The Appendix is an integral part of
Certificate of Accreditation No. 488/2023 of 15/09/2023

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

SQZ, s.r.o.
CAB number 1135.2, Central Laboratory Prague
Rohanský ostrov 641, 186 00 Praha 8

Testing laboratory locations:

1	**Rohanský ostrov**	Rohanský ostrov 641, 186 00 Praha 8
2	**Zbraslav**	K Výtopně 1226, 156 00 Praha - Zbraslav
3	**Fyzikálních veličin**	K Výtopně 1226, 156 00 Praha - Zbraslav
4	**Kařez**	Kařez Asphalt Mixing Plant site
5	**Louny**	Postoloprtská 2956, 440 01 Louny
6	**Dobřany**	Dvořákova 998, 334 41 Dobřany
7	**Bílý Kámen**	Bílý Kámen Rock Quarry, 588 41 Vyskytná nad Jihlavou
8	**Srch**	Srch 229, 533 52 Srch
9	**Lišov**	Jirsíkova 436/45, 373 72 Lišov

The laboratory applies a flexible approach to the scope of accreditation.
The current list of activities carried out within the flexible scope is publicly available on the laboratory's website ***www.sqz.cz*** *in the form „List of activities within the flexible scope of accreditation" and from the Head of Location No. 1 and 3.*
The laboratory provides opinions and interprets test results.
The laboratory is qualified to carry out independent sampling.

1. **Rohanský ostrov**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
1*	Determination of consistency - Slump test	ČSN EN 12350-2; PN-EN 12350-2	Fresh concrete	A,B,D
2*	Determination of consistency - Flow table test	ČSN EN 12350-5	Fresh concrete	A,B,D
3*	Determination of consistency – degree of compactibility	ČSN EN 12350-4; PN-EN 12350-4	Fresh concrete	A,B,D
4*	Determination of mass per unit volume	ČSN EN 12350-6, except cl. 6.4.2.1; PN-EN 12350-6, except cl. 6.4.2.1	Fresh concrete	A,B,D
5*	Determination of air content - pressure method	ČSN EN 12350-7, chap. 6, except cl. 6.2.3.1, Annex A, C; PN-EN 12350-7, chap. 6, except cl. 6.2.3.1, Annex A, C	Fresh concrete	A,B,D
6	Determination of mass per unit volume	ČSN EN 12390-7, except cl. 5.5.6; PN-EN 12390-7, except cl. 5.5.6	Hardened concrete	A,B,D

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SQZ, s.r.o.

CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
7	Determination of compressive strength of test specimens	ČSN EN 12390-3, except cl. A.3, A.5; PN-EN 12390-3, except cl. A.3, A.5	Hardened concrete	A,B,D
8	Determination of flexural strength of test specimens	ČSN EN 12390-5, except Annex A; PN-EN 12390-5, except Annex A	Hardened concrete	A,B,D
9	Determination of resistance to frost	ČSN 73 1322	Hardened concrete	A,B,D
10	Determination of cement concrete surface resistance to water and chemical de-icing agents	ČSN 73 1326, method A, C	Hardened concrete	A,B,D
11	Determination of depth of penetration of water under pressure	ČSN EN 12390-8; PN-EN 12390-8	Hardened concrete	A,B,D
12*	Determination of rebound number by hardness drop tester	ČSN EN 12504-2; ČSN 73 1373, method III A to C	Hardened concrete	A,B,D
13	Determination of compressive strength of cored specimens	ČSN EN 12504-1, cl. 8; PN-EN 12504-1, cl. 8	Hardened concrete	A,B,D
14	Reserved			
15	Determination of the indirect tensile strength	ČSN EN 12390-6; PN-EN 12390-6	Hardened concrete	A,B,D
16	Determination of concrete setting by determining penetration resistance by weighing method	ČSN 73 1332	Fresh concrete	A,B,D
17	Determination of the thickness of a concrete pavement from cores	ČSN EN 13863-3; PN-EN 13863-3	Hardened concrete	A,B,D
18	Determination of the volume of voids	ČSN 73 6124-2, Annex A	Hardened concrete	A,B,D
19 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4; PN-EN 933-4	Aggregates	A,B,D
42	Assessment of fines – Sand equivalent test	ČSN EN 933-8+A1	Aggregates	A,B,D
43	Determination of particle density and water absorption	ČSN EN 1097-6; PN-EN 1097-6	Aggregates	A,B,D
44	Determination of resistance to fragmentation	ČSN EN 1097-2, method LA; PN-EN 1097-2, method LA	Aggregates	A,B,D

