

**The Appendix is an integral part of
Certificate of Accreditation No. 519/2023 of 03/10/2023**

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

Technický a zkušební ústav stavební Praha, s.p.
CAB number 1018.8, TZÚS Prague Testing Laboratory, TIS Branch
Prosecká 811/76a, Prosek, 190 00 Praha 9

Tests:

Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Subject of the test	Degrees of freedom³
1*	Measurement of dimensions, shapes and distances	ČSN EN 12390-1; ČSN EN 12899-1, Art. 7.1.3, NA 2.14; ČSN ISO 2768-1; ČSN 730212-5	Machinery and parts, concrete elements, traffic signs	-
2	Testing and verification of safety	ČSN EN 81-20 ed. 2, Art. 6.3.1, 6.3.3 - 6.3.14, (table 18); ČSN EN 81-50 ed. 2, Art. 5.2 - 5.7	Machinery and its parts (lifts)	-
3*	Measuring of the surface temperature of solids	ČSN EN ISO 13732-1, Art. 5.4	Machinery and parts	-
4*	Check of the continuity of the protective circuit	ČSN EN 60204-1 – ed. 3, Art. 18.2.2; ČSN EN 81-20 ed. 2, Art. 6.3.2 a,b, (Annex A)	Mechanical and Electrical Equipment (lifts)	- -
5*	Measuring of insulating resistance	ČSN EN 60204-1, ed.3, Art. 18.3; ČSN EN 81-20 ed. 2, Art. 6.3.2 c	Mechanical and Electrical Equipment (lifts)	-
6*	Functional Test (current and voltage)	ČSN EN 60204-1 ed. 3, Art. 17.5 IP 0940T101; ČSN EN 60335-1 ed. 2, Art. 10	Mechanical and Electrical Equipment	-
7*	Mechanical properties test	ETAG 001 Annex A, chapter 5.2.1, - 5.2.3, 5.3.1- 5.3.3, 5.6 - 5.10; EAD 330076-00-0604, Annex A, chapter A.5.2 - A.5.10; EAD 330196-01-0604 chapter 2.2.1.2 - 2.2.1.10; TR 048, chapter 3.3,3.4,3.6; EAD 330747-00-0601; EAD 330499-00-0601; EAD 330499-01-0601; EAD 330087-00-0601; EAD 330232-00-0601; EAD 330087-01-0601; EAD 330232-01-0601	Anchoring elements	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
8*	Mechanical properties test	ETAG 006:2000 Annex D, D.2.1, D.2.2; EAD 330196-01-0604, chapter 2.2.1.2, - 2.2.1.10; EAD 030351-00-0402, Annex 2; TR025, chapter 4 TR026, chapter 3	Plastic anchors	-
9*	Watertightness test	ČSN 75 0905; ČSN EN 12050-2:2002, art. 8.5; EN 12050-2:2002, art. 8.5; ČSN EN 12050-2, ed.2, art. 5; EN 12050-2 ed.2, art. 5; ČSN EN 12566-1:2001/A1:2005, Annex A, art. A2.1; EN 12566-1:2000/A1:2003, Annex A, art. A2.1; ČSN EN 12566-1, ed.2, Annex A, art. A2.1; ČSN EN 12566-3+A1:2009, Annex A, art. A2; EN 12566-3+A1:2009, Annex A, art. A2; ČSN EN 12566-3+A2:2014, Annex A, art. A2; EN 12566-3+A2:2013, Annex A, art. A2; ČSN EN 12566-3, Annex A, art. A2	Tanks and reservoirs (e.g. septic tanks, wastewater treatment plants)	-
10*	Impact Tests	ČSN EN 12767; ČSN EN 1317-1; ČSN EN 1317-2; ČSN EN 1317-3; ČSN P ENV 1317-4; TNI CEN/TR 1317-6:2012; prEN 1317-7; CEN/TR 16949	Restraint systems, supporting structures	-
11*	Load Test	ČSN EN 12899-1, Art. 5.4.4; EN 12899-1, Art. 5.4.4	Traffic sign	-

