

**The Appendix is an integral part of
Certificate of Accreditation No. 162/2024 of 10/04/2024**

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

NIEVELT Labor CZ s.r.o.
CAB number 1716, Testing Laboratory
Za Olomouckou 4184/17, 796 01 Prostějov

Testing laboratory workplace:

- | | | |
|----|-------------------------------------|---|
| 1. | Testing Laboratory | Za Olomouckou 4184/17, 796 01 Prostějov |
| 2. | Mobile Testing Laboratory | According to current location |
| 3. | Mobile Testing Laboratory II | According to current location |

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested subject	Degrees of freedom ³
1 ^{1,2}	Determination of soluble binder content	ČSN EN 12697-1; STN EN 12697-1	Bituminous mixture	-
2 ^{1,2}	Determination of particle size distribution	ČSN EN 12697-2+A1; STN EN 12697-2+A1	Bituminous mixture	-
3 ¹	Marshall test	ČSN EN 12697-34	Bituminous mixture	-
4 ^{1,2}	Determination of the maximum density	ČSN EN 12697-6; STN EN 12697-6	Bituminous mixture	-
5 ^{1,2}	Determination of bulk density of bituminous specimens	ČSN EN 12697-6; STN EN 12697-6	Bituminous mixture	-
6 ^{1,2}	Determination of void content	ČSN EN 12697-8; STN EN 12697-8	Bituminous mixture	-
7 ^{1,2}	Determination of the dimensions of a bituminous specimen	ČSN EN 12697-29; STN EN 12697-29	Bituminous mixture	-
8 ¹	Determination of the water sensitivity of bituminous specimens	ČSN EN 12697-12; STN EN 12697-12	Bituminous mixture	-
9 ¹	Determination of the indirect tensile strength of bituminous specimens	ČSN EN 12697-23; STN EN 12697-23	Bituminous mixture	-
10 ^{1*}	Temperature measurement	ČSN EN 12697-13; STN EN 12697-13	Bituminous mixture	-
11 ¹	Determination of binder drainage	ČSN EN 12697-18, Article 5; STN EN 12697-18, Article 5	Bituminous mixture	-
12 ¹	Wheel tracking test	ČSN EN 12697-22, Method B, Article 6.3; STN EN 12697-22, Method B, Article 6.3	Bituminous mixture	-

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested subject	Degrees of freedom ³
13 ¹	Determination of the thickness	ČSN EN 12697-36, except Article 6.2; STN EN 12697-36, except Article 6.2	Pavement course	-
14 ¹	Determination of shear bond strength between asphalt layers	ČSN 73 6160, Article 7.3	Pavement course	-
15 ¹	Determination of the degree of compaction	ČSN 73 6160, Article 7.2 Point a), b), c); STN 73 6160, Article 6.4 Point a), b), c)	Pavement course	-
16 ^{1*}	Impermeability of asphalt layers	STN 73 6242, Annex A	Pavement course	-
17 ¹	Determination of needle penetration	ČSN EN 1426; STN EN 1426	Bitumen and bituminous binders	-
18 ¹	Determination of the softening point - Ring and Ball method	ČSN EN 1427; STN EN 1427	Bitumen and bituminous binders	-
19 ^{1, 2, 3}	Determination of particle size distribution - Sieving method	ČSN EN 933-1; STN EN 933-1	Aggregates	-
20 ^{1, 2, 3}	Determination of the water content by drying in a ventilated oven	ČSN EN 1097-5; STN EN 1097-5	Aggregates	-
21 ¹	Determination of particle shape - Shape index	ČSN EN 933-4; STN EN 933-4	Aggregates	-
22 ¹	Determination of particle density and water absorption	ČSN EN 1097-6, except Article 9 and Annex D, E and F	Aggregates	-
23 ¹	Grading of filler aggregates (air jet sieving)	ČSN EN 933-10; STN EN 933-10	Aggregates	-
24 ¹	Methylene blue test	ČSN EN 933-9; STN EN 933-9	Aggregates	-
25 ^{1, 2, 3}	Determination of water content	ČSN EN ISO 17892-1; STN EN ISO 17892-1	Soils	-
26 ^{1, 3}	Determination of particle size distribution	ČSN EN ISO 17892-4, except Article 5.4; STN EN ISO 17892-4, except Article 5.4	Soils	-