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Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
45	Tests for thermal and weathering properties – Determination of resistance to freezing and thawing	ČSN EN 1367-1	Aggregates	A,B,D
46	Determination of thermal and weathering properties – Magnesium sulphate test	ČSN EN 1367-2	Aggregates	A,B,D
47	Determination of grain size	ČSN EN 933-1; PN-EN 933-1	Aggregates	A,B,D
48	Determination of loose bulk density and voids	ČSN EN 1097-3	Aggregates	A,B,D
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	A,B,D
50 - 60	Reserved			
61	Geotechnical investigation and testing - determination of the particle size distribution of soils	ČSN EN ISO 17892-4	Soils	A,B,D
62	Determination of Atterberg limits – liquid limit, plastic limit	ČSN EN ISO 17892-12	Soils	A,B,D
63	Test methods for laboratory reference density and water content	ČSN EN 13286-2	Bound and unbound mixtures; soils	A,B,D
64	Determination of minimum and maximum compactness	ČSN 72 1018	Soils	A,B,D
65	Determination of California bearing ratio, immediate bearing index and linear swelling	ČSN EN 13286-47	Bound and unbound mixtures; soils	A,B,D
66*	Determination of mass per unit volume	ČSN 72 1010, method A, D-1	Bound and unbound mixtures; soils	A,B,D
67	Determination of compressive strength	ČSN EN 13286-41	Hydraulically bound mixtures	A,B,D
68	Determination of resistance to freezing and water	ČSN 73 6124-1, Annex A	Hydraulically bound mixtures	A,B,D
69*	Determination of dynamic modulus of deformation – light dynamic plate method	ČSN 73 6192, Group C	Bound and unbound mixtures; soils	A,B,D
70*	Determination of static modulus of deformation – Static load test	ČSN 72 1006, Annex A, B, D	Bound and unbound mixtures; soils	A,B,D
71	Determination of moisture content	ČSN EN ISO 17892-1	Soils	A,B,D

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

SQZ, s.r.o.

CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
72*	In situ determination of California bearing ratio, immediate bearing index	ČSN 73 6186	Bound and unbound mixtures; soils	A,B,D
73 - 90	Reserved			
91*	Determination of layer adhesion and tensile strength of surface layers	ČSN 73 6242, Annex B	Concrete structures and components, insulation layers	A,B,D
92*	Determination of surface finish adhesive strength on substrate	ČSN 73 2577	Plasters	A,B,D
93*	Determination of protective coating adhesion	IP - SQZ - 4 (ČSN 73 1344)	Concrete structures and components	A,B,D
94*	Measurement of bond strength by pull-off	ČSN EN 1542	Concrete structures and components	A,B,D
95*	Determination of protection of surface layer steel reinforcement	IP - SQZ - 1 (ČSN 73 2011, Annex A)	Concrete structures and components, insulation layers	A,B,D
96*	Measurement of pavement surface macrotexture depth using a volumetric patch technique	ČSN EN 13036-1	Road surface	A,B,D
97*	Roughness measurement	ČSN 73 6175, cl. 8	Road surface	A,B,D
98*	Impermeability test of sealing layer	ČSN 73 6242, Annex D	Insulation	A,B,D
99*	Pile integrity test – PIT method	IP - SQZ - 5 (Manual to PIT equipment)	Concrete and reinforced concrete structures	A,B,D
100*	Pile integrity test – CHUM method	IP - SQZ - 6 (Manual to CHUM equipment)	Concrete and reinforced concrete structures	A,B,D
101	Reserved			
102	Determination of flexural strength	ČSN EN 1015-11, except. cl. 9	Mortars	A,B,D
103	Determination of compressive strength on beam fragments	ČSN EN 1015-11, except. cl. 8	Mortars	A,B,D
104 - 107	Reserved			
108*	Determination of the position of dower bars and tie bars	IP - SQZ - 2 (ČSN 73 6123-1, TP-233, Methodology CDV-GPR01-2016)	Expansion joints of concrete pavements	A,B,D
109	Determination of moisture content by drying at elevated temperature	ČSN EN ISO 12570	Silicate materials	A,B,D
110*	Determination of thickness	IP - SQZ - 7 (ASTM D 4748-10, TP-233; Methodology CDV-GPR02-2017)	Bound mixtures	A,B,D

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

SQZ, s.r.o.

CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
111*	Determination of concrete reinforcement covering	IP - SQZ - 8 (ASTM D6087-08; Methodology CDV-GPR03-2017)	Concrete on bridge decks	A,B,D
112*	Determination of retroreflection coefficient	IP - SQZ - 11 (ČSN EN 12899-1; STN EN 12899-1; ČSN EN 12899-3; STN EN 12899-3; TP 143)	Vertical road signs, traffic control equipment	A,B,D
113*	Determination of luminance factor and chromaticity	IP - SQZ - 12 (ČSN EN 12899-1; STN EN 12899-1; ČSN EN 12899-3; STN EN 12899-3; TP 143)	Vertical road signs, traffic control equipment	A,B,D
114*	Determination of trichromatic co-ordinates and luminance factor	IP - SQZ - 13 (ČSN EN 1436, Annex C; STN EN 1436, Annex C; TP 70)	Road marking, traffic control equipment	A,B,D
115*	Determination of luminance factor at diffused lighting	IP - SQZ - 14 (ČSN EN 1436, Annex A; STN EN 1436, Annex A; TP 70)	Road marking, traffic control equipment	A,B,D
116*	Determination of the coefficient of luminous intensity	IP - SQZ - 15 (ČSN EN 1436, Annex B; STN EN 1436, Annex B; TP 70)	Road marking, traffic control equipment	A,B,D
117*	Measurement of dimensions of road marking and traffic control equipment	IP – SQZ -16 (TP 70; Act No. 361/2000 Coll.; Regulation No. 294/2015 Coll.; MoT Regulation No. 30/2001 Coll.)	Road marking, traffic control equipment	A,B,D
118*	Measurement of slip/skid resistance of a surface – Pendulum test	ČSN EN 13036-4	Road surface	A,B,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 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]	Sampled object
V1	Aggregate sampling Reduction of aggregate samples	ČSN EN 932-1; PN-EN 932-1; ČSN EN 932-2; PN-EN 932-2	Aggregates
V2	Fresh concrete sampling	ČSN EN 12350-1; PN-EN 12350-1	Fresh concrete
V3	Hardened concrete sampling	ČSN EN 12504-1, cl. 1 – 7; PN-EN 12504-1, cl. 1 - 7	Hardened concrete
V4-V6	Reserved		

