BOSNA I HERCEGOVINA
BOSNIA AND HERZEGOVINA
INSTITUT ZA AKREDITIRANJE BOSNE I HERCEGOVINE
INSTITUTE FOR ACCREDITATION OF BOSNIA AND HERZEGOVINA

BATA ACCREDITATION

Bilateralni potpisnik EA MLA
Bilateral signatory to EA MLA

Na osnovu člana 9. Zakona o akreditiranju Bosne i Hercegovine izdaje se
In accordance of article 9. of Law on Accreditation of Bosnia and Herzegovina it is issued

CERTIFIKAT O AKREDITACIJI

ACCREDITATION CERTIFICATE

kojim se potvrđuje da
confirming that

GEOLAB d.o.o. Sarajevo –
Laboratorija za ispitivanje fizičkih i mehaničkih parametara tla i stijena
Mustafe Bajića 19
71000, Sarajevo

ispunjava zahtjeve standarda BAS EN ISO/IEC 17025:2018 u pogledu osposobljenosti za izvođenje geomehaničkih ispitivanja tla
complies with requirements of BAS EN ISO/IEC 17025:2018 for competence to carry out geomechanical testing of soil

Detalji o području akreditacije, kao i ostali podaci značajni za akreditaciju, dati su u dodatku, koji čini njen sastavni dio.
Details of accreditation scope, as well as other data relevant for the accreditation, are specified in the Annex, that is its integral part.

Akreditacija je registrirana pod brojem
Accreditation is registered under number

LI – 70 – 01

Prva akreditacija **30.07.2014.**
Initial accreditation

Akreditacija važi do
Accreditation is valid until

29.07.2022.

Sarajevo, 29.09.2020.

M.P.

Potpis ovlaštene osobe
Authorized Signature

1. NAZIV AKREDITIRANOG TIJELA

Geolab d.o.o. Sarajevo -
Laboratorija za ispitivanje fizičkih i mehaničkih parametara tla i stijena

Kontakt informacije laboratorije	Kontakt osoba
Mustafe Bajića 19 71000, Sarajevo	Nermin Kadrić Rukovodilac laboratorije
Tel: 033/425-020	Tel: 033/425-020
Fax: 033/425-021	Fax: 033/425-021
Email: geolab@bih.net.ba	Email: geolab@bih.net.ba

2. STANDARD

BAS EN ISO/IEC 17025:2018

3. PODRUČJE AKREDITACIJE

R.B.	Područje i podpodručje	Opis
1.	LI 7 - Ispitivanja u građevinarstvu LI 7.5 - Geomehanička ispitivanja	

TABELA – DETALJNO PODRUČJE AKREDITACIJE (klasifikacija prema dokumentu **OD 07-40**)

Područje rada:	**LI 7 - Ispitivanja u građevinarstvu**			
Podpodručje rada:	**LI 7.5 - Geomehanička ispitivanja**			
Opis:				
Broj Metode	**Materijali/ proizvodi**	**Vrsta ispitivanja/ Mjerna karakteristika**	**Mjerni opseg**	**Metode/ Specifikacije**
M001	Tlo	Određivanje sadržaja vode	(0-) %	BAS EN ISO 17892-1: 2016
M002		Određivanje zapreminske mase	(1,0 do 3,0) Mg/m³	BAS EN ISO 17892-2: 2016
M003		Određivanje zapreminske mase čvrstih čestica	(2,0 do 3,5) Mg/m³	BAS EN ISO 17892-3: 2017
M004		Određivanje granulometrijskog sastava	(0,001 do 63,000) mm	BAS EN ISO 17892-4:2018
M005		Ispitivanje povećanja opterećenja pomoću oedemetra	(0-10) mm (0-1000) kPa (f 50 i 80) mm	BAS EN ISO 17892-5:2018
M006		Test kompresije sa nespriječenim bočnim širenjem finog sitnozrnog materijala	(0-25) mm (0-2,5) kN (f 38 i 100) mm	BAS EN ISO 17892-7: 2019
M007		Triaksijalni test nedreniranog nekonsolidovanog tla	(0-25) mm (0-2,5) kN (f 38) mm (0-1700) kPa s3	BAS EN ISO 17892-8: 2019

Područje rada:	**LI 7 - Ispitivanja u građevinarstvu**			
Podpodručje rada:	**LI 7.5 - Geomehanička ispitivanja**			
Opis:				
Broj Metode	**Materijali/ proizvodi**	**Vrsta ispitivanja/ Mjerna karakteristika**	**Mjerni opseg**	**Metode/ Specifikacije**
M008		Ispitivanje direktnog smicanja	(0-1000) kN s1 (0-3,0) kN t (f 60 i 100) mm	BAS CEN ISO/TS 17892-10: 2009
M009		Određivanje granica tečenja i plastičnosti	(0-45) mm (0- ∞) % voda	BAS EN ISO 17892-12: 2019

**Metode koje se izvode na terenu i/ili u laboratoriji i na terenu*

Potpis ovlaštenog lica

BOSNA I HERCEGOVINA INSTITUT ZA AKREDITIRANJE BOSNE I HERCEGOVINE SARAJEVO
БОСНА И ХЕРЦЕГОВИНА ИНСТИТУТ ЗА АКРЕДИТОВАЊЕ БОСНЕ И ХЕРЦЕГОВИНЕ САРАЈЕВО

