

**The Appendix is an integral part of  
Certificate of Accreditation No. 88/2022 of 22/02/2022**

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

**Vysoké učení technické v Brně**  
Testing Laboratory of ITBMC FCE BUT Brno  
Veveří 95, 602 00 Brno

**Testing laboratory location:**

1. **Workplace Purkyňova** Purkyňova 139, 612 00 Brno

*The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex.*

*Updated list of activities provided within the flexible scope of accreditation is available in the laboratory from the Laboratory Technical Manager.*

*The Laboratory provides expert opinions and interprets test results.*

*The laboratory is eligible to provide individual sampling.*

1. **Workplace Purkyňova**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure/ method name	Test procedure/ method identification <sup>2</sup>	Tested object
1*	Determination of consistency - slump test	ČSN EN 12350-2 STN EN 12350-2	Fresh concrete
2*	Determination of workability – flow table test	ČSN EN 12350-5 STN EN 12350-5	Fresh concrete
3*	Determination of air content – pressure method	ČSN EN 12350-7, except, ch. 5 STN EN 12350-7, except, ch. 5	Fresh concrete
4*	Determination of mass per unit volume	ČSN EN 12350-6 STN EN 12350-6	Fresh concrete
5	Determination of volume changes	MP VUT no. 6 (Önorm B 3329, ch. 7.3.1)	Fresh concrete
6*	Determination of bleeding of concrete	MP VUT č. 7 (Guideline Merkblatt Weiche Betone)	Fresh concrete
7*	Determination of consistency - Slump-flow test	ČSN EN 12350-8	Fresh concrete
8-10	Reserved		
11	Determination of mass per unit volume	ČSN EN 12390-7 STN EN 12390-7	Hardened concrete
12	Determination of compressive strength of test specimens	ČSN EN 12390-3 STN EN 12390-3	Hardened concrete
13	Determination of compressive strength of test specimens	ČSN EN 12504-1, except ch. 6 STN EN 12504-1, except ch. 6	Hardened concrete
14	Determination of tensile strength of concrete	ČSN 73 1318 Annex 1, 2	Hardened concrete

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15	Determination of flexural strength of test specimens	ČSN EN 12390-5 STN EN 12390-5	Hardened concrete
16	Determination of absorptivity and moisture content	MP VUT no. 3 (ČSN 73 1316)	Hardened concrete
17	Determination of watertightness	MP VUT no. 1 (ČSN 73 1321)	Hardened concrete
18	Determination of resistance to frost	ČSN 73 1322	Hardened concrete
19	Determination of abrasiveness – acc. to Böhme	ČSN 73 1324 ČSN EN 13892-3	Hardened concrete, screed materials
20	Determination of cement concrete resistance to water and chemical agents	ČSN 73 1326 STN 731326 MP VUT no. 4 (ČSN 731326)	Hardened concrete
21	Determination of the indirect tensile strength	ČSN EN 12390-6 STN EN 12390-6	Hardened concrete
22	Determination of volume changes	ČSN 73 1320	Hardened concrete
23	Determination of air void characteristics	ČSN EN 480-11 STN EN 480-11	Hardened concrete
24	Determination of depth of penetration of water under pressure	ČSN EN 12390-8 STN EN 12390-8	Hardened concrete
25	Determination of static modulus of elasticity in compression	ČSN ISO 1920-10	Hardened concrete
26*	Determination of hardness – non-destructive determination of compressive strength	ČSN EN 12504-2 ČSN 73 1373	Hardened concrete
27*	Determination of compressive strength of young sprayed concrete	ČSN EN 14488-2	Sprayed concrete
28	Determination of static modulus of elasticity in compression	ČSN EN 12390-13 STN EN 12390-13	Hardened concrete

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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
30	Determination of flexural strength	ČSN P 73 2452	Hardened concrete, hardened fiber-reinforced concrete
31	Testing of compressive strength on paving elements of vibrated concrete	MP VUT No. 2 (ČSN 73 6131-1, Annex A)	Concrete products – tiles and pavers
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
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
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 1916, 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
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

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36	Determination of loading of manhole steps	ČSN EN 1917, Annex E	Concrete products - concrete manholes and inspection chambers
37	Determination of indirect tensile strength	ČSN EN 1338, Annex F	Concrete products – concrete paving blocks
38	Determination of flexural strength	ČSN EN 1339, Annex F ČSN EN 1340, Annex F	Concrete products – concrete paving blocks, concrete kerb units
39*	Determination of slip resistance by pendulum method	ČSN 72 5191, Annex D	Ceramic coverings
40*	Measurement of slip/skid resistance of a surface – Pendulum test	ČSN EN 13036-4	Roads, runways
41*	Determination of slip resistance of pedestrian surfaces	ČSN P CEN/TS 16165, Annex C	Roads
42	Resistance to freezing/thawing with/without the use of de-icing salts	ČSN EN 13198, Annex A, B	Concrete products – prefabricated concrete products
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
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
45	Determination of dimensions and checks of shape	ČSN 73 0212-5	Concrete products - building components
46	Determination of static load capacity of sleepers	ČSN EN 13230-2, except ch. 4.3.3, 4.3.4, 4.4.3, 4.5.2	Concrete products - sleepers and bearers
47	Determination of weight of building components	ČSN 73 2045	Concrete products - building components
48-50	Reserved		

