



**REPUBLIC OF BULGARIA**  
Executive agency  
**Bulgarian accreditation service**



***Signatory to the EA Multilateral Agreement in this field***

**ORDER**

**Nº A 372**

**Sofia, 16.10.2024**

Pursuant to Art. 10, para. 1, item 2a, Art. 32, item 2 of the Law on National Accreditation of Conformity Assessment Bodies, item 7 (1) and item 5.3.1 in connection with amendment of an element of the certificate content, according to item 4.3.8. f) of the BAS QR 2 Accreditation Procedure, open procedure reg. № 229/142 ЛИ/РО/08.07.2024, assessment report reg. № 229/142 ЛИ/4/E/09.08.2024, and EA BAS order reg. № A 371/16.10.2024, I hereby

**AMEND**

EA BAS order reg. № A 327/14.08.2023,

**INDEPENDENT CONSTRUCTION LABORATORY INFRASTRUCTURE LTD.**  
**INDEPENDENT CONSTRUCTION LABORATORY**

**Management and laboratory address:** 1619 Sofia, 257 Tsar Boris III Blvd.

**To perform testing of:**

**Type of the scope:** flexible

<b>Nº</b>	<b>Tested Products</b>	<b>Type of test/ Characteristic</b>	<b>Testing methods (standard/ validated method)</b>
1	2	3	4
1.	Construction soils (unbound and hydraulically bound mixtures; aggregates for unbound and hydraulically bound mixtures to be used in civil engineering work and road construction)	1.1 Determination of water content	ASTM D 1556/D 1556 M* БДС EN 1097-5 БДС EN ISO 17892-1
		1.2 Determination of particle size distribution	БДС EN 933-1 AASHTO T 88 AASTHTO T 27 БДС EN ISO 17892-4, cl. 5.2 and cl. 5.3
		1.3 Determination of particle density	БДС EN ISO 17892-3, cl. 5.1
		1.4 Determination of bulk density	БДС EN ISO 17892-2, cl. 5.1 and 5.2 Appendix 18 of Ordinance № РД-02-20-2
		1.5 Determination of dry density Bulk density of the skeleton	БДС EN ISO 17892-2, cl. 5.1 and cl. 5.2 ASTM D 1556/D 1556 M* Appendix 18 of Ordinance № РД-02-20-2
		1.6 Determination of wet density	ASTM D 1556/D 1556 M*

Type of the scope: flexible

№	Tested Products	Type of test/ Characteristic	Testing methods (standard/ validated method)
			4
1	2	3	
		1.7 Elastic module	БДС 15130
		1.8 Deformation module	БДС 15130
		1.9 Relation of deformation modules	БДС 15130
		1.10 Determination of liquid limit	AASHTO T 89 БДС EN ISO 17892-12, cl. 5.3 Appendix 15 of Ordinance № РД-02-20-2
		1.11 Determination of plastic limit	AASHTO T 90 БДС EN ISO 17892-12 Appendix 16 of Ordinance № РД-02-20-2
		Determination of liquid limit	
		1.12 Plasticity Index	AASHTO T 90 Appendix 16 of Ordinance № РД-02-20-2 БДС EN ISO 17892-12
		1.13 Consistency index	БДС EN ISO 17892-12
		1.14 Determination of optimal water content	БДС 17146, cl. 3.3 – type of test H 100, M 100, H 150, M 150 БДС EN 13286-2, cl. 7.1; 7.2; 7.4; 7.5; Appendix A
		1.15 Determination of normal density of the skeleton	БДС 17146, cl. 3.3 - type of test H 100, H 150
		1.16 Determination of modified density of the skeleton	БДС 17146, cl. 3.3 - type of test M 100, M 150
		1.17 Determination of degree of compaction	БДС 17146 Appendix 18 of Ordinance № РД-02-20-2
		1.18 Determination of the standard density of the skeleton - Proctor compaction	БДС EN 13286-2, cl. 7.1; 7.2; Appendix A
		1.19 Determination of the standard density of the skeleton - modified Proctor compaction	БДС EN 13286-2, cl. 7.4; 7.5; Appendix A
		1.20 Determination of California bearing ratio (CBR)	БДС EN 13286-47
		1.21 Compression characteristics	
		1.21.1 Vertical deformation	
		1.21.2 Compression module	
		1.21.3 Coefficient of consolidation	
		1.21.4 Pore coefficient	
		1.21.5 Swelling pressure	
		1.22 Friction angle	
		• Peak friction angle	
		• Residual friction angle	
		1.23 Cohesion	
		• Peak cohesion	