[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 edition of the specified procedure is used (including any changes)

Explanations and abbreviations:

ASTM D4748-10 - Standard Test Method for Determining the Thickness of Bound Pavement Layers Using Short-Pulse Radar, 2015

ASTM D6087-08 - Standard Test Method for Evaluating Asphalt-Covered Concrete Bridge Decks Using Ground Penetrating Radar, 2015

CDV-GPR01 - Methodology for the measurement and determination of the position of dower bars and tie bars in expansion joints of concrete pavements by using dual channel georadar. The methodology has been developed by the Transport Research Centre (CDV) in Brno, CDV-GPR01-2016, first edition, February 18, 2016

CDV-GPR02 - Methodology for the measurement and determination of the thickness of bound pavement layers by using dual channel georadar. The methodology has been developed by the Transport Research Centre (CDV) in Brno, CDV-GPR02-2017, first edition, January 27, 2017

CDV-GPR03 - Methodology for the measurement and determination of the covering of concrete reinforcement on bridge decks by using dual channel georadar. The methodology has been developed by the Transport Research Centre (CDV) in Brno, CDV-GPR03-2017, first edition, January 27, 2017

CHUM - Cross Hole Ultrasonic Monitor

IP - SQZ - Internal Specification of SQZ (Test method prepared by the Central Laboratory Prague)

LA - Los Angeles

PIT - Pile Echo Tester

TP 70 - Technical Specifications – Specifications for the execution and testing of road marking on roads – published by the Road Transport Section of the Ministry of Transport and approved by MD-OPK under the no. 534/2013-120-STSP/1 on 31/07/2013

TP 143 - Technical Specifications – Assessment system for portable vertical road signs – published by the Road Transport Section of the Ministry of Transport and approved by MD-OPK under the no. 540/2013-120-STSP/1 on 31/07/2013

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

SQZ, s.r.o.

CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

TP-233 - Technical Specifications – Georadar method for pavements published by the Road Transport and Land Planning Section of the Ministry of Transport approved by MD-OPK and UP under the no. 458/2011-910-STSP/1 on 27/06/2011

MoT - Ministry of Transport

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2. **Zbraslav**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
1*	Determination of consistency - Slump test	ČSN EN 12350-2; STN EN 12350-2	Fresh concrete	-
2*	Determination of consistency - Flow table test	ČSN EN 12350-5; STN EN 12350-5	Fresh concrete	-
3	Reserved			
4*	Determination of mass per unit volume	ČSN EN 12350-6, except cl. 6.4.2.1; STN EN 12350-6, except cl. 6.4.2.1	Fresh concrete	-
5*	Determination of air content - pressure method	ČSN EN 12350-7, chap. 6, except cl. 6.2.3.1, Annex A, C; PN-EN 12350-7, chap. 6, except cl. 6.2.3.1, Annex A, C	Fresh concrete	-
6	Determination of mass per unit volume	ČSN EN 12390-7, except cl. 5.5.6; STN EN 12390-7, except cl. 5.5.6	Hardened concrete	-
7	Determination of compressive strength of test specimens	ČSN EN 12390-3, except cl. A.3, A.5; STN EN 12390-3, except cl. A.3, A.5	Hardened concrete	-
8	Determination of flexural strength of test specimens	ČSN EN 12390-5, except Annex A; STN EN 12390-5, except Annex A	Hardened concrete	-
9	Determination of resistance to frost	ČSN 73 1322; STN 73 1322	Hardened concrete	-
10	Determination of cement concrete surface resistance to water and chemical de-icing agents	ČSN 73 1326, method A, C; STN 73 1326, method A, C	Hardened concrete	-
11	Determination of depth of penetration of water under pressure	ČSN EN 12390-8; STN EN 12390-8	Hardened concrete	-
12*	Determination of rebound number by hardness drop tester	ČSN EN 12504-2; STN EN 12504-2; ČSN 73 1373, method III A to C; STN 73 1373, method III A to C	Hardened concrete	-
13	Determination of compressive strength of cored specimens	ČSN EN 12504-1, cl. 8; STN EN 12504-1, cl. 8	Hardened concrete	-