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Ordinal number¹	Test procedure/method name	Test procedure/method identification²	Tested subject	Degrees of freedom³
27 ^{1,3}	Determination of liquid and plastic limits	ČSN EN ISO 17892-12, except Article 5.4; STN EN ISO 17892-12, except Article 5.4	Soils	-
28 ^{1,3}	Determination of particle density using pycnometer	ČSN EN ISO 17892-3; STN EN ISO 17892-3	Soils	-
29 ^{1,3}	Determination of compactability – Proctor test	ČSN EN 13286-2, except Method C; STN EN 13286-2, except Method C; STN 72 1015	Soils	-
30 ^{1,3}	Determination of California Bearing ratio, immediate bearing index and linear swelling	ČSN EN 13286-47; STN EN 13286-47	Soils	-
31 ^{1*}	Determination of the degree of compaction with radiometric method	ČSN 72 1006, Annex F; ČSN 73 1375; STN 73 1375	Soils	-
32 ^{1*}	Determination of density with a membrane densitometer	ČSN 72 1010, Method D-1; STN 72 1010:1989, Method D-1	Soils and loose-fill materials	-
33 ^{1*}	Static load plate test	ČSN 72 1006, Annex A, B, D; STN 73 6190	Soils and loose-fill materials	-
34 ^{1*}	Impact load plate test with the Light Falling Weight Device	ČSN 73 6192, Group C; STN 73 6192, except Articles 6.2, 6.3, 8.1, 8.2	Soils and loose-fill materials	-
35 ^{1*}	Irregularity measurement of pavement courses	ČSN 73 6175, Article 8, 9; STN EN 13036-7	Construction layers	-
36 ^{1*}	Measurement of pavement surface macrotexture depth using a volumetric patch technique	ČSN EN 13036-1; STN EN 13036-1	Construction layers	-
37 ^{1*}	Determination of the position of dowels and tie-bars	IZP001 (ČSN 73 6123-1; TP 233)	Construction layers	-
38 ^{1*}	Determination of the thickness of bound pavement courses	IZP002 (TP 233)	Construction layers	-

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested subject	Degrees of freedom ³
39 ^{1*}	Determination of adhesion strength and tensile strength of surface layers	ČSN 73 6242, Annex B; STN 73 6242, Annex B	Surface treatments Construction layers	-
40 ^{1*}	Impermeability measurements of layers	ČSN 73 6242, Annex D	Surface treatments Construction layers	-
41 ^{1*}	Measurement of coefficient of retroreflection	IZP003 (ČSN EN 12899-1; ČSN EN 12899-3; STN EN 12899-1; STN EN 12899-3)	Vertical road traffic signs, traffic safety equipment	-
42 ^{1*}	Measurement of luminance factor and daylight chromaticity	IZP004 (ČSN EN 12899-1; ČSN EN 12899-3; STN EN 12899-1; STN EN 12899-3)	Vertical road traffic signs, traffic safety equipment	-
43 ^{1*}	Measurement of chromaticity coordinates and luminance factor	IZP005 (ČSN EN 1436; TP 70; STN EN 1436)	Applied road marking materials, road marking, traffic safety equipment, paints and varnishes	-
44 ^{1*}	Measurement of luminance coefficient under diffuse illumination	IZP006 (ČSN EN 1436; TP 70; STN EN 1436)	Applied road marking materials, road marking, traffic safety equipment	-
45 ^{1*}	Measurement of coefficient of retroreflected luminance	IZP007 (ČSN EN 1436; TP 70; STN EN 1436)	Applied road marking materials, road marking, traffic safety equipment	-
46 ^{1*}	Measurement of slip/skid resistance of a surface – the pendulum test	ČSN EN 1436; ČSN EN 13036-4; STN EN 1436; STN EN 13036-4	Applied road marking materials, road marking, road and airfield surfaces, traffic safety equipment, ramps	-
47 ^{1*}	Determination of consistence – slump test	ČSN EN 12350-2; STN EN 12350-2	Fresh concrete	-

