Hellenic Accreditation System

Annex F1C/1 to the Certificate No. **90**-7

SCOPE of ACCREDITATION

of the

Testing Laboratory

of the

Innovation Hub (DKK) of PPC S.A.

Materials/ Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Mechanical tests		
Concrete specimens with dimensions according to the Method "Ministry for the Environment, Physical Planning and Public Works SK-303": 1. Cubes: - 150 X 150 X150 mm - 200 X 200 X200 mm 2. Cylinders: - 100 X 200 mm	Compressive strength test	Specification: HMEPPPW SK-303, SK-304
Concrete specimens with dimensions: Cubes: 150 X 150 X 150 mm	Compressive strength test	ΕΛΟΤ EN 12390-3:2019
Physical tests		
Soil samples	Dry preparation of soil samples	Specification: HMEPPPW* E 105:1986, §1
Soil samples (specimens)	1. Determination of moisture of soil: - Moisture	Specification: HMEPPPW E 105:1986, §2
	2. Determination of moisture – density relation (PROCTOR standard method): - Moisture - Density	Specification: HMEPPPW E 105:1986, §10
Soils	1. Specific gravity of soils/specific gravity	Specification: HMEPPPW E105:1986 §4
	2. Liquid limit	Specification: HMEPPPW E105:1986 §5

Materials/ Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
	3. Determination of plastic limit and plasticity index	Specification: HMEPPPW E105:1986 §6
	4. Sieve analysis of fine and coarse soils (dry method) / Amount of passing material	Specification: HMEPPPW E105:1986 §7
	5. Determination of material of soils finer than the No 200 (75μm) sieve / Amount of passing material	Specification: HMEPPPW E105:1986 §8
Aggregates	1. Determination of materials finer than No 200 (75 μm) sieve in mineral aggregates by washing / Amount of material finer than 75 μm	ASTM C117:2017
	2. Resistance to degradation of coarse aggregates by abrasion and impact in the Los Angeles machine / Amount of loss of weight	ASTM C131/C131M : 2020 ASTM C535: 2016
	3. Reducing field samples of aggregate to testing size	ASTM C702/C702M:2018 ΕΛΟΤ EN 932-2: 2000 Except §7, 12
	4. Determination of particle size distribution - Sieving method	ELOT EN 933-1: 2012
	5. Assessment of fines – Methylene blue test	ELOT EN 933-9:2022
	6. Determination of resistance to fragmentation-Los Angeles Method	ELOT EN 1097-2:2020, except Annex A
	7. Determination of particle density and water absorption of aggregates	ELOT EN 1097-6:2022, §8, 9
Fine aggregates	1. Sieve analysis of fine aggregates / Amount of passing material	ASTM C136/C136M: 2019, §7.3, 8, 9
	2. Determination of specific gravity of fine aggregates / Specific gravity	ASTM C128: 2015, §8, 9, 10.2
	3. Determination of absorption of fine aggregates /Amount of absorbed moisture	ASTM C128: 2015, §8, 9, 10.3
Coarse aggregates	1. Sieve analysis of coarse aggregates/ Amount of passing material	ASTM C136/C136M: 2019, §7.4, 8, 9
	2. Determination of specific gravity of coarse aggregates / Specific gravity	Specification: HMEPPPW SK – 301: 1985 §5, 6, 7.1 ASTM C127: 2015
	3. Determination of absorption of coarse aggregates / Amount of absorbed moisture	Specification: HMEPPPW SK – 301:1985 §5, 6, 7.3 ASTM C127: 2015
Fresh concrete	1. Slump of concrete / Measure of height of specimen	Specification: HMEPPPW SK – 309:1986
	2. Determination of air content of freshly mixed concrete by the pressure method/air percent	ASTM C231/C231M: 2017a
	3. Determination of density (unit weight) of concrete / Unit weight	ASTM C138/C138M: 2017a
	4. Slump test	ΕΛΟΤ EN12350-2:2019

Materials/ Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Concrete specimens	1. Preparation and curing of concrete specimens: - Dimensions - Density	Specification: HMEPPPW SK-303:1985
	2. Making and curing specimens for strength test	ELOT EN 12390-2:2019
	3. Density of hardened concrete	ELOT EN 12390-7:2020, except §6.5
Sampling		
Fresh concrete	Sampling of fresh concrete	ΕΛΟΤ EN12350-1:2019

Site of assessment: **Laboratory permanent premises, 9 Leondariou Str., Kantza, Pallini, Attiki, Greece.**

Approved signatories: **A. Papathanasiou, A. Koukiasa, A. Kontou.**

This Scope of Accreditation replaces the previous one dated 07.09.2023.
The Accreditation Certificate No. **90**-7, to ELOT EN ISO/IEC 17025: 2017, is valid until 02.07.2027.

Athens, 01.07.2024

Christos Nestoras
CEO of ESYD