**EA MLA Signatory**
**Český institut pro akreditaci, o.p.s.**
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products, as amended

# CERTIFICATE OF ACCREDITATION

No. **580/2024**

**České vysoké učení technické v Praze**
**with registered office Jugoslávských partyzánů 1580/3, 160 00 Praha 6 - Dejvice,**
**Company Registration No. 68407700**

for the Testing Laboratory No. **1061**
Klokner Institute Testing Laboratory

Scope of accreditation:

Testing of mechanical, physical and rheological properties of building materials including sampling, static and dynamic tests of building structures, parts and components, including the determination of dynamic effects on structures to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the Conformity Assessment Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 237/2023 of 11/05/2023, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **11/05/2028**

Prague: 30/10/2024

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pp

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

**The Appendix is an integral part of**
**Certificate of Accreditation No: 580/2024 of 30/10/2024**

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

**České vysoké učení technické v Praze**
CAB number 1061, Klokner Institute Testing Laboratory
Šolínova 7, 166 08 Praha 6

*The laboratory provides opinions and interpretations of the test results.*
*The laboratory is qualified to carry out standalone sampling.*

**Tests:**

| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| **1** | **Bulk Density** | | | |
| 1.1* | Determination of bulk density | ČSN EN 12350-6 | Fresh concrete | - |
| 1.2* | Determination of bulk density | ČSN EN 1015-6 | Fresh mortar | - |
| 1.3 | Determination of bulk density | ČSN EN 12390-7 | Hardened concrete | - |
| 1.4 | Determination of dry bulk density | ČSN EN 678 | Aerated concrete, aerated concrete products | - |
| 1.5 | Determination of mass, bulk density | ČSN 72 2603, cl. 1 to 6, 11 to 14 | Brick products | - |
| 1.6 | Determination of bulk density | ČSN EN 1015-10 | Dry hardened mortar | - |
| **2** | **Dimensions** | | | |
| 2.1 | Determination of dimensions of concrete paving blocks | ČSN EN 1338, Annex C | Concrete paving blocks | - |
| 2.2 | Determination of dimensions of concrete paving blocks | ČSN EN 1339, Annex C | Concrete paving flags | - |
| 2.3 | Determination of dimensions of concrete paving blocks | ČSN EN 1340, Annex C | Concrete kerb units | - |
| 2.4 | Determination of dimensions | ČSN EN 772-16 | Masonry units | - |
| **3** | **Compressive strength** | | | |
| 3.1 | Determination of compressive strength of test specimens | ČSN EN 12390-3 | Concrete | - |
| 3.2 | Determination of compressive strength | ČSN EN 679 | Aerated concrete, aerated concrete products | - |
| 3.3 | Determination of compressive strength | ČSN EN 12190 | Products and systems for the protection and repair of concrete structures, rehabilitation materials | - |
| 3.4 | Determination of compressive strength | ČSN EN 1354 | Porous concrete from porous aggregates | - |
| 3.5 | Determination of compressive strength | ČSN EN 772-1 + A1 | Masonry units | - |
| 3.6 | Determination of uniaxial compressive strength | ČSN EN 1926 | Natural stone | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| **4** | **Bending strength** | | | |
| 4.1 | Determination of flexural strength of test specimens | ČSN EN 12390-5 | Concrete | - |
| 4.2 | Determination of bending strength | ČSN EN 1521 | Porous concrete from porous aggregates | - |
| 4.3 | Determination of flexural strength | ČSN EN 1351 | Aerated concrete, aerated concrete products | - |
| 4.4 | Measuring of flexural tensile strength (limit of proportionality (LOP), residual strength) | ČSN EN 14651+A1 | Metallic fibre-reinforced concrete | - |
| 4.5 | Determination of flexural strength (first peak, ultimate and residual) | ČSN EN 14488-3, Method A | Sprayed concrete | - |