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

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CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
14	Determination of static modulus of elasticity in compression	ČSN ISO 1920-10	Hardened concrete	-
15	Determination of the indirect tensile strength	ČSN EN 12390-6; STN EN 12390-6	Hardened concrete	-
16	Reserved			
17	Determination of the thickness of a concrete pavement from cores	ČSN EN 13863-3; STN EN 13863-3; PN-EN 13863-3	Hardened concrete	-
18	Determination of the volume of voids	ČSN 73 6124-2, Annex A; STN 73 6124-2, Annex A	Hardened concrete	-
19*	Slump-flow test	ČSN EN 12350-8; STN EN 12350-8	Fresh concrete	-
20*	Determination of compressive strength	ČSN EN 14488-2; STN EN 14488-2	Young sprayed concrete	-
21*	Determination of flexural strength (first peak, ultimate and residual)	ČSN EN 14488-3; STN EN 14488-3	Hardened fiber-reinforced concrete	-
22	Determination of flexural strength	ČSN P 73 2452, cl. 8	Hardened fiber-reinforced concrete	-
23	Determination of secant modulus of elasticity in compression	ČSN EN 12390-13; STN EN 12390-13	Hardened concrete	-
24	Determination of proportionality limit and residual flexural tensile strength	ČSN EN 14651+A1; STN EN 14651+A1	Hardened fiber-reinforced concrete	-
25 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	-
42 - 46	Reserved			
47	Determination of grain size	ČSN EN 933-1	Aggregates	-
48	Reserved			
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	-
50 - 62	Reserved			
63	Test methods for laboratory reference density and water content	ČSN EN 13286-2	Bound and unbound mixtures; soils	-
64	Reserved			
65	Determination of California bearing ratio, immediate bearing index and linear swelling	ČSN EN 13286-47	Bound and unbound mixtures; soils	-

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

SQZ, s.r.o.

CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
66*	Determination of mass per unit volume	ČSN 72 1010, method A, D-1	Bound and unbound mixtures; soils	-
67	Determination of compressive strength	ČSN EN 13286-41	Hydraulically bound mixtures	-
68	Reserved			
69*	Determination of dynamic modulus of deformation – light dynamic plate method	ČSN 73 6192, Group C	Bound and unbound mixtures; soils	-
70*	Determination of static modulus of deformation – Static load test	ČSN 72 1006, Annex A, B, D	Bound and unbound mixtures; soils	-
71	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
72 - 90	Reserved			
91*	Determination of layer adhesion and tensile strength of surface layers	ČSN 73 6242, Annex B	Concrete structures and components, insulation layers	-
92 - 94	Reserved			
95*	Determination of protection of surface layer steel reinforcement	IP - SQZ - 1 (ČSN 73 2011, Annex A)	Concrete structures and components, insulation layers	-
96*	Measurement of pavement surface macrotexture depth using a volumetric patch technique	ČSN EN 13036-1	Road surface	-
97 - 100	Reserved			
101	Determination of load-bearing capacity	IP - SQZ - 3	Rock bolts	-
102	Determination of flexural strength	ČSN EN 1015-11, except cl. 9	Mortars	-
103	Determination of compressive strength on beam fragments	ČSN EN 1015-11, except cl. 8	Mortars	-
104	Determination of setting times and soundness	ČSN EN 196-3 PN-EN 196-3	Cements	-
105	Determination of flexural strength and compressive strength	ČSN EN 196-1, except chap. 11, Annex A PN-EN 196-1, except chap. 11, Annex A	Cements	-
106	Determination of compressive strength	ČSN EN 445, cl. 4.6	Injection mortars	-
107	Determination of flexural strength and compressive strength	ČSN EN 13892-2	Screed materials	-

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[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 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]	Sampled object
V1	Reserved		
V2	Fresh concrete sampling	ČSN EN 12350-1; PN-EN 12350-1	Fresh concrete
V3	Hardened concrete sampling	ČSN EN 12504-1, cl. 1 ÷ 7; PN-EN 12504-1, cl. 1 ÷ 7	Hardened concrete
V4	Sprayed concrete sampling	ČSN EN 14488-1, except cl. 5.4	Hardened concrete
V5-V6	Reserved		

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Explanations and abbreviations:

IP - SQZ - Internal Specification (Test method prepared by the Central Laboratory Prague)

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

SQZ, s.r.o.
CAB number 1135.2, Central Laboratory Prague
Rohanský ostrov 641, 186 00 Praha 8

