



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.




Banuçel
G. Banu MÜDERRİSOĞLU
Secretary General

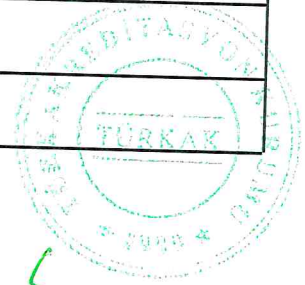
Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

Annex of the certificate (Page 1/3)

Accreditation Scope

| | |
|---|---|
|  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> Test TS EN ISO/IEC 17025 AB-0824-T </div> | 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 | |
| Address: Yurt Mah. Süleyman Demirel Blv. 71533. Sok. Pembe Köşk Apt. 75/A 01110 ADANA/TÜRKİYE | Phone : 0322 239 7929 Fax : 0322 248 9457 E-Mail : info@zemka.com.tr Website : www.zemka.com.tr |

| 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)

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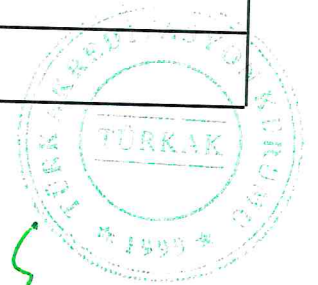


ZEMKA YAPI MALZEMELERİ Zemka Yapı Malzemeleri Zemin Araştırma Lab. Pro.
Dan. Müş. Müh. İnş. Taah. Tic. Ltd. Şti.

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)

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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



Banuyıl
G. Banu MÜDERRİSOĞLU
Secretary General