

CERTIFICATE OF ACCREDITATION

No. S-073

The Slovak National Accreditation Service based on the decision
No. 033/6538/2016/1 dated 26.09.2016 certifies that

Výskumný ústav dopravný, a.s.
Testing Laboratory for Painting Materials and Traffic Marking

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

is competent to carry out physical testing of coatings, corrosion testing of materials, traffic signs and traffic equipment, registration plates for road vehicles and trailers; measurement of particulate matter PM₁₀ and PM_{2,5} in ambient air; measurement and assessment of environmental noise due to transport load within the accreditation scope delineated in the Annex to this Certificate. The Annex is an integral part of Certificate of Accreditation.

The accredited body gives evidence of competence to perform the accredited activity impartially and trustworthily by meeting the requirements of the ISO/IEC 17025: 2005 Standard.

Accreditation granted on 26.09.2016 is valid until 06.10.2019.

Bratislava 26.09.2016



M. Senčák
Martin Senčák
director

Scope of accreditation

Accredited calibration laboratory: **Výskumný ústav dopravný, a.s.**
Testing Laboratory for Painting Materials and Traffic Marking
 Veľký Diel 3323, 010 08 Žilina

Laboratory with fixed scope of accreditation

Item	Testing object		Method applied		Other specification 1)
	Matrix/ Background/ Environment	Attribute/ Parameter/ Indicator	Principle/ Kind/ Type	Standard	
1.1	Coating substances	Density	Gravimetric	EN ISO 2811-1 (TM No. 2)	²⁾
1.2		Non-volatile-matter content	Gravimetric	EN ISO 3251 (TM No. 3)	²⁾
1.3		Viscosity	Flow time	EN ISO 2431 (TM No. 4)	²⁾
1.4		Pot life	Determination of the pot life	EN ISO 9514 (TM No. 8)	²⁾
1.5		Film Thickness	Determination of film thickness	EN ISO 2808 (TM No. 11)	³⁾
1.6		Drying tests	Determination of drying time	EN ISO 9117-3,5,6 (TM No. 12)	EN 1824 ³⁾
1.7		Adhesion	Cross-cut test	ISO 2409 (TM No. 15)	EN ISO 12944-6 ⁵⁾
			Pull-off test	EN ISO 4624 (TM No. 16)	³⁾
1.8	Gloss	Determination of gloss number	EN ISO 2813 (TM No. 19)	³⁾	
2.1	Metal and plastic materials, Coating substances, Traffic signs, Traffic devices, Retroreflective materials	Environment influence	Environmental tests	STN 67 3091 (TM No. 20)	ISO 7591, STN EN 60068-2-14, STN EN 60068-2-2, STN EN 60068-2-1, RVS 08.23.01, Specification ⁶⁾ ³⁾
2.2		Accelerated weathering	Exposure to artificial radiation	EN ISO 4892-2 (TM No. 23)	EN 7591, 1ISO 105 – B02 EN 60068-2-9 Specification ⁶⁾ ³⁾
2.3		Determination of resistance to humidity	Continuous condensation	EN ISO 6270-1, (TM No. 24, 30)	EN 60068-2-30, EN 60068-2-38, EN 60068-2-78, EN ISO 12944-6 ⁵⁾ ISO 4628-2,3,4,5,6, STN 67 3088, EN 12 966-1, EN 12 899-1, ECE.27, ECE 69, ECE 70, ECE 104, EN ISO 10289 ²⁾

