTM D5323	Standard Practice for Determination of 2 % Secant Modulus for Polyethylene Geomembranes
ASTM D5635	Standard Test Method for Dynamic Puncture Resistance of Roofing Membrane Specimens
EN 12311-1	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing - Determination of tensile properties
ICC-ES AC48	Acceptance Criteria For Roof Underlayment for Use in Severe Climate Areas
<u>Vapour Barriers, Water Proofing Membranes:</u>	
ASTM C794	Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants
ASTM D5385	Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes
ASTM D779	Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method
CAN/CGSB-51.33	Vapour Barrier Sheet, excluding Polyethylene, for Use in Building Construction
CAN/CGSB-51.34	Polyethylene Sheet Vapour Barrier for Buildings (except for ASTM 2178)
ICC-ES AC38	Acceptance Criteria for Water-Resistive Barriers - Polymeric-Based Barriers



Accredited Laboratory

A2LA has accredited

CTT GROUP

Saint-Hyacinthe, Quebec

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 31st day of August 2026.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7555.01
Valid to February 29, 2028

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.