3. **Physical quantities**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Subject of the test	Degrees of freedom[3]
1 - 200	Reserved			
201*	Measurement of noise in a working environment	ČSN EN ISO 9612; STN EN ISO 9612; MoH Bulletin, 2013, Part 4; SR GR No. 115/2006 Coll.; SR GR No. 555/2006 Coll. for the purpose of Act No. 355/2007 Coll.	Working environment	A,B,D
202*	Measurement of noise in a non-working environment	ČSN ISO 1996-1; STN ISO 1996-1; ČSN ISO 1996-2; STN ISO 1996-2; ČSN EN ISO 16032; ČSN EN ISO 3746; MoH CR Bulletin, 2017, Part 11; SR MH Regulation No. 549/2007 Coll. for the purpose of Act No. 355/2007 Coll.	Non-working environment	A,B,D
203*	Determination of dust content (including SiO_2 fibrinogen component) by gravimetry	IP-SQZ-9 (ČSN EN 689+AC; HEM-340-22.1.02/1890; GR No. 361/2007 Coll.)	Working environment	A,B,D
204*	Measurement of the concentration of - CO, O_2 electrochemically - CO_2 by infrared spectrometry	IP-SQZ-10 (ČSN EN 482+A1; ČSN EN 689+AC; GR No. 361/2007 Coll.; Manual to the MultiRAE multifunction analyzer)	Working environment	A,B,D
205*	Determination and measurement of artificial lighting in working and non-working environment	ČSN 36 0011-1; ČSN 36 0011-3	Working and non-working environment	A,B,D
206*	Measurement of vibration	ČSN EN ISO 5349-1; ČSN EN ISO 5349-2; ČSN EN 14253+A1; ČSN EN 28662-1; ČSN ISO 2631-1;	Working and non-working environment, building structures, vibrations transferred to the hand	A,B,D

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

SQZ, s.r.o.
CAB number 1135.2, Central Laboratory Prague
Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Subject of the test	Degrees of freedom[3]
		ČSN ISO 2631-2 MoH Bulletin, 2013, part 4; ČSN 73 0040		
207*	Measurement of noise	ČSN ISO 11819-1	Non-working environment - road surfaces	A,B,D
208*	Measurement of insertion loss	ČSN ISO 10847	Outdoor noise barriers	A,B,D
209*	Measurement of sound insulation	ČSN EN ISO 3382-2; ČSN EN ISO 16283-1; ČSN EN ISO 16283-2; ČSN EN ISO 16283-3; ČSN EN ISO 717-1; ČSN EN ISO 717-2	Internal partitioning and peripheral structures	A,B,D

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[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
V1-V4	Reserved		
V5	Sampling for gravimetric determination of dust content	IP-SQZ-9 (ČSN EN 689; HEM-340-22.1.02/1890; GR No. 361/2007 Coll.)	Working environment
V6	Reserved		

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Explanations and abbreviations:

HEM-300-26.4.01-16344 - MoH guideline for the measurement and evaluation of noise in working environment and vibrations

HEM-340-22.1.02/1890 - MoH Guideline; i.e. the Guideline of the Chief Hygienist of the Czech Republic specifying the procedure and technology for the sampling and determination of the concentration of inhalable, respirable and other fractions of airborne dust in working environment according to the conventions adopted in ČSN EN 481 by gravimetry

MoH CR Bulletin, 2017, Part 11 - Guideline for the measurement and evaluation of noise in non-working environment

MoH CR Bulletin 2013, Part 4 - Guideline for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings

IP - SQZ - Internal Specification (Test procedure prepared by the Central Laboratory Prague)

MH - Ministry of Health (SR)

MoH - Ministry of Health of the Czech Republic

MoE - Ministry of the Environment of the Czech Republic

NV - Government Regulation (Czech Republic)

SR - Slovak Republic

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4. **Kařez**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
1 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	-
42 - 46	Reserved			
47	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1	Aggregates	-
48	Reserved			
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	-
50 - 300	Reserved			
301	Determination of soluble binder content	ČSN EN 12697-1	Bituminous mixtures	-
302	Determination of particle size distribution	ČSN EN 12697-2	Bituminous mixtures	-
303	Determination of the maximum density	ČSN EN 12697-5, Procedure A	Bituminous mixtures	-
304	Determination of bulk density of Bituminous specimens	ČSN EN 12697-6	Bituminous mixtures	-
305	Determination of the air void content of Bituminous mixture	ČSN EN 12697-8	Bituminous mixtures	-
306*	Measurement of temperature	ČSN EN 12697-13	Bituminous mixtures	-
307	Determination of the dimensions of Bituminous specimens	ČSN EN 12697-29, cl. 3.1, 3.2	Bituminous mixtures	-
308	Determination of the thickness of a Bituminous pavement	ČSN EN 12697-36, cl. 4.1	Bituminous layers	-
309	Test of pavement – degree of compaction	ČSN 73 6160, cl. 7.2, method a), c)	Bituminous layers	-

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[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 edition of the specified procedure is used (including any changes)

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[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

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
V1	Aggregate sampling	ČSN EN 932-1	Aggregates
V2 - V5	Reserved		
V6	Bituminous mixture sampling	ČSN EN 12697-27 except cl. 4.2, 4.8	Bituminous mixtures

