



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

RINER ENGINEERING, INC.
4641 Kennedy Commerce Drive
Houston, TX 77032
David Cross Phone: 281 469 3347

GEOTECHNICAL

Valid To: August 31, 2024

Certificate Number: 2718.02

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with the A2LA R209 – Specific Requirements for Harris County/Houston, TX: Geotechnical Engineering Testing Laboratory Accreditation Program), accreditation is granted to this laboratory to perform the following tests under the ASTM recommended practice D3740:

<u>Test Method:</u>	<u>Test Description:</u>
ASTM D558	Moisture-Density Relations of Soil-Cement Mixtures
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft ³ (600 kN-m/m ³))
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D1140	Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft ³ (2,700 kN-m/m ³))
ASTM D1633	Compressive Strength of Molded Soil-Cement Cylinders
ASTM D1883	CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM D2166	Unconfined Compressive Strength of Cohesive Soil
ASTM D2216	Water Content of Soil, Rock and Soil-Aggregate Mixtures
ASTM D2435	One-Dimensional Consolidation Properties of Soils
ASTM D2487	Classification of Soils for Engineering Purposes Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488	Description and Identification of Soils (Visual-Manual Procedures)
ASTM D2850	Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils
ASTM D3282	Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
ASTM D4221	Dispersive Characteristics of Clay Soil by Double Hydrometer
ASTM D4318	Liquid Limit, Plastic Limit and Plasticity Index of Soils
ASTM D4546	One-Dimensional Swell-Settlement Potential of Cohesive Soils
ASTM D4643	Determination of Water (Moisture) Content of Soil by the Microwave Oven Method
ASTM D4718	Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D4972	pH of Soils

<u>Test Method:</u>	<u>Test Description:</u>
ASTM D6572	Determining Dispersive Characteristics of Clayey Soils by the Crumb Test
ASTM D6913/D6913M	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D6938 ¹	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
ASTM G57	Method for Measurement of Soil Resistivity Using the Wenner Four-Electrode Method
ASTM G187	Method for Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method
TEX-103-E	Determining Moisture Content in Soil Materials
TEX-104-E	Determining Liquid Limit of Soils
TEX-105-E	Determining Plastic Limit of Soils
TEX-106-E	Calculating the Plasticity Index of Soil
TEX-108-E	Determining the Specific Gravity of Soils
TEX-110-E	Particle Size Analysis of Soils
TEX-111-E	Determining the Amount of Material in Soils finer than 75 µm (No. 200) Sieve

¹ This laboratory performs field testing activities for these tests.





Accredited Laboratory

A2LA has accredited

RINER ENGINEERING, INC.

Houston, TX

for technical competence in the field of

Geotechnical 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 14th day of July 2022.

A blue ink signature of Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2718.02
Valid to August 31, 2024