Hellenic Accreditation System

Annex F1/2 to the Certificate No. **1316**-2

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 +A1:2022
	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+A2:2022
Aggregates	1. Tests for general properties of aggregates - Part 2: Methods for reducing laboratory samples	ΕΛΟΤ EN 932-2:1999
	2. Tests for geometrical properties of aggregates - Part 1: Determination of particle size distribution - Sieving method	ΕΛΟΤ EN 933-1:2012
	3. Tests for mechanical and physical properties of aggregates - Part 6: Determination of particle density and water absorption	ΕΛΟΤ EN 1097-6:2022

Materials / Products to be tested	Type of test / Properties to be measured	Applied methods / Techniques to be used
	4. Tests for geometrical properties of aggregates - Part 8: Assessment of fines - Sand equivalent test	ΕΛΟΤ EN 933-8:2012+A1:2015
	5. Tests for geometrical properties of aggregates - Part 9: Assessment of fines - Methylene blue test	ΕΛΟΤ EN 933-9:2022
Fresh concrete	1. Testing fresh concrete - Part 1: Sampling and common apparatus	ΕΛΟΤ EN 12350-1:2019
	2. Testing fresh concrete - Part 2: Slump test	ΕΛΟΤ EN 12350-2:2019
Hardened concrete	1. Testing hardened concrete - Part 2: Making and curing specimens for strength tests	ΕΛΟΤ EN 12390-2:2019
Bituminous mixtures	1 Bituminous mixtures - Test methods - Part 1: Soluble binder content	ΕΛΟΤ EN 12697-1:2020
	2. Bituminous mixtures - Test methods - Part 5: Determination of the maximum density	ΕΛΟΤ EN 12697-5:2019
Mechanical Testing		
Soil samples	1. Geotechnical investigation and testing - Laboratory testing of soil - Part 5: Incremental loading oedometer test	ΕΛΟΤ EN ISO 17892-5:2017
	2. Geotechnical investigation and testing - Laboratory testing of soil - Part 7: Unconfined compression test	ΕΛΟΤ EN ISO 17892-7:2018
	3. Geotechnical investigation and testing - Laboratory testing of soil - Part 9: Consolidated triaxial compression tests on water saturated soils	ΕΛΟΤ EN ISO 17892-9:2018
	4. Geotechnical investigation and testing - Laboratory testing of soil - Part 10: Direct shear tests	ΕΛΟΤ EN ISO 17892-10:2018
	5. Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3))	ASTM D1557-12(2021)
	6. Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils	ASTM D1883-21
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
Rock specimens	1. Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19

Materials / Products to be tested	Type of test / Properties to be measured	Applied methods / Techniques to be used
	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	ΕΛΟΤ EN 1097-2:2020
	2. Tests for mechanical and physical properties of aggregates - Part 1: Determination of the resistance to wear (micro-Deval)	ΕΛΟΤ EN 1097-1:2011
	3. Tests for thermal and weathering properties of aggregates - Part 2: Magnesium sulfate test	ΕΛΟΤ EN 1367-2:2010
Hardened concrete	1. Testing hardened concrete - Part 3: Compressive strength of test specimens	ΕΛΟΤ 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	ΕΛΟΤ EN 12697-34:2020
	2. Bituminous mixtures - Test methods - Part 30: Specimen preparation by impact compactor	ΕΛΟΤ EN 12697-30:2019

Site of assessment: **Permanent laboratory premises, Kalimnou 16, 11251, Athens**
Approved signatory: **G. Vatsellas**

This Scope of Accreditation replaces the previous one dated 19.10.2022.
The Accreditation Certificate No. **1316**-2**,** according to ELOT EN ISO/IEC 17025:2017, is valid until 18.10.2027.

Athens, 29.12.2023

Christos Nestoras
CEO of ESYD