| 4.6 | Determination of flexural strength | ČSN EN 772-6 | Masonry units | - |
| 4.7 | Bend test | ČSN EN ISO 15630-1, cl. 4 and 6 | Reinforcing bars, wire rod and wire for the reinforcement of concrete | - |
| 4.8 | Bend test of weld joints | ČSN EN ISO 15630-2, cl. 4 and 6 | Welded concrete reinforcing mesh | - |
| 4.9 | Bend test | ČSN EN ISO 17660-1, cl. 14.4 | Load-bearing welded joints of reinforcing steel | - |
| 4.10 | Determination of bending strength | ČSN P 73 2452; ČSN EN 12390-5 | Hardened fibre-reinforced concrete | - |
| 4.11 | Measurement of bending strength and breaking load | ČSN EN 1339, Annex F | Concrete paving flags | - |
| 4.12 | Measurement of bending strength | ČSN EN 1340, Annex F | Concrete kerb units | - |
| 4.13 | Determination of bending strength | ČSN EN 1288-3 | Glass | - |
| **5** | **Tensile strength** | | | |
| 5.1 | Tensile test | ČSN EN ISO 6892-1 | Metallic materials | - |
| 5.2 | Tensile test | ČSN EN ISO 15630-1, cl. 4 and 5 | Reinforcing bars, wire rod and wire for the reinforcement of concrete | - |
| 5.3 | Tensile testing | ČSN EN ISO 15630-3, cl. 4 and 5 | Steel for prestressing | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| 5.4 | Tensile test | ČSN EN ISO 15630-2, cl. 4 and 5 | Welded concrete reinforcing mesh | - |
| 5.5 | Tensile test | ČSN EN ISO 17660-1, cl. 14.2 | Load-bearing welded joints of concrete reinforcing steel | - |
| 5.6 | Tensile test | ČSN EN ISO 17660-2, cl. 14 | Non-structural welded joints of concrete reinforcing steel | - |
| 5.7 | Determination of uniaxial tensile strength | ČSN 73 1318, Annex 1 | Concrete | - |
| 5.8 | Determination of tensile strength | ČSN EN 50182, cl. 6.4.1 to 6.4.8, Annex C | Conductors for overhead lines | - |
| **6** | **Cement and mortar strength** | | | |
| 6.1 | Determination of flexural strength and compressive strength | ČSN EN 196-1 | Cement | - |
| 6.2 | Determination of flexural strength and compressive strength | ČSN EN 1015-11 | Mortars, ready-mix plasters and binders | - |
| **7** | **Shear strength tests** | | | |
| 7.1 | Determination of tensile shear strength of weld joints | ČSN EN ISO 15630-2, cl. 4 and 7 | Welded concrete reinforcing mesh | - |
| 7.2 | Shear test | ČSN EN ISO 17660-1, cl. 14.3 | Load-bearing welded joints of concrete reinforcing steel | - |
| 7.3 | Determination of shear adhesion of steel to concrete | ČSN EN 15184 | Coated steel rods in reference concrete | - |
| 7.4 | Determination of shear adhesion of steel to concrete | ČSN 73 1328 | Reinforcing bars in concrete | - |
| 7.5 | Determination of shear adhesion of steel to concrete | ČSN 73 1333 | Steel for prestressing in concrete | - |
| **8** | **Indirect tensile strength** | | | |
| 8.1 | Determination of the indirect tensile strength | ČSN EN 12390-6 | Concrete | - |
| 8.2 | Determination of the indirect tensile strength | ČSN EN 1338, Annex F | Concrete paving blocks | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| **9** | **Tensile bond tests** | | | |
| 9.1* | Test of adhesion of surface finish of building structures and components | ČSN 73 2577, cl. 1-14 | Building structures and components | - |
| 9.2* | Determination of layer adhesion and tensile strength of surface layers | ČSN 73 6242, Annex B | Building structures and components | - |
| 9.3 | Measurement of bond strength by pull-off | ČSN EN 1542 | Products and systems for the protection and repair of concrete structures, rehabilitation materials | - |
| **10** | **Static modulus of elasticity** | | | |
| 10.1 | Determination of static modulus of elasticity in compression | ČSN ISO 1920-10 | Concrete | - |
| 10.2 | Determination of static modulus of elasticity in compression | ČSN EN 1352 | Autoclaved aerated concrete or lightweight aggregate concrete | - |
| 10.3 | Determination of modulus of elasticity in compression | ČSN EN 13412 | Mortars, ready-mix plasters and binders | - |
| 10.4 | Determination of static modulus of elasticity | ČSN EN 14580 | Natural stone | - |