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12*	Colour by day and luminance factor test	ČSN EN 12899-1, Art. 4.1.1.3; EN 12899-1, Art 4.1.1.3; ČSN EN 12899-3 Art. 6.3.1, 6.3.2, 7.3.1, 7.3.2.1; EN 12899-3 Art. 6.3.1, 6.3.2, 7.3.1, 7.3.2.1	Traffic sign, delineator posts (retroreflectors), road studs	-
13*	Coefficient of retroreflection RA test	ČSN EN 12899-1, Art. 4.1.1.4; EN 12899-1, Art. 4.1.1.4; ČSN EN 12899-3 Art. 6.3.2.3, 7.3.2.3; EN 12899-3 Art. 6.3.2.3, 7.3.2.3	Traffic sign	-
14*	Durability test	ČSN EN 12899-1, Art. 4.1.1.5.1, 4.1.1.5.2; EN 12899-1, Art. 4.1.1.5.1, 4.1.1.5.2	Traffic sign	-
15*	Resistance to impact test	ČSN EN 12899-1, Art. 4.1.2; EN 12899-1, Art. 4.1.2	Traffic sign	-
16	Physical properties test	ČSN EN 1337-3, Annex F, G, H, I, J, K, M; ČSN EN 1337-5, Annex B, D, E; EN 15129, Art. 8.2.1.2.6-8.2.1.2.8 a Art. 8.3.4.1.2-8.3.4.1.3	Structural bearings	- -
17*	Resistance to static load test	EAD 160004-00-0301, Annex C.2; ČSN P 74 2871, Art. 4.6.1 ČSN EN 13391, Art. 4.2.1	Post - Tensioning Systems	-
18*	Load transfer to the structure test	EAD 160004-00-0301, Annex C.4; ČSN P 74 2871, Art. 4.6.3; ČSN EN 13391, Art. 4.2.3	Post - Tensioning Systems	-
19	Environmental and mechanical tests	ČSN EN 12966-1+A1:2010, Art. 9.2.3, table 13, table 18 Ab, Bb, Nb; ČSN EN 12966+A1, Art. 5.4.3, table 18, table 23 Ab, Bb, Nb	Variable message traffic signs	-
20	Reserved			

