

**The Appendix is an integral part of
Certificate of Accreditation No.: 50/2024 of 05/02/2024**

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

České vysoké učení technické v Praze
CAB number 1048, Faculty of Civil Engineering – Testing Laboratory
Thákurova 2077/7, 166 29 Praha 6

Testing laboratory locations:

- | | |
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| 1. OL 124 Building Structures Laboratory | |
| 2. OL 132 Structural Mechanics Laboratory | Thákurova 2077/7, 166 29 Praha 6 |
| 3. OL 133 Concrete Structures Laboratory | Thákurova 2077/7, 166 29 Praha 6 |
| 4. OL 134 Steel Structures Laboratory | Thákurova 2077/7, 166 29 Praha 6 |
| 5. OL 135 Geotechnics Laboratory | Thákurova 2077/7, 166 29 Praha 6 |
| 6. OL 136 Road Structures Laboratory | Thákurova 2077/7, 166 29 Praha 6 |
| 7. OL 137 Railway Structures Laboratory | Thákurova 2077/7, 166 29 Praha 6 |
| 8. OL 181a Experimental Centre Laboratory (FSv) | Thákurova 2077/7, 166 29 Praha 6 |
| 9. OL 181b Experimental Centre Laboratory (UCEEB) | Třinecká 1024, 273 43 Buštěhrad |
| 10. OL 182 Experimental Geotechnics Centre Laboratory | Chotilsko - Smilovice 93, 263 01 Dobříš |

Detailed information on activities within the scope of accreditation (source literature) is given in the section „Specification of the scope of accreditation“.

1. OL 124 Building Structures Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of resistance to moulds - assessment of the effect of microorganisms	ČSN EN ISO 846, except Annex C	Plastics and building material	-
2	Determination of diffusion coefficient of radon	ISO/TS 11665-13	Water- and radon-proofing, building materials	-

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³ the laboratory does not apply a flexible approach to the scope of accreditation

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2. OL 132 Structural Mechanics Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1*	Static loading tests of building structures	ČSN 73 2030	Buildings, industrial buildings, machine foundations, civil engineering structures	-
2*	Dynamic tests of building structures	ČSN 73 2044	Buildings, industrial buildings, machine foundations, civil engineering structures	-
3*	Loading tests of bridges	ČSN 73 2030; ČSN 73 6209; STN 73 6209	Road bridges, motorway bridges, railway bridges, pedestrian and bicycle bridges, etc.	-
4	Determination of flexural strength	IZP 132-01/2014 (ČSN EN 196-1)	Mortars, cement- and plaster-based composite materials	-
5	Determination of compressive strength	IZP 132-02/2014 (ČSN EN 196-1)	Mortars, cement- and plaster-based composite materials	-

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3. OL 133 Concrete Structures Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of flexural strength working diagram	ČSN EN 12390-5	Concrete	-
2	Determination of the number of steel fibers	IZP 133-02/2007	Hardened steel-fibre-reinforced concrete	-
3	Determination of compressive strength	ČSN EN 12390-3	Concrete	-
4	Determination of tensile splitting strength of test specimens	ČSN EN 12390-6	Concrete	-
5	Determination of secant modulus of elasticity in compression	ČSN EN 12390-13	Concrete	-
6	Determination of density	ČSN EN 12390-7, except cl. 6.1, 6.3, 6.4, 6.5 and 6.7	Hardened concrete	-

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4. OL 134 Steel Structures Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Tensile test	ČSN EN ISO 6892-1	Steel elements	-
2	Charpy impact test	ČSN ISO 148-1	Steel elements	-

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5. OL 135 Geotechnics Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
2	Determination of particle size distribution	ČSN EN ISO 17892-4, except cl. 5.4	Soils	-
3	Determination of apparent density of solid particles	ČSN EN ISO 17892-3, except cl. 5.2	Soils	-