| 10.5 | Determination of secant modulus of elasticity in compression | ČSN EN 12390-13 | Concrete | - |
| **11** | **Hardness testing of concrete** | | | |
| 11.1 | Determination of hardness by hardness testing method | ČSN 73 1370;<br>ČSN 73 1373 | Concrete | - |
| **12** | **Hardness testing of metallic materials** | | | |
| 12.1 | Brinell hardness test | ČSN EN ISO 6506-1 | Metallic materials | - |
| **13** | **Testing of electrical insulators, wires and elements of overhead lines** | | | |
| 13.1 | Measurement of dimensions | ČSN EN 60168 cl. 5.1, Annex A;<br>IEC 60168 cl. 5.1, Annex A | Indoor and outdoor post insulators of ceramic materials or glass | - |
| 13.2 | Test by mechanical loading and determination of deflection under load | ČSN EN 60168 cl. 5.2, 5.3, 5.8, 5.9, Annex A;<br>IEC 60168 cl. 5.2, 5.3, 5.8, 5.9, Annex A | Indoor and outdoor post insulators of ceramic materials or glass | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| 13.3 | Test of mechanical failure load | ČSN EN 62155, cl. 7.2, 8, 10.5, 10.6;<br>IEC 62155, cl. 7.2, 8, 10.5, 10.6 | Hollow pressurized and unpressurized ceramic and glass insulators | - |
| 13.4 | Measurement of dimensions | ČSN EN 60137 ed. 4, cl. 8.14;<br>IEC 60137 ed.6, cl. 8.13 | Insulated bushings for alternating voltage | - |
| 13.5 | Test by mechanical loading | ČSN EN 60137 ed. 6 cl. 8.10;<br>IEC 60137 ed.6, cl. 8.9 | Insulated bushings for alternating voltage | - |
| 13.6 | Test of mechanical failure force | ČSN EN IEC 60383-1, cl. 19;<br>IEC 60383-1, cl. 19 | Ceramic or glass insulator units for overhead lines | - |
| 13.7 | Load test of the assembled core | ČSN EN 61952 ed. 2, cl. 10.4, 11.2;<br>IEC 61952, cl. 10.4, 11.2;<br>ANSI C29.11, cl. 7.2.2, cl. 8.3.1.3.1;<br>ANSI C29.17, cl. 7.2.2, 12.4, 13 | Composite post insulators for overhead lines | - |
| 13.8 | Reserved | | | |
| 13.9 | Ultimate mechanical-strength tests and time-load-withstand-strength test | ANSI C29.1, cl. 5.1, 5.3 | Electric power insulators | - |
| 13.10 | Tensile load test | ANSI C29.13, cl. 7.7 | Distribution dead-end type composite insulators | - |
| 13.11 | Test of the behaviour of the assembled cores under load, depending on the duration of load | ČSN EN 61109, cl. 10.4, 11.2;<br>IEC 61109, cl. 10.4, 11.2 | Composite suspension and tension insulators for overhead lines | - |
| 13.12 | Load test of the assembled core | ČSN EN 62231, cl. 8.3, 9.3, 10.4, 11.3;<br>IEC 62231, cl. 8.3, 9.3, 10.4, 11.3;<br>ANSI C29.11, cl. 8.3.1.3.2, 8.3.2 | Composite station post insulators | |
| 13.13 | Test by mechanical loading | ČSN EN 61284, cl. 11;<br>IEC 61284, cl. 11 | Fittings for overhead lines | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| 13.14 | Test by mechanical loading | ČSN EN IEC 61854 ed. 2, cl. 7.5.1 to 7.5.3; IEC 61854, cl. 7.5.1 to 7.5.3 | Spacers for overhead lines | - |
| 13.15 | Bending moment test | ČSN EN 60099-4 ed.3, cl. 8.11, 10.8.11 and Annex G | Surge arresters | - |
| 13.16 | Mechanical tests of composite hollow insulators | ČSN EN 61462, cl. 8.5, 9.3, 10.4, Annex A, C; IEC 61462, cl. 8.5, 9.3, 10.4, Annex A, C | Pressured and unpressured composite hollow insulators for use in electrical equipment with rate voltage greater than 1 000 V | - |
| 13.17 | Test of mechanical properties | ANSI C29.9, cl. 6, 8.2.6 and 8.2.7, 8.3.3 to 8.3.5, 8.4.2 | Porcelain insulators | - |
| 13.18 | Mechanical tests in bending and torsion | ČSN EN 61230 ed. 2, Annex B; IEC 61230, Annex B | Equipment for earthing and short-circuiting | - |
| 13.19 | Wrapping test | ČSN ISO 7802 | Metallic wires | - |
| 13.20 | Test by mechanical loading | ČSN EN 50183, cl. 6, 9, 11.3, 11.4; ČSN EN 50189, cl. 11.2-11.5; ČSN IEC 889, cl. 5, 7, 10.1, 10.2 | Wires for overhead line conductors | - |
| 13.21 | Determination of mass of non-ferrous metallic coatings by gravimetric method | ČSN EN 50189 cl. 11.6; ČSN EN 10244-1; ČSN EN 10244-2 except cl. 5.2.3 | Steel wires with non-ferrous coating | - |