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51	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates
52	Determination of loose bulk density and voids	ČSN EN 1097-3	Aggregates
53	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1	Aggregates
54	Determination of compressive strength	ČSN EN 1926	Natural stone
55	Determination of particle density and water absorption	ČSN EN 1097-6	Aggregates
56	Determination of the slip resistance by means of pendulum tester	ČSN EN 14231	Natural stone
57	Determination of grading and fineness	ČSN EN 933-10 ČSN EN 450-1, ch 5.3.1 ČSN EN 196-6, except ch. 3 and 4	Aggregates, fly ash, cement
58	Determination of resistance to freezing and thawing	ČSN EN 1367-1 ČSN EN 13450 ed. 2, Annex D	Aggregates
59	Sand equivalent test	ČSN EN 933-8 + A1	Aggregates
60	Determination of lightweight pollutants and potential presence of humus	ČSN EN 1744-1, ch. 14.2 and 15.1	Aggregates
61	Assessment of fines – Methylene blue test	ČSN EN 933-9 + A1	Aggregates
62	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates
63-64	Reserved		
65	Determination of compressive strength	ČSN EN 772-1 + A1	Masonry units

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Ordinal number <sup>1</sup>	Test procedure/ method name	Test procedure/ method identification <sup>2</sup>	Tested object
66	Determination of water absorption of concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units	ČSN EN 772-11	Masonry units
67	Determination of dimensions	ČSN EN 772-16	Masonry units
68	Determination of flatness of faces of aggregate concrete, manufactured stone and natural stone masonry units	ČSN EN 772-20	Masonry units
69	Determination of density of masonry units	ČSN EN 772-13	Masonry units
70	Determination of bending strength	ČSN EN 772-6	Masonry units
71	Determination bending strength of side shuttering blocks	ČSN EN 15435, Annex B	Masonry units
72	Determination of carbon dioxide permeability	ČSN EN 1062-6, Method A	Paints and varnishes
73*	Test of building structure finish adhesion to the base	ČSN 73 2577	Surface finish
74*	Testing of bond strength	ČSN EN 1542 ČSN EN 13892-8	Surface finish, screed materials
75	Determination of water vapour transmission	ČSN 73 2580	Surface finish of building structures
76*	Testing of bond strength	ČSN 73 6242, Annex B	Insulation layers
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
82	Determination of flexural strength and compressive strength, fly ash efficiency index	ČSN EN 196-1 ČSN EN 450-1, ch. 5.3.2	Cement, fly ash

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83	Determination of mass per unit volume	ČSN EN 1015-10	Hardened mortars
84	Determination of consistence	ČSN EN 1015-3	Fresh mortar
85	Granulometric determination	MP VUT č. 5 (ČSN EN 933-10, MALVERN manual to MASTERSIZER 2000)	Fillers, cements
86	Determination of specific surface	ČSN EN 196-6, except ch. 3 and 5	Cement
87	Determination of setting times and soundness	ČSN EN 196-3	Cement
88	Determination of specific gravity	ČSN 72 2113, method B	Cement
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
92	Determination of steady-state thermal conductivity coefficient - by test - by calculation	ČSN EN 12667 ČSN EN 1745	Building materials
93	Determination of thickness	ČSN EN 823	Thermal insulation products
94	Determination of length and width	ČSN EN 822	Thermal insulation products
95	Determination of linear dimensions	ČSN EN 12085	Thermal insulation products
96	Determination of mass per unit volume	ČSN EN 1602	Thermal insulation products
97	Determination of short term water absorption	ČSN EN ISO 29767	Thermal insulation products
98	Determination of compressive strength at 10% deformation	ČSN EN 826	Thermal insulation products

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99	Determination of tensile strength perpendicular to faces	ČSN EN 1607	Thermal insulation products
100	Determination of laboratory reference density and water content – Proctor test	ČSN EN 13286-2, except. ch. 7.3 and 7.6	Unbound and hydraulically bound mixtures
101	Determination of compressive strength	ČSN EN 13286-41	Unbound and hydraulically bound mixtures

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

<sup>2</sup> 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 edition of the specified procedure is used (including any changes)

MP – ÚTHD FAST VUT Brno Guideline

ÖNORM - Austrian Standard

Annex:

Flexible scope of accreditation

Ordinal test numbers
1-7, 10-47, 51-62, 65-77, 81-88, 91-101

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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**Sampling:**

**1. Workplace Purkyňova**

Ordinal number	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Sampled object
1	Fresh concrete sampling	ČSN EN 12350-1 STN EN 12350-1	Fresh concrete
2	Sampling by cored specimen method	ČSN EN 12504-1, ch. 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

<sup>1</sup> 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 edition of the specified procedure is used (including any changes)