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6. OL 136 Road Structures Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of particle size distribution	ČSN EN 933-1	Aggregates	-
2	Determination of shape index	ČSN EN 933-4	Aggregates	-
3	Determination of water absorption and particle density	ČSN EN 1097-6, except Annex B, C, D, E	Aggregates	-
4	Determination of durability	ČSN EN 1367-2	Aggregates	-
5	Test of resistance to freezing and thawing	ČSN EN 1367-1	Aggregates	-
6	Test of resistance of aggregates to fragmentation	ČSN EN 1097-2	Aggregates	-
7	Determination of particle density	ČSN EN 1097-6	Aggregates	-
8	Determination of voids	ČSN EN 1097-3	Aggregates	-
9	Penetration test	ČSN EN 1426	Bitumen	-
10	Determination of the softening point	ČSN EN 1427	Bitumen	-
11	Determination of force ductility	ČSN EN 13589	Bitumen	-
12	Test of adhesion	ČSN 73 6161	Bitumen	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
13	Tests of finished layer - degree of compaction, layer bonding and void characteristics	ČSN 73 6160, cl. 7.2, (except cl. 7.2 b), 7.3, 7.4	Bituminous mixtures	-
14	Determination of soluble binder content, including sample preparation	ČSN EN 12697-1; ČSN EN 12697-28	Bituminous mixtures	-
15	Test of particle size distribution including sample preparation	ČSN EN 12697-2; ČSN EN 12697-28	Bituminous mixtures	-
16	Determination of maximum density	ČSN EN 12697-5	Bituminous mixtures	-
17	Determination of density	ČSN EN 12697-6	Bituminous mixtures	-
18	Determination of the thickness of a bituminous pavement	ČSN EN 12697-36, except cl. 4.2, 4.3, 4.4, 6.2	Bituminous mixtures	-
19	Determination of voids	ČSN EN 12697-8	Bituminous mixtures	-
20	Determination of water resistance including sample preparation	ČSN EN 12697-12; ČSN EN 12697-30	Bituminous mixtures	-
21	Determination of particle loss of drainage asphalt topping including sample preparation	ČSN EN 12697-17; ČSN EN 12697-30	Bituminous mixtures	-
22	Determination of the binder drainage	ČSN EN 12697-18	Bituminous mixtures	-
23	Determination of hardness number using cube or Marshall specimen	ČSN EN 12697-20	Bituminous mixtures	-
24	Determination of hardness number using plate specimen	ČSN EN 12697-21	Bituminous mixtures	-
25	Wheel tracking test, including preparation of samples	ČSN EN 12697-22; ČSN EN 12697-33	Bituminous mixtures	-
26	Determination of indirect tensile strength, including preparation of test specimens	ČSN EN 12697-23; ČSN EN 12697-30	Bituminous mixtures	-
27	Determination of the dimensions of bituminous specimens	ČSN EN 12697-29	Bituminous mixtures	-
28	Marshall test, including preparation of samples	ČSN EN 12697-30; ČSN EN 12697-34	Bituminous mixtures	-
29	Determination of stiffness - four-point bend test	ČSN EN 12697-26, Annex B	Bituminous mixtures	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
30	Determination of stiffness - Indirect tensile test of cylindrical test specimens	ČSN EN 12697-26, Annex C	Bituminous mixtures	-
31	Determination of fatigue resistance - four-point bend test	ČSN EN 12697-24, Annex D	Bituminous mixtures	-
32	Determination of reference density and water content – Proctor test	ČSN EN 13286-2	Unbound and hydraulically bound mixtures	-
33	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
34*	Static loading test	ČSN 72 1006, Annex A	Soils	-
35	Determination of the indirect tensile strength	ČSN EN 13286-42	Hydraulically bound mixtures	-

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7. OL 137 Railway Structures Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1*	Static loading test	ČSN 72 1006, Annex A, B; SŽ S4, 2021, Annex 5	Soils and backfills	-
2	Determination of moisture content	ČSN EN ISO 17892-1	Soils	-
3*	Measurement of noise	ČSN ISO 1996-1; ČSN ISO 1996-2; MoH CR Bulletin, 2023, Volume 14, Part 3	Non-working environment	-

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	SŽ S4, 2021, Annex 5 - Selected methods for determining the quality of the rail substructure
3	MoH CR Bulletin, 2023, Volume 14, Part 3 - Guideline for the measurement and evaluation of noise in non-workplace environment

8. OL 181a Experimental Centre Laboratory (FSv)

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1*	Loading tests	ČSN 73 2030	Building structures and their parts	-
2*	Dynamic tests	ČSN 73 2044	Building structures and their parts	-
3*	Loading tests	ČSN 73 2030; ČSN 73 6209; STN 73 6209	Road bridges, motorway bridges, railway bridges, pedestrian and bicycle bridges	-
4	Determination of flexural strength	ČSN EN 12390-3	Concrete, concrete products	-
5	Determination of density	ČSN EN 12390-7	Hardened concrete	-

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9. OL 181b Experimental Centre Laboratory (UCEEB)

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of modulus of elasticity and bending strength	ČSN EN 408+A1, except cl. 1 to 4, 8 to 9, 11 to 18	Structural timber, glued laminated timber	-
2*	Determination of airborne sound insulation	ČSN EN ISO 10140-1; ČSN EN ISO 10140-2; ČSN EN ISO 10140-4; ČSN EN ISO 16283-1; ČSN EN ISO 16283-3; ČSN EN ISO 717-1	Building elements and buildings	-
3*	Determination of impact sound insulation	ČSN EN ISO 10140-1; ČSN EN ISO 10140-3; ČSN EN ISO 10140-4; ČSN EN ISO 16283-2; ČSN EN ISO 717-2	Building elements and buildings	-
4*	Measurement of reverberation time	ČSN EN ISO 3382-1; ČSN EN ISO 3382-2	Building spaces	-
5	Determination of thermal resistance by means of heat flow meter	ČSN EN 12667	Building materials and products	-
6	Determination of water vapour transmission properties	ČSN EN ISO 12572	Building materials and products	-
7	Determination of thermal performance	ČSN EN ISO 9806, except cl. 6 to 19	Solar thermal collectors	-
8	Determination of mechanical properties	ČSN EN 1886, except cl. 10, 11	Air-handling unit casing	-
9	Measurement of performance parameters	ČSN EN 308	Heat exchangers for heat recovery in air handling technology	-

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10. OL 182 Experimental Geotechnics Centre Laboratory

Tests:

Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
1	Determination of the water content	ČSN EN ISO 17892-1	Soils	-
2	Determination of density	ČSN EN ISO 17892-2, except cl. 5.3	Soils	-
3	Determination of apparent density of solid particles	ČSN EN ISO 17892-3, except cl. 5.2	Soils	-
4	Determination of uniaxial compressive strength	ČSN EN 1926	Rocks	-
5	Determination of liquid and plastic limits	ČSN EN ISO 17892-12, except cl. 5.4	Soils	-

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Explanatory notes:

- CEN - Comité Européen de Normalisation (European Committee for Standardization)
- IZP - Internal Test Instruction
- TS - Technical Specification
- SŽ - Railway Administration