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5. **Louny**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
1 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	-
42 - 46	Reserved			
47	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1	Aggregates	-
48	Reserved			
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	-
50 - 300	Reserved			
301	Determination of soluble binder content	ČSN EN 12697-1	Bituminous mixtures	-
302	Determination of particle size distribution	ČSN EN 12697-2+A1	Bituminous mixtures	-
303	Determination of the maximum density	ČSN EN 12697-5, Procedure A	Bituminous mixtures	-
304	Determination of bulk density of Bituminous specimens	ČSN EN 12697-6	Bituminous mixtures	-
305	Determination of the air void content of Bituminous mixture	ČSN EN 12697-8	Bituminous mixtures	-
306*	Measurement of temperature	ČSN EN 12697-13	Bituminous mixtures	-
307	Determination of the dimensions of Bituminous specimens	ČSN EN 12697-29, cl. 3.1, 3.2	Bituminous mixtures	-
308	Determination of the thickness of a Bituminous pavement	ČSN EN 12697-36, cl. 4.1	Bituminous layers	-
309	Test of pavement – degree of compaction	ČSN 73 6160, cl. 7.2, method a), c)	Bituminous layers	-

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
V1	Aggregate sampling	ČSN EN 932-1	Aggregates
V2 - V5	Reserved		
V6	Bituminous mixture sampling	ČSN EN 12697-27 except cl. 4.2, 4.8	Bituminous mixtures

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6. **Dobřany**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
1*	Determination of consistency - Slump test	ČSN EN 12350-2	Fresh concrete	-
2*	Determination of consistency - Flow table test	ČSN EN 12350-5	Fresh concrete	-
4*	Determination of mass per unit volume	ČSN EN 12350-6, except cl. 6.4.2.1	Fresh concrete	-
5*	Determination of air content - pressure method	ČSN EN 12350-7, chap. 5, except cl. 5.2.3.1, Annex A, C	Fresh concrete	-
6	Determination of mass per unit volume	ČSN EN 12390-7, except cl. 5.5.6	Hardened concrete	-
7	Determination of compressive strength of test specimens	ČSN EN 12390-3, except cl. A.3, A.5	Hardened concrete	-
8 - 9	Reserved			
10	Determination of cement concrete surface resistance to water and chemical de-icing agents	ČSN 73 1326, method A, C	Hardened concrete	-
11	Determination of depth of penetration of water under pressure	ČSN EN 12390-8	Hardened concrete	-
12*	Determination of rebound number by hardness drop tester	ČSN EN 12504-2 ČSN 73 1373, method III A to C	Hardened concrete	-
13 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	-
42	Assessment of fines – Sand equivalent test	ČSN EN 933-8+A1	Aggregates	-
43 - 46	Reserved			
47	Determination of grain size	ČSN EN 933-1 PN-EN 933-1	Aggregates	-
48	Reserved			
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	-
50 - 60	Reserved			
61	Geotechnical investigation and testing - determination of the particle size distribution of soils	ČSN EN ISO 17892-4	Soils	-

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CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
62	Determination of Atterberg limits – liquid limit, plastic limit	ČSN EN ISO 17892-12	Soils	-
63	Test methods for laboratory reference density and water content	ČSN EN 13286-2	Bound and unbound mixtures; soils	-
64	Determination of minimum and maximum compactness	ČSN 72 1018	Soils	-
65	Determination of California bearing ratio, immediate bearing index and linear swelling	ČSN EN 13286-47	Bound and unbound mixtures; soils	-
66*	Determination of mass per unit volume	ČSN 72 1010, method A, D-1	Bound and unbound mixtures; soils	-
67 - 68	Reserved			
69*	Determination of dynamic modulus of deformation – light dynamic plate method	ČSN 73 6192, Group C	Bound and unbound mixtures; soils	-
70*	Determination of static modulus of deformation – Static load test	ČSN 72 1006, Annex A, B, D	Bound and unbound mixtures; soils	-
71	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
72 - 90	Reserved			
91*	Determination of layer adhesion and tensile strength of surface layers	ČSN 73 6242, Annex B	Concrete structures and components, insulation layers	-
92 - 96	Reserved			
97*	Roughness measurement	ČSN 73 6175, cl. 8.9	Road surface	-
98 - 307	Reserved			
308	Determination of the thickness of a bituminous pavement	ČSN EN 12697-36, cl. 4.1	Bituminous layers	-
309*	Test of pavement – degree of compaction	ČSN 73 6160, cl. 7.2 method a), b), c)	Bituminous layers	-
310	Shear test of connection of bituminous layers	ČSN 73 6160 cl. 7.3	Bituminous layers	-

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
V1	Aggregate sampling Reduction of aggregate samples	ČSN EN 932-1 ČSN EN 932-2	Aggregates
V2	Fresh concrete sampling	ČSN EN 12350-1	Fresh concrete
V3	Hardened concrete sampling	ČSN EN 12504-1, cl. 1 - 7	Hardened concrete
V4 - V5	Reserved		
V6	Bituminous mixture sampling	ČSN EN 12697-27 except cl. 4.2, 4.8	Bituminous mixtures

