

**The Appendix is an integral part of  
Certificate of Accreditation No. 338/2023 of 22/06/2023**

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

**SQZ, s.r.o.**

CAB number 1135.1, Central Laboratory in Olomouc  
U místní dráhy 939/5, Nová Ulice, 779 00 Olomouc

**Testing laboratory workplaces:**

- |    |                              |  |
|----|------------------------------|--|
| 1. | <b>Olomouc</b>               | U místní dráhy 939/5, Nová Ulice, 779 00 Olomouc |
| 2. | <b>Measurement of sewage</b> | U místní dráhy 939/5, Nová Ulice, 779 00 Olomouc |
| 3. | <b>Chotýšany</b>             | Chotýšany 86, 257 28 Chotýšany                   |

1. **Olomouc**

**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 consistency – flow table test	ČSN EN 12350-5; STN EN 12350-5;	Fresh concrete
3*	Determination of mass per unit volume	ČSN EN 12350-6; STN EN 12350-6;	Fresh concrete
4*	Determination of air content – pressure method	ČSN EN 12350-7, excl. cl. 5; STN EN 12350-7, excl. cl. 5	Fresh concrete
5	Determination of compressive strength	ČSN EN 12390-3; STN EN 12390-3	Hardened concrete
6	Determination of flexural strength	ČSN EN 12390-5; STN EN 12390-5	Hardened concrete
7	Determination of mass per unit volume	ČSN EN 12390-7; STN EN 12390-7	Hardened concrete
8	Determination of depth of penetration of water under pressure	ČSN EN 12390-8; STN EN 12390-8	Hardened concrete
9*	Hardness testing methods - Determination of rebound number by Schmidt impact hammer	ČSN EN 12504-2; ČSN 73 1373, except annexes A and B; STN EN 12504-2; STN 73 1373, except annexes A and B	Hardened concrete
10	Determination of concrete frost resistance	ČSN 73 1322; STN 73 1322	Hardened concrete

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Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/ method identification <sup>2</sup>	Tested object
11	Determination of resistance to water and chemical de-icing agents	ČSN 73 1326, method A, C; STN 73 1326, method A, C	Hardened concrete
12	Determination of the volume of voids	ČSN 73 6124-2, annex A. 2	Hardened concrete
13	Determination of the thickness of a concrete pavement from cores	ČSN EN 13863-3	Hardened concrete
14*	Compressive strength of young sprayed concrete method A – penetration needle method B – stud driving	ČSN EN 14488-2; STN EN 14488-2	Sprayed concrete
15	Determination of thickness of concrete on a substrate	ČSN EN 14488-6; STN EN 14488-6	Sprayed concrete
16	Determination of flexural strength and compressive strength	ČSN EN 196-1, except chap. 5, 6, 7, 8, 11 annex A STN EN 196-1, except chap. 5, 6, 7, 8, 11 annex A	Cements
17	Determination of flexural strength and compressive strength	ČSN EN 13892-2; STN EN 13892-2	Screed materials
18-29	Reserved		
30	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1; STN EN 933-1	Aggregates
31	Determination of particle shape - Flakiness index	ČSN EN 933-3; STN EN 933-3	Aggregates
32	Determination of particle shape - Shape index	ČSN EN 933-4; STN EN 933-4	Aggregates
33	Determination of percentage of crushed and broken surfaces in coarse aggregate particles	ČSN EN 933-5; STN EN 933-5	Aggregates
34	Assessment of fines – Sand equivalent test	ČSN EN 933-8+A1; STN EN 933-8+A1	Aggregates
35	Assessment of fines – Methylene blue test	ČSN EN 933-9; STN EN 933-9	Aggregates
36	Determination of resistance to fragmentation - LA method	ČSN EN 1097-2, cl. 1-5; STN EN 1097-2, cl. 1-5	Aggregates
37	Determination of loose bulk density and voids	ČSN EN 1097-3, except annex A; STN EN 1097-3, except annex A	Aggregates

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Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/ method identification <sup>2</sup>	Tested object
38	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5; STN EN 1097-5	Aggregates
39	Determination of particle density and water absorption	ČSN EN 1097-6; STN EN 1097-6	Aggregates
40	Determination of the particle density of filler - Pycnometer method	ČSN EN 1097-7; STN EN 1097-7	Aggregates
41	Determination of resistance to freezing and thawing	ČSN EN 1367-1; STN EN 1367-1	Aggregates
42	Determination of various aggregate particles	ČSN 72 1180	Aggregates
43	Determination of dense aggregate durability by accelerated test with sodium sulphate	ČSN 72 1176, method A	Aggregates
44	Determination of thermal and weathering properties – Magnesium sulphate test	ČSN EN 1367-2; STN EN 1367-2	Aggregates
45-59	Reserved		
60	Determination of the water content of a soil	ČSN EN ISO 17892-1	Soils
61	Determination of particle size distribution of soils	ČSN EN ISO 17892-4	Soils
62	Determination of Atteberg limits	ČSN EN ISO 17892-12, except chap. 5.4	Soils
63	Determination of laboratory reference density and water content – Proctor test	ČSN EN 13286-2, excl. cl. 7.3, 7.6 and annex B; STN EN 13286-2, excl. cl. 7.3, 7.6 and annex B	Soils, Base courses
64	Determination of compressive strength of hydraulically bound mixtures	ČSN EN 13286-41; STN EN 13286-41	Hydraulically bound mixtures

