TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory,

ZEMKA YAPI MALZEMELERİ Zemka Yapı Malzemeleri Zemin Araştırma Lab. Pro. Dan. Müş. Müh. İnş. Taah. Tic. Ltd. Şti.

Yurt Mah. Süleyman Demirel Blv. 71533. Sok. Pembe Köşk Apt. 75/A
01110 ADANA / TURKEY

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by **TURKAK**.

Accreditation Number : **AB-0824-T**

Accreditation Date : **17 March 2015**

Revision Date / Number : **31 March 2020 / 04**

This certificate shall remain in force until **27 June 2023**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

G. Banu MÜDERRİSOĞLU
Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

Annex of the certificate (Page 1/3)

Accreditation Scope

Test
TS EN ISO/IEC 17025
AB-0824-T

ZEMKA YAPI MALZEMELERİ Zemka Yapı Malzemeleri Zemin Araştırma Lab. Pro. Dan. Müş. Müh. İnş. Taah. Tic. Ltd. Şti.

Accreditation Nr: AB-0824-T
Revision Nr: 04 Date: 17.08.2020

As a Testing Laboratory

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Hardened Concrete (Cube)	Compressive Strength of Test Specimens	EN 12390-3
Hardened Concrete (Cylinder)	Compressive strength of Test Specimens	EN 12390-3
Hardened Concrete (Cored Specimens)	Taking, Examining and Testing in Compression	EN 12504-1
Hardened Concrete (Cylinder Cored)	Compressive Strength of Test Specimens	EN 12390-3
Natural Stone	Determination of Uniaxial Compressive Strength	EN 1926
Aggregates	Determination of Particle Size Distribution - Sieving Method	EN 933-1
Aggregates	Determination of Particle Density and Water Absorption of Coarse Aggregates	EN 1097-6
Aggregates	Determination of Particle Density and Water Absorption of Fine Aggregates	EN 1097-6
Aggregates	Determination of Loose Bulk Density and Voids	EN 1097-3
Aggregates	Determination of Resistance to Fragmentation by Los Angeles Test	EN 1097-2
Soils	Determination of Water Content (Oven Drying Method)	EN ISO 17892-1
Soils	Determination of Liquid Limit (Multipoint)	TS 1900-1
Soils	Determining of Plastic Limit and Plasticity Index	TS 1900-1
Soils	Determination of Particle Density (Liquid Pycnometer Method)	EN ISO 17892-3
Soils	Determination of Particle Size Distribution (Sieving Method)	EN ISO 17892-4

Annex of the certificate (Page 2/3)

Accreditation Scope

Test
TS EN ISO/IEC 17025
AB-0824-T

ZEMKA YAPI MALZEMELERİ Zemka Yapı Malzemeleri Zemin Araştırma Lab. Pro. Dan. Müş. Müh. İnş. Taah. Tic. Ltd. Şti.

Accreditation Nr: AB-0824-T

Revision Nr: 04 Date: 17.08.2020

Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Soils	Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (4,5 kilogram rammer)	TS 1900-1
Soils	Test Method for Laboratory Compaction Characteristics of Soil Using Standart Effort (2,5 kilogram rammer)	TS 1900-1
Soils	Determination of Unconfined Compressive Strength	TS 1900-2
Metallic Materials	Determination of Deviation from Nominal Mass Per Metre	EN ISO 15630-1
Metallic Materials	Tensile Testing - (at Room Temperature 20 kN - 600 kN)	EN ISO 6892-1
Metallic Materials	Tensile Testing - (at Room Temperature 20 kN - 600 kN)	EN ISO 15630-1
Metallic Materials	Tensile Testing - Determination of the Upper Yield Strength	EN ISO 6892-1
Metallic Materials	Tensile Testing - Determination of the Percentage Total Extension at Maximum Force	EN ISO 6892-1
Metallic Materials	Tensile Testing - Determination of the Percentage Total Extension at Fracture	EN ISO 6892-1
Metallic Materials	Tensile Testing	EN ISO 15630-1
Fresh Concrete	Sampling	EN 12350-1
Fresh Concrete	Slump test	EN 12350-2
Fresh Concrete	Density	EN 12350-6
Fresh Concrete	Self-Compacting Concrete - Slump-Flow Test	EN 12350-8
Hardened Concrete	Density	EN 12390-7
Hardened Concrete	Depth of Penetration of Water Under Pressure	EN 12390-8

Annex of the certificate (Page 3/3)

Accreditation Scope

TÜRKAK Test TS EN ISO/IEC 17025 AB-0824-T	**ZEMKA YAPI MALZEMELERİ Zemka Yapı Malzemeleri Zemin Araştırma Lab. Pro. Dan. Müş. Müh. İnş. Taah. Tic. Ltd. Şti.** **Accreditation Nr: AB-0824-T** **Revision Nr: 04 Date: 17.08.2020**

Tested Materials / Products	**Name of Test**	**Testing Method (National, International standards, in house methods)**
Soils - Field Testing	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method (Small Cylinder Method for Fine and Medium Grained Soil)	TS 1900-1

End of Scope

G. Banu MÜDERRİSOĞLU
Secretary General