

**The Appendix is an integral part of
Certificate of Accreditation No. 615/2024 of 21/11/2024**

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

Vysoké učení technické v Brně
CAB number 1396, Testing Laboratory of ITBMC FCE BUT Brno
Purkyňova 139, 602 00 Brno

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 <https://www.fce.vutbr.cz/thd> 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 workability – flow table test	ČSN EN 12350-5; STN EN 12350-5	Fresh concrete	A, D
3*	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
4*	Determination of mass per unit volume	ČSN EN 12350-6; STN EN 12350-6	Fresh concrete	A, D
5*	Determination of volume changes	MP VUT no. 6 (Önorm B 3329, cl. 7.3.1)	Fresh concrete	A, D
6*	Determination of bleeding	MP VUT č. 7 (Guideline Merkblatt Weiche Betone)	Fresh concrete	A, D
7*	Determination of consistency - Slump-flow test	ČSN EN 12350-8	Fresh concrete	A, D
8-10	Reserved			
11	Determination of mass per unit volume	ČSN EN 12390-7; STN EN 12390-7	Hardened concrete	A, D
12	Determination of compressive strength of test specimens	ČSN EN 12390-3; STN EN 12390-3	Hardened concrete	A, B, D
13	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
14	Determination of tensile strength of concrete	ČSN 73 1318 Annex 1, 2	Hardened concrete	A, D
15	Determination of flexural strength of test specimens	ČSN EN 12390-5; STN EN 12390-5	Hardened concrete	A, B, D

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16	Determination of absorptivity and moisture content	MP VUT no. 3 (ČSN 73 1316)	Hardened concrete	A, D
17	Determination of watertightness	MP VUT no. 1 (ČSN 73 1321)	Hardened concrete	A, C, D
18	Determination of resistance to frost	ČSN 73 1322	Hardened concrete	A, B, D
19	Determination of abrasiveness – acc. to Böhme	ČSN 73 1324; ČSN EN 13892-3	Hardened concrete, screed materials	A, D
20	Determination resistance to water and chemical agents	ČSN 73 1326; STN 73 1326; MP VUT no. 4 (ČSN 73 1326)	Hardened concrete	A, B, D
21	Determination of the indirect tensile strength	ČSN EN 12390-6; STN EN 12390-6	Hardened concrete	A, D
22	Determination of volume changes	ČSN 73 1320	Hardened concrete	A, D
23	Determination of air void characteristics	ČSN EN 480-11; STN EN 480-11	Hardened concrete	A, D
24	Determination of depth of penetration of water under pressure	ČSN EN 12390-8; STN EN 12390-8	Hardened concrete	A, D
25	Determination of static modulus of elasticity in compression	ČSN ISO 1920-10	Hardened concrete	A, D
26*	Determination of hardness – non-destructive determination of compressive strength	ČSN EN 12504-2; ČSN 73 1373	Hardened concrete	A, D
27*	Determination of compressive strength	ČSN EN 14488-2	Young sprayed concrete	A, D
28	Determination of static modulus of elasticity in compression	ČSN EN 12390-13; STN EN 12390-13	Hardened concrete	A, D
29	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

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30	Determination of flexural strength	ČSN P 73 2452	Hardened concrete, hardened fiber-reinforced concrete	A, D
31	Testing of compressive strength	MP VUT No. 2 (ČSN 73 6131-1, Annex A)	Concrete products – tiles and pavers	A, D
32	Determination of dimensions and visual factors	ČSN EN 1338, Annex C, J; ČSN EN 1339, Annex C, J; ČSN EN 1340, Annex C, J	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D
33	Determination of resistance to freezing/thawing	ČSN EN 1338, Annex D; ČSN EN 1339, Annex D; ČSN EN 1340, Annex D	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D
34	Determination of absorptivity	ČSN EN 1338, Annex E; ČSN EN 1339, Annex E; ČSN 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
35	Determination of load capacity at peak compression and vertical load capacity	ČSN EN 1916, Annex C; ČSN EN 1917, Annex A, B	Concrete products - concrete pipes and fittings, unreinforced, steel fibre and reinforced, concrete manholes and inspection chambers	A, D
36	Determination of loading of manhole steps	ČSN EN 1917, Annex E	Concrete products - concrete manholes and inspection chambers	A, D
37	Determination of indirect tensile strength	ČSN EN 1338, Annex F	Concrete products – concrete paving blocks	A, D

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38	Determination of flexural strength	ČSN EN 1339, Annex F; ČSN EN 1340, Annex F	Concrete products – concrete paving blocks, concrete kerb units	A, D
39*	Determination of slip resistance by pendulum method	ČSN 72 5191, Annex D	Ceramic coverings	A, D
40*	Measurement of slip/skid resistance of a surface – Pendulum test	ČSN EN 13036-4	Roads, runways	A, D
41*	Determination of slip resistance of pedestrian surfaces	ČSN P CEN/TS 16165, Annex C	Roads	A, D
42	Resistance to freezing/thawing with/without the use of de-icing salts	ČSN EN 13198, Annex A, B	Concrete products – prefabricated concrete products	A, B, D
43	Determination of abrasiveness by Böhme method	ČSN EN 1338, Annex H; ČSN EN 1339, Annex H; ČSN EN 1340, Annex H	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D
44*	Determination of skid resistance	ČSN EN 1338, Annex I; ČSN EN 1339, Annex I; ČSN EN 1340, Annex I	Concrete products – concrete paving blocks concrete paving flags concrete kerb units	A, D
45	Determination of dimensions and checks of shape	ČSN 73 0212-5	Concrete products - building components	A, D
46	Determination of static load capacity	ČSN EN 13230-2, except cl. 4.3.3, 4.3.4, 4.4.3, 4.5.2	Concrete products - sleepers and bearers	A, D
47	Determination of weight	ČSN 73 2045	Concrete products - building components	A, D
48*	Determination of permeability by the Torrent permeability tester method	MP VUT č. 8 (PROCEQ Directive and Manual); ČSN P 73 2404, Annex N, cl. N.3.8	Hardened concrete, concrete products - building components	A, D

