

# CERTIFICATE OF ACCREDITATION

**No. S-073**  
dated 25.04.2023

The Slovak National Accreditation Service issues a Certificate of Accreditation to an accredited body pursuant to Section 26 par.6 of Act No. 53/2023 Coll. on Accreditation of Conformity Assessment Bodies (hereinafter referred to as the "Accreditation Act").

## Výskumný ústav dopravný, a.s.

Veľký Diel 3323, 010 08 Žilina  
ID Number: 36 402 672

**Organizational unit performing the activity of the Accredited Body:**  
Testing Laboratory for Painting Materials and Traffic Marking

**Place of performance of the accredited body:**  
Veľký Diel 3323, 010 08 Žilina

**Identification number of the Accredited Body:** 033/S-073

**Area of accreditation:** Testing laboratory

The testing laboratory demonstrated its competence to perform the accredited activity fulfilling the accreditation requirements of **ISO/IEC 17025: 2017 Standard** when performing physical testing of coatings, corrosion resistance of materials, traffic signs and traffic equipment, retroreflective materials, registration plates for road vehicles and trailers within the scope of accreditation stated in the Annex of this Certificate of Accreditation. The Annex shall form an integral part of the Certificate of Accreditation.


**Number and date of issue of the accreditation decision:** No. 033/10439/2023/1 dated 21.04.2023

**Validity of the accreditation decision:**

The accreditation decision No. 033/10439/2023/1 dated 21.04.2023 is valid from 25.04.2023 to 10.10.2024.

The validity of this Accreditation Certificate expires upon the expiry of the accreditation decision, the decision on withdrawal of the accreditation pursuant to Section 31 or the expiry of the accreditation pursuant to Section 32 of the Accreditation Act.



  
Štefan Král  
director

SNAS is signatory to the EA MLA and ILAC MRA.

## Scope of Accreditation

**Accredited body:** Výskumný ústav dopravný, a.s.  
Veľký Diel 3323, 010 08 Žilina

**Organizational unit performing the activity of the accredited body:**  
Testing Laboratory for Painting Materials and Traffic Marking

**Place of performance of the accredited body:**  
Veľký Diel 3323, 010 08 Žilina

**Identification number of the accredited body:**  
033/S-073

### Laboratory with fixed scope of accreditation

Item	Testing object		Method applied		Other specification <sup>1)</sup>
	Object/ Matrix/ Environment	Attribute/ Parameter/ Indicator/ Analyt	Principle/ Kind/ Type	Standard/Test Method	
	1	2	3	4	
1.1	Coating substances	Density	Gravimetric	STN EN ISO 2811-1 (TM No. 2)	2)
1.2		Non-volatile-matter content	Gravimetric	STN EN ISO 3251, UIC 842-1 (TM No. 3)	2)
1.3		Viscosity	The measurement of flow time with viscosity flow cups	STN EN ISO 2431, UIC 842-1 (TM No. 4)	2)
1.4		Pot life	Determination of the time	STN EN ISO 9514 (TM No. 8)	2)
1.5		Film Thickness (wet, dry)	Determination of film thickness.	STN EN ISO 2808; UIC 842-2, cl. 3.26 (TM No. 11)	3)
1.6		Drying tests	Determination of the time	STN EN 1824; UIC 842-2; STN EN ISO 9117-6 (TM No. 12, TM No. 13)	2)
			Qualitative test	STN EN ISO 9117-3,5,6 (TM No. 12)	
1.7		Adhesion	Visual evaluation	STN EN ISO 2409; STN EN ISO 12944-6, UIC 842-2 (TM No. 15)	2)
	Pull-off strength	Force measurement	STN EN ISO 4624 (TM No. 16)	2)	
1.8	Gloss	Determination of reflected light	STN EN ISO 2813 (TM No. 19)	3)	
2.1	Metal and plastic materials, Coating substances, Traffic signs,	Resistance to weathering	- Visual evaluation - Photometry	STN 67 3091; STN 67 3091/a, STN 67 3091/Z2,; STN ISO 7591 STN ISO 7591/Z4; STN EN 60068-2-14; STN EN 60068-2-2; STN EN 60068-2-1; RVS 08.23.01 (TM No. 20)	2)