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Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/ method identification <sup>2</sup>	Tested object
65	Determination of California bearing ratio, immediate bearing index and linear swelling	ČSN EN 13286-47; STN EN 13286-47	Soils, Base courses
66*	Determination of soil density	ČSN 72 1010, method A, D-1; STN 72 1010, method A, D-1	Soils
67	Laboratory determination of minimal and maximal compactness	ČSN 72 1018	Soils
68*	Static loading test	ČSN 72 1006, annex A, B, D; STN 73 6133, annex F	Soils, base courses
69	Determination of resistance to freezing and water of hydraulically bound mixtures	ČSN 73 6124-1, annex A	Hydraulically bound mixtures
70*	In situ determination of California bearing ratio, immediate bearing index	ČSN 73 6186	Soils, base courses
71*	Measurement of dynamic deformation modulus by LDD	ČSN 73 6192, group C; STN 73 6192, group C	Soils, base courses
72-79	Reserved		
80	Determination of needle penetration	ČSN EN 1426; STN EN 1426	Bituminous binders
81	Determination of the softening point – Ring and Ball method	ČSN EN 1427; STN EN 1427	Bituminous binders
82	Determination of adhesion of bituminous binder to aggregate	ČSN 73 6161	Bituminous binders
83	Determination of soluble binder content	ČSN EN 12697-1; STN EN 12697-1	Bituminous mixtures
84	Determination of particle size distribution	ČSN EN 12697-2+A1; STN EN 12697-2+A1	Bituminous mixtures
85	Determination of the maximum density	ČSN EN 12697-5, Procedure A; STN EN 12697-5, Procedure A	Bituminous mixtures
86	Determination of bulk	ČSN EN 12697-6;	Bituminous mixtures

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Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/ method identification <sup>2</sup>	Tested object
	density of bituminous specimens	STN EN 12697-6	
87	Determination of the air void content of bituminous mixture	ČSN EN 12697-8; STN EN 12697-8	Bituminous mixtures
88	ITSR - Determination of the water sensitivity of bituminous specimen Determination of the indirect tensile strength	ČSN EN 12697-12, method A; ČSN EN 12697-23; STN EN 12697-12, method A; STN EN 12697-23	Bituminous mixtures
89*	Measurement of temperature	ČSN EN 12697-13; STN EN 12697-13	Bituminous mixtures
90	Determination of water content	ČSN EN 12697-14; STN EN 12697-14	Bituminous mixtures
91	Determination of the binder drainage	ČSN EN 12697-18, chap. 5; STN EN 12697-18, chap. 5	Bituminous mixtures
92	Wheel tracking test (small test device)	ČSN EN 12697-22; STN EN 12697-22	Bituminous mixtures
93	Determination of the dimensions of bituminous specimens	ČSN EN 12697-29, cl. 3.1, 3.2; STN EN 12697-29, cl. 3.1, 3.2	Bituminous mixtures
94	Marshall test	ČSN EN 12697-34; STN EN 12697-34	Bituminous mixtures
95	Determination of the thickness of a bituminous pavement	ČSN EN 12697-36, cl. 4.1; STN EN 12697-36, cl. 4.1	Bituminous layers
96*	Test of pavement – degree of compaction	ČSN 73 6160, cl. 7.2, method a), c); STN 73 6160, cl. 6.4; STN EN 12697-7	Bituminous layers
97	Shear test of connection of bituminous layers	ČSN 73 6160, cl. 7.3	Bituminous layers
98-110	Reserved		
111*	Leakage test of damp-proofing seal weld	IP-SQZ-2	Damp-proofing
112*	Measurement of coating thickness by magnetic	ČSN EN ISO 2178	Non-magnetic coatings on magnetic

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Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/ method identification <sup>2</sup>	Tested object
	method		substrates
113*	Irregularity measurement of pavement courses	ČSN 73 6175, chap. 8 and 9	Road surface
114*	Determination of layer adhesion and tensile strength of surface layers	ČSN 73 6242, annex B	Road surface layers and insulating strata series
115*	Measurement of bond strength by pull-off	ČSN EN 1542; STN EN 1542	Products and systems for protection of concrete structures
116*	Measurement of pavement surface macrotexture depth using a volumetric patch technique	ČSN EN 13036-1; STN EN 13036-1	Pavement surface properties
117*	Determination of load-bearing capacity	IP-SQZ-3 (ČSN EN 1537; ČSN EN 14490; ČSN EN ISO 22477-5; STN EN 1537; STN EN 14490; STN EN ISO 22477-5)	Rock bolts, rock anchors