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49	Determination of the carbonation resistance - Accelerated carbonation method	ČSN EN 12390-12	Cement, hardened concrete, concrete products - building components	A, D
50	Reserved			
51	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	A, B, D
52	Determination of loose bulk density and voids	ČSN EN 1097-3	Aggregates	A, B, D
53	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1	Aggregates	A, B, D
54	Determination of compressive strength	ČSN EN 1926	Natural stone	A, D
55	Determination of particle density and water absorption	ČSN EN 1097-6	Aggregates	A, D
56	Determination of the slip resistance by means of pendulum tester	ČSN EN 14231	Natural stone	A, D
57	Determination of grading and fineness	ČSN EN 933-10; ČSN EN 450-1, cl. 5.3.1; ČSN EN 196-6, except cl. 3 and 4	Aggregates, fly ash, cement	A, D
58	Determination of resistance to freezing and thawing	ČSN EN 1367-1; ČSN EN 13450 ed. 2, Annex D	Aggregates	A, B, D
59	Sand equivalent test	ČSN EN 933-8 + A1	Aggregates	A, D
60	Determination of lightweight pollutants and potential presence of humus	ČSN EN 1744-1, chap. 14.2 and 15.1	Aggregates	A, D
61	Assessment of fines – Methylene blue test	ČSN EN 933-9	Aggregates	A, D
62	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
63-64	Reserved			
65	Determination of compressive strength	ČSN EN 772-1 + A1	Masonry units	A, D
66	Determination of water absorption due to capillary action and the initial rate of water absorption	ČSN EN 772-11	Masonry units, concrete masonry units, masonry units of manufactured and natural stone, burnt masonry units	A, D
67	Determination of dimensions	ČSN EN 772-16	Masonry units	A, D
68	Determination of flatness of faces	ČSN EN 772-20	Masonry units, concrete masonry units, masonry units of manufactured and natural stone	A, D
69	Determination of density	ČSN EN 772-13	Masonry units	A, D
70	Determination of bending strength	ČSN EN 772-6	Masonry units	A, D
71	Determination bending strength of side shuttering blocks	ČSN EN 15435, Annex B	Masonry units, formwork blocks	A, B, D
72	Determination of carbon dioxide permeability	ČSN EN 1062-6, Method A	Paints and varnishes	A, D
73*	Test of adhesion to the base	ČSN 73 2577	Surface finish of building structures	A, D
74*	Testing of bond strength	ČSN EN 1542; ČSN EN 13892-8	Surface finish, screed materials	A, D
75	Determination of water vapour transmission	ČSN 73 2580	Surface finish of building structures	A, D
76*	Testing of bond strength	ČSN 73 6242, Annex B	Insulation layers	A, D
77-80	Reserved			
81	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, B, D

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82	Determination of flexural strength and compressive strength, determination of efficiency index	ČSN EN 196-1; ČSN EN 450-1, cl. 5.3.2	Cement, fly ash	A, D
83	Determination of mass per unit volume	ČSN EN 1015-10	Hardened mortars	A, D
84	Determination of consistence	ČSN EN 1015-3	Fresh mortar	A, D
85	Granulometric determination	MP VUT č. 5 (ČSN EN 933-10; MALVERN manual to MASTERSIZER 2000)	Fillers, cements	A, D
86	Determination of specific surface	ČSN EN 196-6, except cl. 3 and 5	Cement	A, D
87	Determination of setting times and soundness	ČSN EN 196-3	Cement	A, D
88	Determination of specific gravity	ČSN 72 2113, method B	Cement	A, D
89-90	Reserved			
91	Determination of steady-state thermal conductivity coefficient - by test - by calculation	ČSN 72 7012 - 1; ČSN 72 7012 - 3; ČSN EN 1745	Building materials	A, D
92	Determination of steady-state thermal conductivity coefficient - by test - by calculation	ČSN EN 12667; ČSN EN 1745	Building materials	A, D
93	Determination of thickness	ČSN EN 823	Thermal insulation products	A, D
94	Determination of length and width	ČSN EN 822	Thermal insulation products	A, D
95	Determination of linear dimensions	ČSN EN 12085	Thermal insulation products	A, D
96	Determination of mass per unit volume	ČSN EN ISO 29470	Thermal insulation products	A, D
97	Determination of short term water absorption	ČSN EN ISO 29767	Thermal insulation products	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
98	Determination of compressive strength at 10% deformation	ČSN EN 826	Thermal insulation products	A, D
99	Determination of tensile strength perpendicular to faces	ČSN EN 1607	Thermal insulation products	A, D
100	Determination of laboratory reference density and water content – Proctor test	ČSN EN 13286-2, except. cl. 7.3 and 7.6	Unbound and hydraulically bound mixtures	A, D
101	Determination of compressive strength	ČSN EN 13286-41	Unbound and hydraulically bound mixtures	A, D

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.

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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, cl. 6	Hardened concrete
3	Fresh and hardened concrete sampling	ČSN EN 14488-1	Sprayed concrete
4	Aggregate sampling Reduction of laboratory samples	ČSN EN 932-1; ČSN EN 932-2	Aggregates

¹ for dated documents identifying essential requirements / harmonised technical specifications: product specifications / features / technical standards, only the editions cited are used; for undated documents, the latest edition of the referenced document (including any amendments) is used

Explanations:

MP VUT – ÚTHD FAST VUT Brno Guideline

ÖNORM - Austrian Standard

"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. "