| 13.22 | Determination of adhesion of non-ferrous metallic coatings | ČSN EN 50189 cl. 11.7; ČSN EN 10244-1 cl. 4.5; 5.3; ČSN EN 10244-2 cl. 4.2.5 | Steel wires with non-ferrous coating | - |
| 13.23 | Determination of homogeneity of non-ferrous metallic coatings | ČSN EN 50189 cl. 11.8; ČSN EN 10244-2 cl. 4.2.3; 5.3 | Steel wires with non-ferrous coating | - |
| 13.24 | Determination of resistance to chemical attack | IEC TR 62039, cl. 3.8 | Polymeric insulating materials in outdoor high voltage electrical applications | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| **14** | **Masonry testing** | | | |
| 14.1 | Determination of compressive strength | ČSN EN 1052-1 | Masonry | - |
| **15** | **Testing of injection mortars** | | | |
| 15.1* | Determination of workability, density, strength and volume changes | ČSN EN 445, cl. 4.3.1, 4.5, 4.6, 4.7 | Injection mortars for prestressing cables | - |
| **16** | **Cement tests** | | | |
| 16.1 | Determination of setting times and soundness | ČSN EN 196-3 + A1 | Cement | - |
| **17** | **Tests of fresh concrete** | | | |
| 17.1* | Slump test | ČSN EN 12350-2 | Fresh concrete | - |
| 17.2* | Vebe test | ČSN EN 12350-3 | Fresh concrete | - |
| 17.3* | Flow table test | ČSN EN 12350-5 | Fresh concrete | - |
| 17.4* | Slump-flow test | ČSN EN 12350-8 | Fresh concrete | - |
| 17.5* | V-funnel test | ČSN EN 12350-9 | Fresh concrete | - |
| 17.6* | L-box test | ČSN EN 12350-10 | Fresh concrete | - |
| 17.7* | J-ring test | ČSN EN 12350-12, except cl. 4.2 | Fresh concrete | - |
| 17.8 | Determination of consistence | ČSN EN 1015-3 | Fresh mortar | - |
| 17.9 | Determination of workable life | ČSN EN 1015-9 | Fresh mortar | - |
| **18** | **Determination of air content in fresh concrete and mortar** | | | |
| 18.1* | Determination of air content | ČSN EN 12350-7, except cl. 5 and Annex A and C | Fresh concrete | - |
| 18.2* | Determination of air content | ČSN EN 1015-7, Method A | Fresh mortar | - |
| 18.3 | Determination of porosity | Guideline WTA 2-9-04D, cl. 6.3.9 | Hardened mortar | - |
| **19** | **Freeze-thaw testing** | | | |
| 19.1 | Testing of frost resistance | ČSN 72 2452 | Mortars, ready-mix plasters and binders | - |
| 19.2 | Determination of frost resistance | ČSN 73 1322 | Concrete | - |
| 19.3 | Determination of resistance to freezing/thawing without the use of de-icing salts | ČSN EN 13198, Annex A | Concrete products and prefabricated products | - |
| **20** | **Determination of water absorption, watertightness** | | | |
| 20.1 | Determination of total water absorption | ČSN EN 1338, Annex E | Concrete paving blocks | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| 20.2 | Determination of total water absorption | ČSN EN 1339, Annex E | Concrete paving flags | - |
| 20.3 | Determination of total water absorption | ČSN EN 1340, Annex E | Concrete kerb units | - |
| 20.4 | Determination of depth of penetration of water under pressure | ČSN EN 12390-8 | Concrete | - |
| 20.5 | Water absorption test | ČSN EN 13369, Annex F | Prefabricated concrete products, terrace tiles | - |
| **21** | **Determination of resistance to de-icing agents** | | | |
| 21.1 | Determination of cement concrete surface resistance to water and chemical de-icing agents | ČSN 73 1326 | Concrete | - |
| 21.2 | Determination of resistance to freezing/thawing with the use of de-icing salt | ČSN EN 13198, Annex B | Concrete products and prefabricated products | - |
| 21.3 | Determination of resistance to freezing/thawing with the use of de-icing salts | ČSN EN 1338, Annex D | Concrete paving blocks | - |
| 21.4 | Determination of resistance to freezing/thawing with the use of de-icing salts | ČSN EN 1339, Annex D | Concrete paving flags | - |
| 21.5 | Determination of resistance to freezing/thawing with the use of de-icing salts | ČSN EN 1340, Annex D | Concrete kerb units | - |
