**The Appendix is an integral part of**
**Certificate of Accreditation No. 268/2023 of 31/05/2023**

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

**GEOSTAR, spol. s r.o.**
CAB number 1373, Testing Laboratory for Soil Mechanics
Tuřanka 240/111, 627 00 Brno

## Testing laboratory locations:

1. **Brno** Tuřanka 240/111, 627 00 Brno
2. **Hranice** Bělotínská 228, 753 01 Hranice
3. **Levice** Ku Bratke 3636, 934 01 Levice, Slovak Republic

*The laboratory is qualified to carry out independent sampling.*

1. **Brno**

## Tests:

| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Subject of the test | Degrees of freedom[3] |
|---|---|---|---|---|
| 1* | Determination of density | ČSN 72 1010, method D-1 | Pavement courses | - |
| 2 | Determination of apparent density of solid particles | ČSN EN ISO 17892-3, excl. cl. 4.4 | Soils | - |
| 3 | Determination of the water content | ČSN EN ISO 17892-1 | Soils | - |
| 4 | Determination of Atteberg limits | ČSN EN ISO 17892-12 | Soils | - |
| 5 | Determination of density and water content – Proctor test | ČSN EN 13286-2, excl. cl. 7.3 and 7.6 | Soils, aggregates | - |
| 6 | Determination of California bearing ratio (CBR) and immediate bearing index (IBI) | ČSN EN 13286-47 | Soils, aggregates | - |
| 7 | Determination of particle size distribution | ČSN EN ISO 17892-4, excl. cl. 4.4, 5.4, 6.3 | Soils | - |
| 8 | Determination of relative density | ČSN 72 1018 | Non-cohesive soils | - |
| 9* | Measurement of pavement surface roughness | ČSN 73 6175, cl. 8 and 9 | Pavement courses | - |
| 10* | Static plate load test of soils and subgrades of pavements | ČSN 73 6190<br>ČSN 72 1006, Annex A, B, D | Pavement courses | - |
| 11* | Impact loading tests of pavements and base courses | ČSN 73 6192, Group C | Pavement courses | - |
| 12 | Determination of compressive strength of hydraulically bound mixtures | ČSN EN 13286-41 | Pavement courses | - |
| 13 | Determination of particle size distribution | ČSN EN 933-1 | Aggregates | - |
| 14 | Determination of the water content | ČSN EN 1097-5 | Aggregates | - |
| 15 | Determination of particle density and water absorption | ČSN EN 1097-6, cl. 1-6, 8,10 | Aggregates | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Subject of the test | Degrees of freedom[3] |
|---|---|---|---|---|
| 16* | Determination of consistency - slump test | ČSN EN 12350-2 | Fresh concrete | - |
| 17* | Determination of air content - pressure method | ČSN EN 12350-7, excl. cl. 5 | Fresh concrete | - |
| 18 | Determination of compressive strength of test specimens | ČSN EN 12390-3 | Hardened concrete | - |
| 19 | Determination of mass per unit volume | ČSN EN 12390-7, excl. cl. 6.1.2a | Hardened concrete | - |
| 20* | Measurement of deformations by vertical inclinometer method | Internal testing procedure IZP 01-V/2016 | Subgrade | - |
| 21* | Measurement of deformations by horizontal inclinometer method | Internal testing procedure IZP 01-H/2016 | Subgrade | - |
| 22* | Measurement of pore pressures | Internal testing procedure IZP 02/2016 | Subgrade | - |
| 23* | Measurement of integrity by hammering method (PIT) | Internal testing procedure IZP 03/2019 | Piles | - |

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

## Sampling:

| Ordinal number | Sampling procedure name | Sampling procedure identification[1] | Subject of sampling |
|---|---|---|---|
| 1 | Aggregate sampling | ČSN EN 932-1, Change Z1 | Aggregates |
| 2 | Sampling of concrete | ČSN EN 12,350-1 | Fresh concrete |

[1] for dated documents identifying sampling procedures, only those specific procedures are used; for undated documents identifying sampling procedures, the most recent edition of that procedure (including any changes) is used

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2. **Hranice**

**Tests:**

| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Subject of the test | Degrees of freedom[3] |
|---|---|---|---|---|
| 1 - 100 | Reserved | | | |
| 101* | Determination of soil density | ČSN 72 1010, method D-1 | Pavement courses | - |
| 102 | Determination of apparent density of solid particles | ČSN EN ISO 17892-3, excl. cl. 4.4 | Soils | - |
| 103 | Determination of the water content | ČSN EN ISO 17892-1 | Soils | - |
| 104 | Determination of Atteberg limits | ČSN EN ISO 17892-12 | Soils | - |
| 105 | Determination of density and water content – Proctor test | ČSN EN 13286-2, excl. cl. 7.3 and 7.6 | Soils, aggregates | - |
| 106 | Determination of California bearing ratio (CBR) and immediate bearing index (IBI) | ČSN EN 13286-47 | Soils, aggregates | - |
| 107 | Determination of particle size distribution | ČSN EN ISO 17892- 4, excl. cl. 4.4, 5.4, 6.3 | Soils | - |
| 108 | Determination of relative density | ČSN 72 1018 | Non-cohesive soils | - |
| 109* | Measurement of pavement surface roughness | ČSN 73 6175, cl. 8 and 9 | Pavement courses | - |
| 110* | Static plate load test of soils and subgrades of pavements | ČSN 73 6190<br>ČSN 72 1006 Annex A, B, D | Pavement courses | - |
| 111* | Impact loading tests of pavements and base courses | ČSN 73 6192, Group C | Pavement courses | - |
| 112 | Reserved | | | |
| 113 | Determination of size distribution | ČSN EN 933-1 | Aggregates | - |
| 114 | Determination of the water content | ČSN EN 1097-5 | Aggregates | - |
| 115 | Determination of particle density and water absorption | ČSN EN 1097-6, cl. 1-6, 8-10 | Aggregates | - |

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## Sampling:

| Ordinal number | Sampling procedure name | Sampling procedure identification[1] | Subject of sampling |
|---|---|---|---|
| 1 - 100 | Reserved | | |
| 101 | Aggregate sampling | ČSN EN 932-1 | Aggregates |

[1] for dated documents identifying sampling procedures, only those specific procedures are used; for undated documents identifying sampling procedures, the most recent edition of that procedure (including any changes) is used

3. **Levice**

## 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 | Determination of density | STN 72 1010, method D-1 | Pavement courses | - |
| 202 | Determination of density and water content – Proctor test | STN 72 1015, cl. 6-14<br>STN EN 13286-2, cl. 71 | Soils, aggregates | - |
| 203* | Static plate load test of soils and subgrades of pavements | STN 73 6190 | Pavement courses | - |
| 204 | Impact loading tests of pavements and base courses | STN 73 6192 | Pavement courses | - |

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Explanatory notes:

CBR - California bearing ratio

IBI - Immediate bearing index

PIT - Pile integrity test