

# Hellenic Accreditation System



Annex F1/1 to the Certificate No. **1316**

## SCOPE of ACCREDITATION

of the

**Testing Laboratory**

of

**“GEO STAND COMPANY OF GEOTECHNICAL WORKS – SOIL INVESTIGATIONS AND ASSOCIATES S.A.”**

Materials / Products to be tested	Type of test / Properties to be measured	Applied methods / Techniques to be used
Physical testing		
Soil samples	1. Geotechnical investigation and testing - Laboratory testing of soil - Part 1: Determination of water content	ΕΛΟΤ EN ISO 17892-1:2014
	2. Geotechnical investigation and testing - Laboratory testing of soil - Part 2: Determination of bulk density	ΕΛΟΤ EN ISO 17892-2:2014
	3. Geotechnical investigation and testing - Laboratory testing of soil - Part 3: Determination of particle density – Pycnometer method	ΕΛΟΤ EN ISO 17892-3:2015
	4. Geotechnical investigation and testing - Laboratory testing of soil - Part 4: Determination of particle size distribution	ΕΛΟΤ EN ISO 17892-4:2016
	5. Geotechnical investigation and testing - Laboratory testing of soil - Part 12: Determination of liquid and plastic limits	ΕΛΟΤ EN ISO 17892-12:2018/ A1:2021
Aggregates	1. Tests for general properties of aggregates - Part 2: Methods for reducing laboratory samples	ΕΛΟΤ EN 932-2:1999

Materials / Products to be tested	Type of test / Properties to be measured	Applied methods / Techniques to be used
	2. Tests for geometrical properties of aggregates - Part 1: Determination of particle size distribution - Sieving method	EAOT EN 933-1:2012
	3. Tests for mechanical and physical properties of aggregates - Part 6: Determination of particle density and water absorption	EAOT EN 1097-6:2013
	4. Tests for geometrical properties of aggregates - Part 8: Assessment of fines - Sand equivalent test	EAOT EN 933-8:2012+A1:2015
	5. Tests for geometrical properties of aggregates - Part 9: Assessment of fines - Methylene blue test	EAOT EN 933-9:2009+A1:2013
Fresh concrete	1. Testing fresh concrete - Part 1: Sampling and common apparatus	EAOT EN 12350-1:2019
	2. Testing fresh concrete - Part 2: Slump test	EAOT EN 12350-2:2019
Hardened concrete	1. Testing hardened concrete - Part 2: Making and curing specimens for strength tests	EAOT EN 12390-2:2019
Bituminous mixtures	1 Bituminous mixtures - Test methods - Part 1: Soluble binder content	EAOT EN 12697-1:2020
	2. Bituminous mixtures - Test methods - Part 5: Determination of the maximum density	EAOT EN 12697-5:2019
<b>Mechanical Testing</b>		
Soil samples	1. Geotechnical investigation and testing - Laboratory testing of soil - Part 5: Incremental loading oedometer test	EAOT EN ISO 17892-5:2017
	2. Geotechnical investigation and testing - Laboratory testing of soil - Part 7: Unconfined compression test	EAOT EN ISO 17892-7:2018
	3. Geotechnical investigation and testing - Laboratory testing of soil - Part 9: Consolidated triaxial compression tests on water saturated soils	EAOT EN ISO 17892-9:2018
	4. Geotechnical investigation and testing - Laboratory testing of soil - Part 10: Direct shear tests	EAOT EN ISO 17892-10:2018
	5. Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft <sup>3</sup> (2,700 kN-m/m <sup>3</sup> ))	ASTM D1557-12(2021)
	6. Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils	ASTM D1883-16
In place soil tests	1. Plate load test	E 106 – 86, §4
	2. In place determination of density by the sand cone method	E 106 – 86, §2
	3. Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	ASTM D6938-17ae1

Materials / Products to be tested	Type of test / Properties to be measured	Applied methods / Techniques to be used
Rock specimens	1. Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19
	2. Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012-14e1 (method C)
	3. Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications	ASTM D5731-16
Aggregates	1. Tests for mechanical and physical properties of aggregates - Part 2: Methods for the determination of resistance to fragmentation – Los Angeles test	EAOT EN 1097-2:2020
	2. Tests for mechanical and physical properties of aggregates - Part 1: Determination of the resistance to wear (micro-Deval)	EAOT EN 1097-1:2011
	3. Tests for thermal and weathering properties of aggregates - Part 2: Magnesium sulfate test	EAOT EN 1367-2:2010
Hardened concrete	1. Testing hardened concrete - Part 3: Compressive strength of test specimens	EAOT EN 12390-3:2019
	2. Standard Test Method for Obtaining and Testing Drilled Cores	ASTM C42/C42M-20
	3. Standard Test Method for Rebound Number of Hardened Concrete	ASTM C805/805M-18
Bituminous mixtures	1. Bituminous mixtures - Test methods - Part 34: Marshall test	EAOT EN 12697-34:2020
	2. Bituminous mixtures - Test methods - Part 30: Specimen preparation by impact compactor	EAOT EN 12697-30:2019

Site of assessment: **Permanent laboratory premises, Kalimnou 16, 11251, Athens**

Approved signatory: **G. Vatsellas**

The Accreditation Certificate No. **1316**, according to ELOT EN ISO/IEC 17025:2017, is valid until 18.10.2026.

Athens, 19.10.2022

Christos Nestoras  
CEO of ESYD