EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. **318/2025**

Institut technologie a testování betonu, s.r.o.
with registered office Medkova 974/4, Tuřany, 627 00 Brno
Company Registration No. 14098920

for the Testing Laboratory No. **1778**
Testing Laboratory ITTB Brno

Scope of accreditation:

Testing of fresh and hardened concrete, concrete products, concrete prefabricated elements, unbound and hydraulically bound mixtures, aggregates and natural stone, cements, surface finish of concrete structures, concrete pavements, coatings and screed materials to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 4/2024 of 08/01/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **27/06/2030**

Prague: 27/06/2025

Český institut pro akreditaci, o.p.s.
«CAI»

Signed in the Czech original:
Gor Petrosjan on 27/06/2025

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Andrea Muzikářová

Appendix is integral part of
accreditation certificate no.: 318/2025 of 27/06/2025

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

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The laboratory applies a flexible approach to the scope of accreditation.
The current list of activities carried out within the flexible scope is available on the laboratory's website www.ittbbrno.cz in the form of the „List of activities within the flexible scope of accreditation".
The laboratory provides opinions and interpretations of the test results.
The laboratory is qualified to carry out standalone sampling.

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of consistency – slump test	ČSN EN 12350-2; STN EN 12350-2	Fresh concrete	A, D
2*	Determination of air content – pressure method	ČSN EN 12350-7, except cl. 5; STN EN 12350-7, except cl. 5	Fresh concrete	A, B, D
3*	Determination of mass per unit volume	ČSN EN 12350-6; STN EN 12350-6	Fresh concrete	A, D
4*	Determination of consistency – Slump – flow test	ČSN EN 12350-8	Fresh concrete	A, D
5*	Determination of hardness – non-destructive determination of compressive strength	ČSN EN 12504-2; ČSN 73 1373	Hardened concrete	A, D
6*	Testing of bond strength	ČSN 73 6242, Annex B; ČSN EN 1542	Insulation layers, surface finish	A, D
7	Determination of mass per unit volume	ČSN EN 12390-7; STN EN 12390-7	Hardened concrete	A, D
8	Determination of compressive strength of test specimens	ČSN EN 12390-3; STN EN 12390-3	Hardened concrete	A, D
9	Determination of compressive strength of test specimens	ČSN EN 12504-1, except cl. 6; STN EN 12504-1, except cl. 6	Hardened concrete	A, D
10	Determination of flexural strength of test specimens	ČSN EN 12390-5; STN EN 12390-5	Hardened concrete	A, D
11	Determination of absorptivity and moisture content	ČSN 73 1316:1989; STN 73 1316	Hardened concrete	A, D
12	Determination of watertightness	ČSN 73 1321:1987	Hardened concrete	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
13	Determination of resistance to frost	ČSN 73 1322; STN 73 1322	Hardened concrete	A, D
14	Determination of abrasiveness – acc. to Böhme	ČSN 73 1324; ČSN EN 13892-3	Hardened concrete, screed materials	A, D
15	Determination of cement concrete resistance to water and chemical agents	ČSN 73 1326; STN 73 1326	Hardened concrete	A, D
16	Determination of the indirect tensile strength	ČSN EN 12390-6; STN EN 12390-6	Hardened concrete	A, D
17	Determination of depth of penetration of water under pressure	ČSN EN 12390-8; STN EN 12390-8	Hardened concrete	A, D
18	Determination of static modulus of elasticity in compression	ČSN ISO 1920-10; ČSN EN 12390-13; STN EN 12390-13	Hardened concrete	A, D
19	Determination of shape, dimensions and deviations of test specimens and moulds	ČSN EN 12390-1; STN EN 12390-1; ČSN EN 12390-2; STN EN 12390-2	Hardened concrete	A, D
20	Determination of weight	ČSN 73 2045	Concrete products – building components	A, D
21	Determination of dimensions and checks of shape	ČSN 73 0212-5	Concrete products – building components	A, D
22	Determination of dimensions and visual factors	ČSN EN 1338, Annex C, J; STN EN 1338, Annex C, J; ČSN EN 1339, Annex C, J; STN EN 1339, Annex C, J; ČSN EN 1340, Annex C, J; STN EN 1340, Annex C, J	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D
23	Determination of resistance to freezing/thawing	ČSN EN 1338, Annex D; STN EN 1338, Annex D; ČSN EN 1339, Annex D; STN EN 1339, Annex D; ČSN EN 1340, Annex D; STN EN 1340, Annex D	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
24	Determination of absorptivity	ČSN EN 1338, Annex E; STN EN 1338, Annex E; ČSN EN 1339, Annex E; STN EN 1339, Annex E; ČSN EN 1340, Annex E; STN EN 1340, Annex E; ČSN EN 1916, Annex F; ČSN EN 1917, Annex D	Concrete products – concrete paving blocks concrete paving flags concrete kerb units, concrete pipes and fittings made of unreinforced, steel fibre and reinforced concrete concrete manholes and inspection chambers	A, D