| 21.6 | Reserved | | | |
| 21.7 | Determination of the resistance to salts | Guideline WTA 2-9-04D, cl. 6.3.10 | Hardened mortar | - |
| **22** | **Determination of concrete resistance to chemical attack and carbonation of concrete** | | | |
| 22.1* | Determination of depth of carbonation by phenolphthalein method | ČSN EN 14630 | Hardened concrete | - |
| **23** | **Static testing of structures** | | | |
| 23.1* | Loading tests | ČSN 73 2030 | Building structures and components | - |
| 23.2* | Static loading tests | ČSN 73 6209, except cl. 6.7 | Bridge structures | - |
| 23.3 | Reserved | | | |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| 23.4 | Mechanical testing of coupling elements and coupled ceiling panels | ČSN EN 1994-1-1 ed. 2, Annex B | Reinforced-concrete structures | - |
| 23.5 | Testing of mechanical properties | ČSN EN 1794-1, Annex A, B and E | Road traffic noise reducing devices | - |
| **24** | **Impact tests** | | | |
| 24.1 | Determination of stone impact resistance | ČSN EN 1794-1, Annex C | Road traffic noise reducing devices | - |
| **25** | **Dynamic tests of structures and vibration assessment** | | | |
| 25.1* | Informative dynamic test | ČSN 73 2044, cl. 1 to 19, 24 to 43, 58 | Building structures | - |
| 25.2* | Dynamic load test | ČSN 73 2044, cl. 1 to 17, 20 to 31, 44 to 56, 58 | Building structures | - |
| 25.3 | Reserved | | | |
| 25.4* | Dynamic load test of bridges | ČSN 73 6209, cl. 4.2, 5.2, 6.1 to 6.3, 6.3.3, 6.5.2, 7.2 and 8 | Building structures | - |
| **26** | **Axial fatigue tests** | | | |
| 26.1 | Axial fatigue test | ČSN EN ISO 15630-1, cl. 4 and 8 | Reinforcing bars, wire rod and wire for the reinforcement of concrete | - |
| 26.2 | Axial fatigue test | ČSN EN ISO 15630-2, cl. 4 and 8 | Welded concrete reinforcing mesh | - |
| **27** | **Testing of soils, fly ash and aggregates** | | | |
| 27.1 | Determination of water content | ČSN EN ISO 17892-1 | Soils and similar products, substitutes for aggregates | - |
| 27.2* | Determination of bulk density | ČSN 72 1010, cl. A, C, D; ČSN EN ISO 17892-2 | Soils and similar products, substitutes for aggregates | - |
| 27.3 | Determination of particle size distribution | ČSN EN ISO 17892-4 | Soils and similar products, substitutes for aggregates | - |
| 27.4 | Determination of Atterberg limits | ČSN EN ISO 17892-12 | Soils and similar products, substitutes for aggregates | - |
| 27.5 | Determination of the water content by drying in a ventilated oven | ČSN EN 1097-5 | Aggregates | - |
| 27.6 | Determination of particle density and water absorption | ČSN EN 1097-6, except Annex C, D and E | Aggregates | - |

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| Ordinal number[1] | Test procedure / method name | Test procedure / method identification[2] | Tested subject | Degrees of freedom[3] |
|---|---|---|---|---|
| 27.7 | Determination of fineness by wet sieving | ČSN EN 451-2 | Fly ash | - |
| **28** | **Determination of moisture, dry matter content** | | | |
| 28.1 | Determination of moisture content by gravimetric method | ČSN EN 13183-1 | Sawn timber | - |
| 28.2 | Determination of dry matter content | ČSN EN 480-8 | Additives for concrete, mortar, mortar grouting | - |

[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 valid 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 | Sampling | ČSN EN 12350-1 | Sampling of fresh concrete |
| 2 | Sampling | ČSN EN 12504-1, cl. 2 to 6 | Samples of hardened concrete |
| 3 | Sampling and preparation of test mortars | ČSN EN 1015-2 | Mortars |

[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:

ANSI US Standard (American National Standards Institute)
DIN German standard (Deutsche IndustrieNorm)
IEC Standard of International Electrotechnical Commission
WTA WTA Guidelines (Scientific and Technical Association for Building Rehabilitation and Monument Preservation)
OTP Railway Infrastructure Administration - General Specifications