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Subject of the test	Degrees of freedom³
21*	Cable duct injection test	EAD 160004-00-0301 Annex C.6.2; ČSN P 74 2871, Art. 4.6.6; ČSN EN 13391, Art. 5.4	Post - Tensioning Systems	-
22*	Leak tightness test	EAD 160004-00-0301, Annex C.6.1; ČSN P 74 2871, Art. 4.6.6; ČSN EN 13391, Art. 5.4	Post - Tensioning Systems	-
23*	Security apertures test	ČSN EN 12605:2001, Art. 5.1.2, 5.3.2, 5.4.2, 5.4.3; ČSN EN 12604, Art.5, Annex A	Gates	-
24*	Operating force test	ČSN EN 12445:2001, Art. 4.1.1.4, 5, 7; ČSN EN 12453+A1, Annex A-D	Gates	-
25*	Power for manual control test	ČSN EN 12605:2001, Art. 5.1.5.2; ČSN EN 12604, Art. 4.4	Gates	-
26*	Test of nominal size	ČSN EN 12566-1:2001+A1:2005, Annex A, Art. A1; ČSN EN 12566-1, ed. 2, Annex A, Art. A.1; EN 12566-1:2001/A1:2003, Annex A, Art. A.1; EN 12566-1, Annex A, Art. A.1	Tanks (e.g. septic, wastewater treatment plants)	-
27	Vertical load carrying capacity test	ČSN EN 13146-10, Art. 7	Filled elements fixing sleepers	-
28	Determination of static stiffness	ČSN EN 13146-9, Art. 6.1.3	Pad under the rail heel	-
29	Determination of longitudinal rail restraint	ČSN EN 13146-1, Art. 7	System fastening the rail	-
30	Measurement of the effect of repeated load	ČSN EN 13146-4, Art. 7; ČSN EN 13146-7, Art. 7; ČSN EN 13146-1, Art. 7; ČSN EN 13146-9, Art. 7	System fastening the rail	-
31	Low-frequency dynamic kits fastening test	ČSN EN 13146-9, Art. 7.2	System fastening the rail	-
32	Determination of low-frequency dynamic stiffness	ČSN EN 13146-9, Art. 6.2	Pad under the rail heel	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
33	Measurement of structural properties	ČSN EN 12368:2007, cl. 7, table 9, table 12 Bb, Nb; ČSN EN 12368, ed.2, cl. 7, table 8, table 11 Bb, Nb	Signals - equipment and accessories	-
34*	Surface roughness test	ČSN EN ISO 4287:1999; User Manual Surfptest SJ201; ČSN EN ISO 4288:1999; ČSN EN ISO 21920-2; ČSN EN ISO 21920-3	Mechanical and structural components (e.g. Parts of bridge bearings, thrust plate, flat plate, etc.)	-
35*	Measurement of the thickness of surface coatings and metallisation	ČSN EN ISO 1461, Art. 6.2.2, 6.2.3; ČSN EN ISO 2808, Art. 5.5.6, 5.5.87 (Method 7B2, 7C)	Mechanical and structural components (e.g. Bridge bearings, traffic signs, auxiliary structures, etc.)	-
36*	Mechanical tests	ČSN EN 40-6; ČSN EN 40-3-2	Lighting columns	-
37	Reserved			
38*	Steel tensile test	ČSN EN ISO 6892-1	Bars, wires, ropes, etc.	-
39*	Load capacity test	EAD 160004-00-0301, Annex C.7; ČSN EN ISO 15630-3, Art. 5 ČSN EN ISO 6892-1, Art. 5	Tensile element	-
40	Wind load test (static requirements)	ČSN EN 12899-3, Art. 7.4.1.1; EN 12899-3, Art. 7.4.1.1	Delineator posts	-
41	Resistance to dynamic impact test	ČSN EN 12899-3, Art. 6.4.1.3, 7.4.1.2, 7.4.1.3, 7.4.1.4; EN 12899-3, Art. 6.4.1.3, 7.4.1.2, 7.4.1.3, 7.4.1.4	Delineator posts	-
42	Resistance to dynamic impact test	ČSN EN 12899-3, Art.7.4.2.2, 6.4.2.1; EN 12899-3, Art. 7.4.2.2, 6.4.2.1	Retroreflectors of delineator posts	-
43	Resistance to weathering test	ČSN EN 12899-3, Art.7.4.2.5, 6.4.2.4; EN 12899-3, Art. 7.4.2.5, 6.4.2.4	Retroreflectors of delineator posts	-
44	Resistance to water test	ČSN EN 12899-3, Art. 6.4.2.1, 7.4.2.4; EN 12899-3, Art. 6.4.2.1, 7.4.2.4	Retroreflectors of delineator posts	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
45	Test of fatigue resistance	EAD 120109-00-0107, Annex B; EAD 120110-00-0107, Annex C; EAD 120111-00-0107, Annex D; EAD 120113-00-0107, Annex D	Bridge expansion joints	-
46	Determining the displacement range	EAD 120109-00-0107, Annex D.3; EAD 120110-00-0107, Art. 2.2.4; EAD 120111-00-0107, Art. 2.2.4; EAD 120113-00-0107, Art. 2.2.4	Bridge expansion joints	-
47	Test of watertightness	EAD 120109-00-0107, Annex D.4; EAD 120110-00-0107, Art. 2.2.7; EAD 120111-00-0107, Art. 2.2.7; EAD 120113-00-0107, Art. 2.2.7	Bridge expansion joints	-

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the 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

Notes:

ČSN ENV - European standard issued for the verification
ETAG - Guideline for European Technical Approval
IP - Internal Regulation (Internal Test Specification of TZÚS Praha, s.p.)
prČSN EN - European Prestandard (Draft standard)
TNI CEN/TR - Technical standard information (Czech version)
CEN/TR - Technical standard information (English version)
TR - Technical Report
EAD - European Assessment Document