FAKULTA STAVEBNÍ ústav stavebního zkušebnictví

Accredited PT Provider at the SZK FAST
Brno University of Technology
Veveří 95, 602 00 Brno, Czech Republic
szk.fce.vutbr.cz

Z 7008

CERTIFICATE

OF PARTICIPATION IN THE PROFICIENCY TESTING PROGRAM
ZZ 2017/1
Laboratory:

"GEOLAB" d.o.o. Sarajevo
Mustafe Bajića 19, 71000 SARAJEVO BOSNA I HERCEGOVINA
Number of Testing Laboratory **LI-70-01**
ID of Laboratory: 1508

The laboratory took part in the Proficiency Testing Program focused on the evaluation soil properties which was completed on 18th January 2018. The subject of the testing were the following testing procedures:

1. **EN ISO 17892-1 Geotechnical investigation and testing - Laboratory testing of soil - Part 1: Determination of water content,**
2. **EN ISO 17892-3 Geotechnical investigation and testing - Laboratory testing of soil - Part 3: Determination of particle density,**
3. **EN ISO 17892-4 Geotechnical investigation and testing - Laboratory testing of soil - Part 4: Determination of particle size distribution,**
4. **CEN ISO/TS 17892-5 Geotechnical investigation and testing - Laboratory testing of soil - Part 5: Incremental loading oedometer test,**
5. **CEN ISO/TS 17892-7 Geotechnical investigation and testing - Laboratory testing of soil - Part 7: Unconfined compression test on fine-grained soil,**
6. **CEN ISO/TS 17892-10 Geotechnical investigation and testing - Laboratory testing of soil - Part 10: Direct shear tests,**
7. **CEN ISO/TS 17892-12 Geotechnical investigation and testing - Laboratory testing of soil - Part 12: Determination of Atterberg limits,**
8. **EN 13286-2 Unbound and hydraulically bound mixtures - Part 2: Test methods for laboratory reference density and water content -Proctor compaction,**
9. **EN 13286-47 Unbound and hydraulically bound mixtures - Part 47: Test method for the determination of California Bearing ratio, immediate bearing index and linear swelling.**

Laboratory participated in testing methods **No. 1 – 4, 6 and 7.**
The result evaluation of the proficiency testing program was conducted in accordance with ISO 5725-2: Accuracy (trueness and precision) of measurement methods and results. Laboratory proficiency in performing tests was assessed by z-score according to EN ISO/IEC 17043: Conformity assessment - General requirements for proficiency testing.
All tests conducted by this laboratory resulted in z-score values within the limit of 2 and for this reason the proficiency of the laboratory is found **satisfactory.**
A part of this certificate is the "Final Report on the Results of Interlaboratory Comparison - Proficiency Testing Program ZZ 2018/1."

Brno, 18th January 2018

Poskytovatel zkoušení způsobilosti při SZK FAST
Proficiency testing provider at the SZK FAST
Z 7008
Veveří 95
602 00 Brno
Czech Republic
szk.fce.vutbr.cz

doc. Ing. Tomáš Vymazal, Ph.D.
Vedoucí PoZZ

Accreditated PT provider at the SZK FAST
Brno University of Technology
Veveří 95, 602 00 Brno, Czech Republic
szk.fce.vutbr.cz

CERTIFICATE

OF PARTICIPATION IN THE PROFICIENCY TESTING PROGRAM
ZZ 2013/1

Laboratory:

Geolab d.o.o. Sarajevo
Mustafe Bajiča 19, Sarajevo
Number of Testing Laboratory
ID of Laboratory: 376

The laboratory took part in the Proficiency Testing Program focused on the evaluation of soil properties which was completed on 21st January 2014. The subject of the testing were the following testing procedures:

1. **CEN ISO/TS 17892-1 - Determination of water content**
2. **CEN ISO/TS 17892-3 - Determination of particle density - Pycnometer method**
3. **CEN ISO/TS 17892-4 - Determination of particle size distribution**
4. **CEN ISO/TS 17892-5 - Incremental loading oedometer test**
5. **CEN ISO/TS 17892-7 - Unconfined compression test on fine-grained soil**
6. **CEN ISO/TS 17892-10 - Direct shear tests**
7. **CEN ISO/TS 17892-12 - Determination of Atterberg limits**
8. **EN 13286-2 - Proctor compaction**

Out of the range of accreditation Z 7008:

9. **EN 13286-47 - Test method for the determination of California Bearing ratio, immediate bearing index and linear swelling**

The result evaluation of the proficiency testing program was conducted in accordance with **ISO 5725-2**: Accuracy (trueness and precision) of measurement methods and results. Laboratory proficiency in performing tests was assessed by z-score according to **EN ISO/IEC 17043**: Conformity assessment - General requirements for proficiency testing.
All tests conducted by this laboratory resulted in z-score values within the limit of 2 and for this reason the proficiency of the laboratory is found **satisfactory**.
A part of this certificate is the "Final Report on the Results of Interlaboratory Comparison - Proficiency Testing Program ZZ 2013/1."

Poskytovatel zkoušení způsobilosti
při ústavu SZK FAST
www.fce.vutbr.cz/szk
Veveří 95
Brno 602 00
Z 7008

Brno, 21st January 2014

doc. Ing. Tomáš Vymazal, Ph.D.
PTP Coordinator