Item	Testing object		Method applied		Other specification 1)
	Matrix/ Background/ Environment	Attribute/ Parameter/ Indicator	Principle/ Kind/ Type	Standard	
2.4	Metal and plastic materials, Coating substances, Traffic signs, Traffic devices Retroreflective materials	Corrosion tests	Corrosion tests in artificial atmospheres - Salt spray tests	ISO 9227, EN ISO 12944-6 (TM No. 26, 30)	EN 60068-2-52, ISO 4628-2,3,4,5,6, STN 67 3088, EN 12 966-1, EN 12 899-1, 2, 3, ECE.27, ECE 69, ECE 70, ECE 104, EN ISO 11997-1, EN ISO 10289, ISO 7591, Specification* ²⁾
2.5		Resistance to liquids	Visual determination of liquids effect on tested material	EN ISO 2812- 1 till 4, (TM No. 27)	EN 7591, ECE.27, ECE 69, ECE 70, ECE 104, Specification* ²⁾
2.6		Resistance to water	Visual determination of water effect on tested material	EN 12899 - 3, (TM No. 28)	EN 7591, ECE.27, ECE 69, ECE 70, ECE 10, Specification* ²⁾
2.7		Colour Chromaticity (Chromatic coordinates), Luminance factor	Photometry	STN 67 3067, EN 12 899-1, 2,3 CIE 15, EN 1436+A1 (TM No. 21)	EN ISO 3668, EN 12966-1, ECE.27, ECE 69, ECE 70, ECE 104, EN 1463-1, EN 471, EN 13422, ISO 7591, STN EN 12368 , STN EN 12352, RVS 08.23.01, STN EN 15153-1 Specification ⁶⁾ ³⁾
3.1		Traffic signs, Traffic devices, Retroreflective materials	Dimensions	Determination of dimensions	STN 01 8020 (TM No. 5)
3.2	Bending		Determination of bending	ISO 7591 (TM No. 6)	Specification ⁶⁾ ²⁾
3.3	Luminance intensity		Photometry	EN 12899-1, 2 (TM No. 25)	EN 12966-1, EN 12368, EN 12352, STN EN 13032, STN EN 13201, STN EN 15153-1 ³⁾
3.4	Impact resistance		Visual determination of tested material after drop height	EN 12899-1,2,3, (TM No. 29)	EN 12966-1, ISO 7591, ECE.27, ECE 69, ECE 70, ECE 104, ²⁾
3.5	Wear Index		Visual determination	EN 1824 (TM No. 32)	³⁾

Item	Testing object		Method applied		Other specification 1)
	Matrix/ Background/ Environment	Attribute/ Parameter/ Indicator	Principle/ Kind/ Type	Standard	
3.6	Traffic signs, Traffic devices, Retroreflective materials	Artificial natural weathering	Effect of atmospheric factors (water, temperature, radiation) on testing materials	EN 12 899-1, 2, 3 (TM No. 33)	EN ISO 4892-2, EN 7591, ISO 105 - B02, EN 60068-2-9, ECE.27, ECE 69, ECE 70, ECE 104, EN ISO 877-2 Specification ⁶⁾ ³⁾
3.7		Luminance	Photometry	EN 12899-1,2, EN 12966-1, (TM No. 31)	EN 12368, EN 12352, STN EN 13032, STN EN 13201 ³⁾
3.8		Coefficient of retroreflection (retroreflection)	Photometry	EN 12899-1,2,3, CIE 54.2, (TM No. 44) EN 1436+A1, (TM No. 49)	EN 12 966-1, EN 471, EN 1463-1, EN 13422, ECE.27, ECE 69, ECE 70, ECE 104, EN 1790, ISO 7591, Specification ⁶⁾ ³⁾
3.9		Skid resistance test (SRT)	Determination of energy loss caused by friction	EN 1436+A1 (TM No. 46)	EN 1824, EN 1790, EN 13036-4, 3)
3.10		Coefficient of luminance under daytime illumination	Photometry	EN 1436+A1 (TM No. 48)	EN 1790 ³⁾
4.1		Available			
4.2		Available			
4.3		Available			
4.4		Available			
5.		Available			

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.

4) Test is performed in situ.

5) To support a manufacturer's declaration of performance in the system 3 (III) by EPR Regulation no. 305/2011 (Law no. 133/2013 Z.z. and Decree no. 162/2013 Z.z.)

6) Specification = Specification of retroreflective safety stickers for motor vehicle. Inner and outer application. For laboratory use. TM – Test method drawn up according to standard by test laboratory.
