



# Construction Materials Testing Services

From the planning to the final phase of a project, quality ranks as a top priority. **Atlantic Testing Laboratories (ATL)** offers diverse services to determine the quality of construction materials utilized in your projects.

## Services

**Soil Testing and Inspection:** ATL monitors lift thickness and moisture/compaction for compliance with project plans and specifications. Laboratory testing, including gradation analysis and laboratory compaction, is performed at ATL's accredited facilities.

### Field-Tests

- ◆ In-Place Field Density Test with the Nuclear Gauge
- ◆ In-Place Water Content of Soil and Rock with the Nuclear Gauge Method
- ◆ In-Place Field Density Test with the Sand Cone Method

### Laboratory Tests

- ◆ Moisture Content
- ◆ Particle Size Analysis
- ◆ Laboratory Compaction Tests
- ◆ Atterberg Limits

**Concrete Testing and Inspection:** Certified technicians perform field and laboratory testing of concrete mixtures to monitor conformance with project plans and specifications and approved mix designs. Tests for slump, air content, unit weight, temperature, and compressive strength are performed in accordance with ASTM standards.



### Freshly Mixed Concrete Field-Tests

- ◆ ASTM C 31 Making and Curing Concrete Test Specimens
- ◆ ASTM C 138 Concrete Unit Weight and Yield Checks
- ◆ ASTM C 143 Slump Test
- ◆ ASTM C 172 Sampling Fresh Concrete
- ◆ ASTM C 173 Air Entrainment Test (Volumetric Method)
- ◆ ASTM C 231 Air Entrainment Test (Pressure Method)
- ◆ ASTM C 1064 Temperature of Fresh Concrete



**Masonry Testing and Inspection:** ATL conducts compressive strength tests (ASTM C 39, 140, 1019, and 1314) and monitors the placement and curing procedures of masonry for accordance with applicable codes and specifications.

**Fireproof Testing and Inspection:** Sprayed fire-resistive materials (SFRM) applied to structural elements and decks are tested for thickness, density, and cohesive/adhesive bond strength. Additionally, ATL can monitor substrate surface preparation and SFRM application.

ATL is a full-service firm offering a comprehensive line of technical support services. These include special inspection services, subsurface investigations, water-based investigations, geotechnical engineering, pavement engineering, nondestructive testing, stormwater pollution prevention planning, and surveying from our 11 offices.

**For more information, contact:**

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*Think Quality*