Hellenic Accreditation System

Annex F1/14 to the Certificate No. **850**-4

SCOPE of ACCREDITATION

of the

Testing Laboratory

of

"NAMA LAB. - Laboratory for Geotechnical Engineering, Construction Materials & Quality Control S.A."

Tested materials / Products	Types of test / Properties to be measured / Procedures	Applied Standards / Techniques to be used
Physical testing		
Rock-Soil	1. Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216-19
Soil	1. Standard method of sieve analysis of fine and coarse aggregates and Particle size analysis of soils by hydrometer	E105-86/7, E105-86/9
	2. Determination of liquid limit, plastic limit and plasticity index of soils	E105-86/5, E105-86/6
	3. Test for moisture – density relations of soils using 2,5 kg rammer and 305mm drop (Proctor standard method)	E105-86/10
	4. Test for moisture – density relations of soils using 4,54 kg rammer and 457 mm drop (Proctor modified method)	E105-86/11
	5. Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	ASTM D6938-23
Aggregates	1.Tests for geometrical properties of aggregates – Part 1: Determination of particle size distribution-Sieving method	EN 933-1:2012

Tested materials / Products	Types of test / Properties to be measured / Procedures	Applied Standards / Techniques to be used
Aggregates (cont.)	2. Test for geometrical properties of aggregates - Part 3: Determination of particle shape – Flakiness index	EN 933-3:2012
	3. Test for geometrical properties of aggregates– Part 4: Determination of particle shape – shape index	EN 933-4:2008
	4. Tests for geometrical properties of aggregates - Part 6: Assessment of surface characteristics - Flow coefficient of aggregates	EN 933-6 :2023 §8
	5. Tests for geometrical properties of aggregates - Part 9: Assessment of fines - Methylene blue test	EN 933-9:2022
Hardened Concrete	Testing hardened concrete - Part 2: Making and curing specimens for strength tests	EN 12390-2:2019
Bituminous Mixtures	Quantitative extraction of asphalt binder from Hot Mix asphalt	AASHTO T164-22
	Determination of bulk density of bituminous specimens	EN 12697-6:2020
	Determination of the maximum density	EN 12697-5:2018
	Determination of void characteristics of bituminous specimens	EN 12697-8:2018
Mechanical testing		
Rock	1. Determination of the strength by unconfined compression	E103-84/4
	2. Determination of the strength by point load	E103-84/5
Soil	1. Plate load test	E 106-86/4
	2. Test for bearing ratio of laboratory-compacted soils (CBR)	E105-86/12
	3. One dimensional consolidation Test	E105-86/13
	4. Unconfined compressive strength test	E105-86/14
	5. Triaxial compressive strength test on cohesive soils, Unconsolidated-Undrained UU	E105-86/15 **§6.1**
	6. Direct shear test CU	E105-86/16
Hardened Concrete	1. Obtaining, preparing and testing of compressive strength of drilled concrete cores	Greek Concrete Regulation 1997-E7

Tested materials / Products	Types of test / Properties to be measured / Procedures	Applied Standards / Techniques to be used
Hardened Concrete (cont)	2. Determination of compressive strength of concrete specimens	Ministry of Environment, Physical Planning and Public Works, Standard Test Method SK 304"
		EN 12390-3:2019
	3. Standard Test Method for Rebound Number of Hardened Concrete	ASTM C805/805M-18
	4. Testing Concrete – Part 204: Recommendations on the use of electromagnetic converters	BS 1881:Part 204:1988
	5. Standard Test Method for Ultrasonic Pulse Velocity Through Concrete	ASTM C597-22
Bituminous mixtures	Standard Method of Test for Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	AASHTO T245-22
Aggregates	1. Determination of the resistance to wear (micro-Deval)	EN 1097-1:2023 Annex E is excluded
	2. Aggregates for railway ballast Determination of the resistance to wear (Micro –Deval)	EN 1097-1:2023 Annex A
	3. Tests for mechanical and physical properties of aggregates - Part 2: Methods for the determination of resistance to fragmentation by the Los Angeles method	EN 1097-2:2020
	4. Tests for mechanical and physical properties of aggregates - Part 2: Methods for the determination of resistance to fragmentation by the Los Angeles method of railway ballast	EN 1097-2:2020, Annex A
	5. Tests for mechanical and physical properties of aggregates - Part 8: Determination of the polished stone value (PSV) and aggregate abrasion value (AAV)	EN 1097-8:2020
Sampling		
Fresh concrete	Testing fresh concrete - Part 1: Sampling and common apparatus	EN 12350-1:2019

Site of assessment: **Permanent laboratory premises, 7 Asimakopoulou Str, Athens, Greece**
Approved signatories: **N. Sideris, Ch. Stratakos, V. Boukouvalas**

This scope of Accreditation replaces the previous one dated 31.03.2025.
The Accreditation Certificate No. **850**-4, to ELOT EN ISO/IEC 17025:2017, is valid until 05.12.2029.

Athens, 16.04.2025

Konstantinou Evangelos Apostolos
CEO of ESYD