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested subject	Degrees of freedom ³
48 ^{1*}	Determination of degree of compactability	ČSN EN 12350-4; STN EN 12350-4	Fresh concrete	-
49 ^{1*}	Determination of consistence – flow table test	ČSN EN 12350-5; STN EN 12350-5	Fresh concrete	-
50 ^{1*}	Determination of density	ČSN EN 12350-6; STN EN 12350-6	Fresh concrete	-
51 ^{1*}	Determination of air content – pressure gauge method	ČSN EN 12350-7, except Article 5; STN EN 12350-7, except Article 5	Fresh concrete	-
52 ¹	Determination of compressive strength	ČSN EN 12390-3; STN EN 12390-3; ČSN EN 12504-1, except Article 5 and 6; STN EN 12504-1, except Article 5 and 6; STN 73 1317	Hardened concrete	-
53 ¹	Determination of flexural strength	ČSN EN 12390-5; STN EN 12390-5	Hardened concrete	-
54 ¹	Determination of tensile splitting strength	ČSN EN 12390-6; STN EN 12390-6	Hardened concrete	-
55 ¹	Determination of density	ČSN EN 12390-7; STN EN 12390-7	Hardened concrete	-
56 ¹	Determination of depth of penetration of water under pressure	ČSN EN 12390-8; STN EN 12390-8	Hardened concrete	-
57 ¹	Determination of resistance of surface to water and defrosting chemicals	ČSN 73 1326, Methods A and C; STN 73 1326, Method A	Hardened concrete	-
58 ¹	Determination of frost resistance	ČSN 73 1322; STN 73 1322	Hardened concrete	-
59 ¹	Determination of moisture content and absorptivity	IZP008 (ČSN 73 1316:1990); STN 73 1316	Hardened concrete	-
60 ^{1*}	Determination of hardness using rebound hammer	ČSN 73 1373; STN 73 1373; ČSN EN 12504-2;	Hardened concrete	-

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested subject	Degrees of freedom ³
		STN EN 12504-2		
61 ¹	Determination of compressive strength	ČSN EN 13286-41; STN EN 13286-41	Hydraulically bound mixtures	-
62 ¹	Determination of frost and water resistance	ČSN 73 6124-1, Annex A	Hydraulically bound mixtures	-
63 ¹	Determination of layer thickness on cores	ČSN EN 13863-3; STN EN 13863-3	Hardened concrete	-

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises. the numerical index in the ordinal number of the test indicates the number of the workplace where the test is performed (identification of the workplaces is given on the first page of this document)

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

Sampling:

Ordinal number ²	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1 ^{1, 2}	Sampling of bituminous mixtures	ČSN EN 12697-27, except Article 4.2, 4.5, 4.6, 4.8, 4.9 and 4.10; STN EN 12697-27, except Article 4.2, 4.5, 4.6, 4.8, 4.9 and 4.10;	Bituminous mixture
2 ^{1, 2, 3}	Sampling of aggregates and reducing of laboratory samples	ČSN EN 932-1, except Article 8.2, 8.3, 8.4; STN EN 932-1, except Article 8.2, 8.3, 8.4; ČSN EN 932-2; STN EN 932-2	Aggregates
3 ¹	Sampling of fresh concrete	ČSN EN 12350-1; STN EN 12350-1	Fresh concrete
4 ¹	Sampling of hardened concrete (cored specimens from structures)	ČSN EN 12504-1, Article 5 and 6; STN EN 12504-1, Article 5 and 6	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)

² the numerical index in the ordinal number of the sampling indicates the number of the workplace which performs the sampling (identification of the workplaces is given on the first page of this document)

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Explanations:

ČSN Czech standard
STN Slovak standard
IZP Internal test method
VZD Vertical road traffic signs
TP Technical specifications of the Ministry of Transport of Czech Republic
CHRL defrosting chemicals