<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)

IP – internal regulation

ITSR – indirect tensile strength ratio

TKP – quality specifications

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**Sampling:**

Ordinal number	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Sampled object
VB1	Fresh concrete sampling	ČSN EN 12350-1; STN EN 12350-1	Fresh concrete
VB2	Sampling - cored specimens	ČSN EN 12504-1, cl. 4-5; STN EN 12504-1, cl. 4-5	Hardened concrete
VB3	Fresh and hardened concrete sampling	ČSN EN 14488-1; STN EN 14488-1	Sprayed concrete
VK1	Aggregate sampling	ČSN EN 932-1; STN EN 932-1	Aggregates
VA1	Bituminous mixture sampling	ČSN EN 12697-27, except cl. 4.2, 4.8; STN EN 12697-27, excl. cl. 4.2, 4.8	Bituminous mixtures

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**2. Measurement of sewage**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/method identification <sup>2</sup>	Tested object
200*	Determination of watertightness	ČSN 75 6909, chap. 8.4, (method „L“)	Drains and sewers
201*	Measurement of flow cross section	IP-SQZ-4 (ČSN EN 13508-1, cl. 5.8.4 b)	Drains and sewers
202*	Measurement of inclination	IP-SQZ-5 (TKP chap. 3, Amendment No. 1, No. 3.P2.3; ČSN EN 13508-1)	Drains and sewers

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IP – internal regulation

TKP – quality specifications



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**3. Chotýšany**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/method identification <sup>2</sup>	Tested object
1-29	Reserved		
30	Determination of particle size distribution – Sieving analysis	ČSN EN 933-1; STN EN 933-1	Aggregates
31	Reserved		
32	Determination of particle shape - Shape index	ČSN EN 933-4; STN EN 933-4	Aggregates
33	Reserved		
34	Assessment of fines – Sand equivalent test	ČSN EN 933-8+A1; STN EN 933-8+A1	Aggregates
35-37	Reserved		
38	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5; STN EN 1097-5	Aggregates
39-67	Reserved		
68*	Static loading test	ČSN 72 1006, annex A, B, D	Soils, base courses
69-70	Reserved		
71*	Measurement of dynamic deformation modulus by LDD	ČSN 73 6192, Group C	Soils, base courses
72-79	Reserved		
80	Determination of needle penetration	ČSN EN 1426; STN EN 1426	Bituminous binders
81	Determination of the softening point – Ring and Ball method	ČSN EN 1427; STN EN 1427	Bituminous binders
82	Determination of adhesion of bituminous binder to aggregate	ČSN 73 6161	Bituminous binders
83	Determination of soluble binder content	ČSN EN 12697-1; STN EN 12697-1	Bituminous mixtures
84	Determination of particle size distribution	ČSN EN 12697-2+A1; STN EN 12697-2+A1	Bituminous mixtures
85	Determination of the maximum density	ČSN EN 12697-5, Procedure A; STN EN 12697-5, Procedure A	Bituminous mixtures

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Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/method identification <sup>2</sup>	Tested object
86	Determination of bulk density of bituminous specimens	ČSN EN 12697-6; STN EN 12697-6	Bituminous mixtures
87	Determination of the air void content of bituminous mixture	ČSN EN 12697-8; STN EN 12697-8	Bituminous mixtures
88	ITSR - Determination of the water sensitivity of bituminous specimen Determination of the indirect tensile strength	ČSN EN 12697-12, method A; ČSN EN 12697-23; STN EN 12697-12, method A; STN EN 12697-23	Bituminous mixtures
89*	Measurement of temperature	ČSN EN 12697-13; STN EN 12697-13	Bituminous mixtures
90	Reserved		
91	Determination of the binder drainage	ČSN EN 12697-18, chap. 5; STN EN 12697-18, chap. 5	Bituminous mixtures
92	Reserved		
93	Determination of the dimensions of bituminous specimens	ČSN EN 12697-29, cl. 3.1, 3.2; STN EN 12697-29, cl. 3.1, 3.2	Bituminous mixtures
94	Reserved		
95	Determination of the thickness of a bituminous pavement	ČSN EN 12697-36, cl. 4.1	Bituminous layers
96*	Test of pavement – degree of compaction	ČSN 73 6160, cl. 7.2, method a), c)	Bituminous layers
97	Shear test of connection of bituminous layers	ČSN 73 6160, cl. 7.3	Bituminous layers
98-112	Reserved		
113*	Irregularity measurement of pavement courses	ČSN 73 6175, chap. 8 and 9	Road surface

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ITSR – indirect tensile strength ratio

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**Sampling:**

Ordinal number	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Sampled object
VB1- VB3	Reserved		
VK1	Aggregate sampling	ČSN EN 932-1; STN EN 932-1	Aggregates
VA1	Bituminous mixture sampling	ČSN EN 12697-2, except cl. 4.2, 4.8; STN EN 12697-27, except cl. 4.2, 4.8	Bituminous mixtures

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