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7. **Bílý Kámen**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Subject of the test	Degrees of freedom[3]
1 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	-
42 - 46	Reserved			-
47	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1	Aggregates	-
48	Reserved			
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	-
50 - 62	Reserved			
63	Test methods for laboratory reference density and water content	ČSN EN 13286-2	Bound and unbound mixtures; soils	-
64 - 65	Reserved			-
66*	Determination of mass per unit volume	ČSN 72 1010, method A, D-1	Bound and unbound mixtures; soils	-
67 - 68	Reserved			
69*	Determination of dynamic modulus of deformation – light dynamic plate method	ČSN 73 6192, Group C	Bound and unbound mixtures; soils	-
70*	Determination of static modulus of deformation – Static load test	ČSN 72 1006, Annex A, B, D	Bound and unbound mixtures; soils	-
71	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
72 - 300	Reserved			
301	Determination of soluble binder content	ČSN EN 12697-1	Bituminous mixtures	-
302	Determination of particle size distribution	ČSN EN 12697-2+A1	Bituminous mixtures	-
303	Determination of the maximum density	ČSN EN 12697-5, Procedure A	Bituminous mixtures	-
304	Determination of bulk density of bituminous specimens	ČSN EN 12697-6	Bituminous mixtures	-
305	Determination of the air void content of bituminous mixture	ČSN EN 12697-8	Bituminous mixtures	-

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CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Subject of the test	Degrees of freedom[3]
306*	Measurement of temperature	ČSN EN 12697-13	Bituminous mixtures	-
307	Determination of the dimensions of bituminous specimens	ČSN EN 12697-29, cl. 3.1, 3.2	Bituminous mixtures	-
308	Determination of the thickness of a bituminous pavement	ČSN EN 12697-36, cl. 6.1	Bituminous layers	-
309	Test of pavement – degree of compaction	ČSN 73 6160, cl. 7.2, method a), c)	Bituminous layers	-

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
V1	Aggregate sampling	ČSN EN 932-1	Aggregates
V2 - V5	Reserved		
V6	Bituminous mixture sampling	ČSN EN 12697-27 except cl. 4.2, 4.8	Bituminous mixtures

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8. **Srch**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
1*	Determination of consistency - Slump test	ČSN EN 12350-2	Fresh concrete	-
2 - 3	Reserved			
4*	Determination of mass per unit volume	ČSN EN 12350-6, except cl. 6.4.2.1	Fresh concrete	-
5*	Determination of air content - pressure method	ČSN EN 12350-7, chap. 5, except cl. 5.2.3.1, Annex A, C	Fresh concrete	-
6	Determination of mass per unit volume	ČSN EN 12390-7, except cl. 5.5.6	Hardened concrete	-
7	Determination of compressive strength of test specimens	ČSN EN 12390-3, except cl. A.3, A.5	Hardened concrete	-
8 - 10	Reserved			
11	Determination of depth of penetration of water under pressure	ČSN EN 12390-8	Hardened concrete	-
12	Reserved			
13	Determination of compressive strength of cored specimens	ČSN EN 12504-1, cl. 8	Hardened concrete	-
14 - 17	Reserved			
18	Determination of the volume of voids	ČSN 73 6124-2, Annex A	Hardened concrete	-
19 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	-
42	Assessment of fines – Sand equivalent test	ČSN EN 933-8+A1	Aggregates	-
43	Determination of particle density and water absorption	ČSN EN 1097-6	Aggregates	-
44 - 46	Reserved			
47	Determination of grain size	ČSN EN 933-1	Aggregates	-
48	Determination of loose bulk density and voids	ČSN EN 1097-3	Aggregates	-
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	-

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CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
50 - 60	Reserved			
61	Geotechnical investigation and testing - determination of the particle size distribution of soils	ČSN EN ISO 17892-4	Soils	-
62	Determination of Atterberg limits – liquid limit, plastic limit	ČSN EN ISO 17892-12	Soils	-
63	Test methods for laboratory reference density and water content	ČSN EN 13286-2	Bound and unbound mixtures; soils	-
64	Determination of minimum and maximum compactness	ČSN 72 1018	Soils	-
65	Determination of California bearing ratio, immediate bearing index and linear swelling	ČSN EN 13286-47	Bound and unbound mixtures; soils	-
66*	Determination of mass per unit volume	ČSN 72 1010, method A, D-1	Bound and unbound mixtures; soils	-
67 - 68	Reserved			
69*	Determination of dynamic modulus of deformation – light dynamic plate method	ČSN 73 6192, Group C	Bound and unbound mixtures; soils	-
70*	Determination of static modulus of deformation – Static load test	ČSN 72 1006, Annex A, B, D	Bound and unbound mixtures; soils	-
71	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
72 - 90	Reserved			
91*	Determination of layer adhesion and tensile strength of surface layers	ČSN 73 6242, Annex B	Concrete structures and components, insulation layers	-
92 - 95	Reserved			
96*	Measurement of pavement surface macrotexture depth using a volumetric patch technique	ČSN EN 13036-1	Road surface	-
97*	Roughness measurement	ČSN 73 6175, cl. 8.9	Road surface	-
98 - 300	Reserved			
301	Determination of soluble binder content	ČSN EN 12697-1	Bituminous mixtures	-