Item	Testing object		Method applied		Other specification <sup>1)</sup>
	Object/ Matrix/ Environment	Attribute/ Parameter/ Indicator/ Analyt	Principle/ Kind/ Type	Standard/Test Method	
	1	2	3	4	
2.2	Traffic devices, Retroreflective materials	Accelerated artificial weathering and natural weathering	- Visual evaluation - Photometry	STN EN 12 899-1, 2, 3; STN EN ISO 4892-2; STN ISO 7591; STN ISO 7591/Z4; STN ISO 7591/Z5; STN EN ISO 105 – B02; STN EN IEC 60068-2-5; STN EN 1463- 1, 2, UNECE regulation No.104; STN EN ISO 877-2; STN 673064; STN EN ISO 3668; UIC 842-1; UIC 842-2; EAD 120001-01-0106; RVS 08.23.01 (TM No. 23; TM No. 33)	3)  Exposing specimens to xenon-arc light, sunlight
2.3	Metal and plastic materials, Coating substances, Traffic signs, Traffic devices,	Determination of resistance to humidity	Visual evaluation	STN EN ISO 6270-1; STN EN ISO 6270-2; STN EN 60068-2-30; STN EN IEC 60068-2- 38; STN EN 60068-2-78; STN EN ISO 12944-6; STN EN ISO 4628- 2,3,4,5,6; STN 67 3088; STN EN 12 966+A1; STN EN 12 899-1; STN EN ISO 10289 (TM No. 24, TM No. 30)	2)
2.4	Retroreflective materials	Resistance to corrosion	- Visual evaluation - Measurement of dimensions	STN EN ISO 9227; STN EN ISO 12944-6; STN EN IEC 60068-2-52; STN EN ISO 4628- 2,3,4,5,6; STN 67 3088; STN EN 12 966+A1; STN EN 12 899-1, 2, 3; UNECE regulation No.104; STN EN ISO 11997-1; STN EN ISO 10289; STN ISO 7591; STN ISO 7591/Z4; STN ISO 7591/Z5; STN EN ISO 6270-1; UIC 842-2 (TM No. 26, TM No. 30)	2)
2.5		Resistance to liquids, water and detergents	Visual evaluation	STN EN ISO 2812- 1 to 4, STN ISO 7591; STN ISO 7591/Z4; STN ISO 7591/Z5 UNECE regulation No.104; UIC 842-1; UIC 842-2; STN EN 12899-3 (TM No. 27, TM No. 28)	2)
2.6		Colour Chromaticity (Chromatic coordinates) Luminance factor Luminance Luminance intensity	- Photometry - Visual evaluation	STN 67 3067; STN EN 12 899-1, 2, 3; CIE 15; STN EN 1436; STN EN 1790; STN 018020; EAD 120001-01-0106; STN EN ISO 3668; STN EN 12966+A1; UNECE regulation No.104; STN EN 1463-1, 2; prEN 1463-3; STN ISO 7591; STN ISO 7591/Z4; STN ISO 7591/Z5; STN EN 12368; STN EN 12352; RVS 08.23.01; STN EN 15153-1; STN EN 13032-4 +A1; UIC 842-5 (TM No. 21, TM No. 25, TM No. 31)	3)
3.1	Traffic signs, Traffic devices, retroreflective materials	Dimensions	Measurement of dimensions	STN 01 8020 (cl. 6 a 7); STN ISO 7591; STN ISO 7591/Z4; STN ISO 7591/Z5; STN EN 1463-1 (TM No. 5)	3)
3.2		Resistance to bending	Visual evaluation	STN ISO 7591; STN ISO 7591/Z4; STN EN ISO 1519; UIC 842-2 (TM No. 6)	2)



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	Object/ Matrix/ Environment	Attribute/ Parameter/ Indicator/ Analyt	Principle/ Kind/ Type	Standard/Test Method	
	1	2	3	4	
3.3	Traffic signs, Traffic devices, retroreflective materials	Impact resistance	Visual evaluation	STN EN 12899-1,3; STN EN 12966+A1; EAD 120001-01-0106; STN ISO 7591; STN ISO 7591/Z4; STN ISO 7591/Z5; STN; UNECE regulation No.104 (TM No. 29)	2)
3.4		Durability (cover index)	Visual evaluation	STN EN 1824; STN EN 1463-2 (TM No. 32)	3)
3.5		Coefficient of retroreflection	Photometry	STN EN 12899-1,2,3; CIE 54.2; STN EN 12 966+A1; EAD 120001-01-0106; STN EN 1463-1; STN EN 1463-2; STN EN 1790; STN ISO 7591; STN ISO 7591/Z4; STN ISO 7591/Z5; UNECE regulation No.104 (TM No. 44) STN EN 1436; STN EN 1790; STN 018020 (TM No. 49)	3)
3.6		Skid resistance test	Measurement of energy loss caused by friction	STN EN 1436, cl. 4.5; STN EN 1824; STN EN 13036-4; STN EN 1790; STN 018020 (TM No. 46)	3)
3.7		Coefficient of luminance under daytime illumination	Photometry	STN EN 1436; STN EN 1790; STN 018020 (TM No. 48)	3)
4.1	not filled out				

**Notes:**

- 1) Additional and similar test directives for partial parameters of established methods.  
 2) Test is performed in laboratory.  
 3) Test is performed in laboratory or in situ.  
 TM – test method.

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