25	Determination of indirect tensile strength	ČSN EN 1338, Annex F; STN EN 1338, Annex F	Concrete products – concrete paving blocks	A, D
26	Determination of flexural strength	ČSN EN 1339, Annex F; STN EN 1339, Annex F; ČSN EN 1340, Annex F; STN EN 1340, Annex F	Concrete products – concrete paving blocks, concrete kerb units	A, D
27*	Measurement of slip/skid resistance of a surface – Pendulum test	ČSN EN 13036-4	Roads, runways	A, D
28*	Determination of slip resistance of pedestrian surfaces	ČSN EN 16165, Annex C	Roads	A, D
29	Resistance to freezing/thawing with/without the use of de-icing salts	ČSN EN 13198, Annex A, B; STN EN 13198, Annex A, B	Concrete products – prefabricated concrete products	A, D
30	Determination of abrasiveness by Böhme method	ČSN EN 1338, Annex H; STN EN 1338, Annex H; ČSN EN 1339, Annex H; STN EN 1339, Annex H; ČSN EN 1340, Annex H; STN EN 1340, Annex H	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D
31*	Determination of skid resistance	ČSN EN 1338, Annex I; STN EN 1338, Annex I; ČSN EN 1339, Annex I; STN EN 1339, Annex I; ČSN EN 1340, Annex I; STN EN 1340, Annex I	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
32	Testing of flexural strength and compressive strength	ČSN EN 12190; ČSN EN 1015-11; ČSN EN 13892-2	Hardened mortars, screed materials, surface finish	A, D
33	Determination of flexural strength and compressive strength, fly ash efficiency index	ČSN EN 196-1; ČSN EN 450-1, clause 5.3.2	Cement, fly ash	A, D
34	Determination of mass per unit volume	ČSN EN 1015-10	Hardened mortars	A, D
35	Determination of consistence	ČSN EN 1015-3	Fresh mortar	A, D
36	Determination of particle shape – Shape index	ČSN EN 933-4	Aggregates	A, D
37	Determination of loose bulk density and voids	ČSN EN 1097-3	Aggregates	A, D
38	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1	Aggregates	A, D
39	Determination of particle density and water absorption	ČSN EN 1097-6	Aggregates	A, D
40	Determination of resistance to freezing and thawing	ČSN EN 1367-1; ČSN EN 13450, Annex F	Aggregates	A, D
41	Determination of water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	A, D
42	Sand equivalent test	ČSN EN 933-8 + A1	Aggregates	A, D
43	Assessment of fines – Methylene blue test	ČSN EN 933-9	Aggregates	A, D
44	Determination of compressive strength	ČSN EN 772-1 + A1; STN EN 772-1 + A1	Masonry units	A, D
45	Determination of water absorption due to capillary action and the initial rate of water absorption	ČSN EN 772-11; STN EN 772-11	Masonry units	A, D
46	Determination of dimensions	ČSN EN 772-16; STN EN 772-16	Masonry units	A, D
47	Determination of flatness of faces	ČSN EN 772-20; STN EN 772-20	Masonry units	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
48	Determination of bulk density	ČSN EN 772-13; STN EN 772-13	Masonry units	A, D
49	Determination of bending strength	ČSN EN 772-6; STN EN 772-6	Masonry units	A, D
50	Determination bending strength of side shuttering blocks	ČSN EN 15435, Annex B; STN EN 15435, Annex B	Masonry units	A, D
51	Determination of laboratory reference density and water content – Proctor test	ČSN EN 13286-2, except clause 7.3 and 7.6	Unbound and hydraulically bound mixtures	A, D
52	Determination of compressive strength	ČSN EN 13286-41	Unbound and hydraulically bound mixtures	A, D
53	Determination of workable life	ČSN EN 13286-45	Unbound and hydraulically bound mixtures	A, D
54	Classification of constituents	ČSN EN 933-11	Coarse recycled aggregates	A, D
55	Determination of setting times and soundness	ČSN EN 196-3	Cement	A, D
56	Determination of the influence of extract on the initial setting time	ČSN 1744-6	Cement, aggregates	A, D
57	Concrete surface structure test	ČSN 73 6123-1, Annex A, cl. A.9	Concrete, concrete roads	A, D
58*	Measurement of surface macrotexture depth	ČSN EN 13036-1	Concrete, concrete roads	A, D
59*	Test of watertightness of building structure finish	ČSN 73 2578, IZP ITTB No. 1	Surface finish	A, D
60	Water absorption test	ČSN EN 13369, Annex F; STN EN 13369, Annex F	Concrete products – prefabricated concrete products	A, D
61*	Determination of the thickness of a cement-concrete pavement	ČSN EN 13863-3	Roads, runways	A, D
62*	Determination of consistency – degree of compactibility	ČSN EN 12350-4	Fresh concrete	A, D

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[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[2] if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

[3] degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Fresh concrete sampling	ČSN EN 12350-1 STN EN 12350-1	Fresh concrete
2	Sampling by cored specimen method	ČSN EN 12504-1, except cl. 6; STN EN 12504-1, except cl. 6	Hardened concrete
3	Aggregate sampling	ČSN EN 932-1	Aggregates

1 if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

Explanatory notes:
IZP ITTB - Internal test procedure of ITTB Brno Testing Laboratory

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "