

**The Appendix is an integral part of
Certificate of Accreditation No. 178/2021 of 22/03/2021**

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

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

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object
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 Art. 6.3.1, 6.3.3 - 6.3.14, (table 18) ČSN EN 81-50, 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. 2 Art. 18.2.2 ČSN EN 81-20, Art. 6.3.2 a,b, (Annex A)	Mechanical and Electrical Equipment (lifts)
5*	Measuring of insulating resistance	ČSN EN 60204-1, ed.2 Art. 18.3 ČSN EN 81-20, Art. 6.3.2 c	Mechanical and Electrical Equipment (lifts)
6*	Functional Test (current and voltage)	ČSN EN 60204-1 – ed. 2 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	Anchoring elements

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object
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 ETAG 020 Annex A, chapter 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8 TR025, chapter 4 TR026, chapter 3	Plastic anchors
9*	Watertightness test	ČSN 75 0905 ČSN EN 12050-2:2002, Art. 8.5 EN 12050-2:2000, Art. 8.5 ČSN EN 12050-2, ed. 2, Art. 5 EN 12050-2 ed. 2, Art. 5 ČSN EN 12566-1:2001, Annex A, Art. A.2.1 ČSN EN 12566-1 ed. 2, Annex A, Art. A.2.1 EN 12566-1:2000, Annex A, Art. A.2.1 ČSN EN 12566-1 ed.2, Annex A, Art. A.2.1 ČSN EN 12566-3+A1:2009, Annex A, Art. A.2 EN 12566-3+A1:2009, Annex A, Art. A.2 ČSN EN 12566-3+A2:2014 Annex A, Art. A.2 EN 12566-3+A2:2013 Annex A, Art. A.2 ČSN EN 12566-3, Annex A, Art. A.2	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

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11*	Load Test	ČSN EN 12899-1, Art. 5.4.4 EN 12899-1, Art. 5.4.4	Traffic sign
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 1463-1 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	Thermal and mechanical tests	ČSN EN 12966-1+A1:2010 Art. 9.2.3, table 13, table 18 Ab, Bb, Nb. ČSN EN 12966, Art. 5.4.3, table 18, table 23 Ab, Bb, Nb.	Variable message traffic signs

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested object
20	Reserved		
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 Annex C, 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, Annex A, Art. A1 ČSN EN 12566-1 ed. 2, Annex A, Art. A.1 EN 12566-1:2000, 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	Tested object
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 User Manual Surfrest SJ201 ČSN EN ISO 4288	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	Tested object
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).

Notes:

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