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CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
302	Determination of particle size distribution	ČSN EN 12697-2+A1	Bituminous mixtures	-
303	Determination of the maximum density	ČSN EN 12697-5, Procedure A	Bituminous mixtures	-
304	Determination of bulk density of bituminous specimens	ČSN EN 12697-6	Bituminous mixtures	-
305	Determination of the air void content of bituminous mixture	ČSN EN 12697-8	Bituminous mixtures	-
306*	Measurement of temperature	ČSN EN 12697-13	Bituminous mixtures	-
307	Determination of the dimensions of bituminous specimens	ČSN EN 12697-29, cl. 3.1, 3.2	Bituminous mixtures	-
308	Determination of the thickness of a bituminous pavement	ČSN EN 12697-36, cl. 4.1	Bituminous layers	-
309*	Test of pavement – degree of compaction	ČSN 73 6160, cl. 7.2 method a), b), c)	Bituminous layers	-
310	Shear test of connection of bituminous layers	ČSN 73 6160 cl. 7.3	Bituminous layers	-

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
V1	Aggregate sampling Reduction of aggregate samples	ČSN EN 932-; ČSN EN 932-2	Aggregates
V2	Fresh concrete sampling	ČSN EN 12350-1	Fresh concrete
V3	Hardened concrete sampling	ČSN EN 12504-1, cl. 1 - 7	Hardened concrete
V4 - V5	Reserved		
V6	Bituminous mixture sampling	ČSN EN 12697-27 except cl. 4.2, 4.8	Bituminous mixtures

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CAB number 1135.2, Central Laboratory Prague
Rohanský ostrov 641, 186 00 Praha 8

9. **Lišov**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
1*	Determination of consistency - Slump test	ČSN EN 12350-2	Fresh concrete	-
2 - 3	Reserved			
4*	Determination of mass per unit volume	ČSN EN 12350-6, except cl. 6.4.2.1	Fresh concrete	-
5*	Determination of air content - pressure method	ČSN EN 12350-7, chap. 5, except cl. 5.2.3.1, Annex A, C	Fresh concrete	-
6	Determination of mass per unit volume	ČSN EN 12390-7, except cl. 5.5.6	Hardened concrete	-
7	Determination of compressive strength of test specimens	ČSN EN 12390-3, except cl. A.3, A.5	Hardened concrete	-
8 - 10	Reserved			
11	Determination of depth of penetration of water under pressure	ČSN EN 12390-8	Hardened concrete	-
12	Reserved			
13	Determination of compressive strength of cored specimens	ČSN EN 12504-1, cl. 8	Hardened concrete	-
14 - 17	Reserved			-
18	Determination of the volume of voids	ČSN 73 6124-2, Annex A	Hardened concrete	-
19 - 40	Reserved			
41	Determination of particle shape - Shape index	ČSN EN 933-4	Aggregates	-
42	Assessment of fines – Sand equivalent test	ČSN EN 933-8+A1	Aggregates	-
43	Determination of particle density and water absorption	ČSN EN 1097-6	Aggregates	-
44 - 46	Reserved			
47	Determination of grain size	ČSN EN 933-1	Aggregates	-
48	Determination of loose bulk density and voids	ČSN EN 1097-3	Aggregates	-
49	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5	Aggregates	-

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CAB number 1135.2, Central Laboratory Prague

Rohanský ostrov 641, 186 00 Praha 8

Ordinal number[1]	Test procedure / method name	Test procedure / method identification [2]	Subject of the test	Degrees of freedom[3]
50 - 60	Reserved			
61	Geotechnical investigation and testing - determination of the particle size distribution of soils	ČSN EN ISO 17892-4	Soils	-
62	Determination of Atterberg limits – liquid limit, plastic limit	ČSN EN ISO 17892-12	Soils	-
63	Test methods for laboratory reference density and water content	ČSN EN 13286-2	Bound and unbound mixtures; soils	-
64	Determination of minimum and maximum compactness	ČSN 72 1018	Soils	-
65	Determination of California bearing ratio, immediate bearing index and linear swelling	ČSN EN 13286-47	Bound and unbound mixtures; soils	-
66*	Determination of mass per unit volume	ČSN 72 1010, method A, D-1	Bound and unbound mixtures; soils	-
67 - 68	Reserved			
69*	Determination of dynamic modulus of deformation – light dynamic plate method	ČSN 73 6192, Group C	Bound and unbound mixtures; soils	-
70*	Determination of static modulus of deformation – Static load test	ČSN 72 1006, Annex A, B, D	Bound and unbound mixtures; soils	-
71	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
72 - 90	Reserved			
91*	Determination of layer adhesion and tensile strength of surface layers	ČSN 73 6242, Annex B	Concrete structures and components, insulation layers	-
92 - 95	Reserved			
96*	Measurement of pavement surface macrotexture depth using a volumetric patch technique	ČSN EN 13036-1	Road surface	-
97*	Roughness measurement	ČSN 73 6175, cl. 8.9	Road surface	-
98-305	Reserved			

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CAB number 1135.2, Central Laboratory Prague

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[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 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	Aggregate sampling Reduction of aggregate samples	ČSN EN 932-1 ČSN EN 932-2	Aggregates
2	Fresh concrete sampling	ČSN EN 12350-1	Fresh concrete
3	Hardened concrete sampling	ČSN EN 12504-1, cl. 1 - 7	Hardened concrete

[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 edition of the specified procedure is used (including any changes)