Type of the scope: flexible			
Nº	Tested Products	Type of test/ Characteristic	Testing methods (standard/ validated method)
1	2	3	4
		• Residual cohesion	
2.	Additives/aggregates (coarse, fine/ sand, fillers, unfractionated for various applications)	2.1 Determination of particle size distribution	БДС EN 933-1
		2.2 Determination of fine fraction content	БДС EN 933-1
		2.3 Determination of California bearing ratio (CBR)	БДС EN 13286-47
		2.4 Magnesium sulfate solution resistance	БДС EN 1367-2
		2.5 Determination of loose bulk density	БДС EN 1097-3
		2.6 Percentage of voids	БДС EN 1097-3 БДС EN 1097-6, cl. 7, cl. 8, cl. 9, Appendix B
		2.7 Determination of particle density • specific $\rho_a$ • dry $\rho_{rd}$ • water-saturated and surface dry (water-saturated to constant mass) $\rho_{ssd}, \rho_{cm}$	БДС EN 1097-6, cl. 7, cl. 8, cl. 9, Appendix B
		2.8 Determination of water absorption	БДС EN 1097-6, cl. 7, cl. 8, cl. 9, Appendix B
		2.9 Shape index	БДС EN 933-4
		2.10 Flakiness index	БДС EN 933-3
		2.11 Determination of: - crushed particles; - totally crushed particles; - totally rounded particles	БДС EN 933-5
		2.12 Determination of the length of particles	БДС EN 13450 cl. 6.7
		2.13 Determination of the water content	БДС EN 1097-5
		2.14 Resistance to fragmentation under static load	БДС EN 206+A2/NA (Appendix NA.Q)
		2.15 Determination of resistance to fragmentation - LA coefficient	БДС EN 1097-2
		2.16 Percentage of shells	БДС EN 933-7
		2.17 Sand equivalent	БДС EN 933-8+A1
		2.18 Determination of the particle density of filler	БДС EN 1097-7
		2.19 Determination of the voids of dry compacted filler	БДС EN 1097-4
		2.20 Determination of liquid limit	AASHTO T 89 Appendix 15 of Ordinance № РД-02-20-2
		2.21 Determination of plastic limit Determination of liquid limit	AASHTO T 90 Appendix 16 of Ordinance № РД-02-20-2

Type of the scope: flexible			
Nº	Tested Products	Type of test/ Characteristic	Testing methods (standard/ validated method)
1	2	3	4
1.		2.22 Plasticity Index	AASHTO T 90 Appendix 16 of Ordinance № РД-02-20-2
		2.23 Determination of the standard density of the skeleton – modified Proctor compaction	БДС EN 13286-2, cl. 7.4, cl. 7.5; Appendix A
		2.24 Determination of optimal water content	БДС EN 13286-2, cl. 7.4, cl. 7.5; Appendix A
3.	Natural stone and rock aggregates	3.1 Determination of particle bulk density	БДС EN 13383-2, cl. 8
		3.2 Determination of water absorption	БДС EN 13383-2, cl. 8
		3.3 Determination of dry compressive strength	БДС EN 1926
		3.4 Determination of water-soaked compressive strength (for 48±4 h)	БДС EN 1926, Appendix A
4.	Bituminous mixtures	4.1 Determination of bulk density of bituminous specimens	БДС EN 12697-6, Procedures A and B
		4.2 Determination of the maximum density	БДС EN 12697-5, Procedure A
		4.3 Residual voids $V_m$	БДС EN 12697-8, cl. 4
		4.4 Soluble binder content	БДС EN 12697-1, Annex B, cl. B.2.1
		4.5 Determination of particle size distribution	БДС EN 12697-2+A1
		4.6 Determination of stability by Marshall test	БДС EN 12697-34
		4.7 Determination of the flow by Marshall test	БДС EN 12697-34
5.	Petroleum viscous bitumen, polymer modified	5.1 Penetration at 25°C	БДС EN 1426
		5.2 Elastic recovery at 25°C	БДС EN 13398
		5.3 Softening point of viscous bitumen	БДС EN 1427
6.	(1) Concrete (2) Solutions - injection (3)	6.1 Slump test	БДС EN 12350-2(1)
		6.2 Shape and dimensions of specimens	БДС EN 12390-1(2)
		6.3 Compressive strength	БДС EN 12390-3(2) БДС EN 445, cl. 4.6 (3)
		6.4 Flexural strength	БДС EN 12390-5(2)
		6.5 Tensile splitting strength	БДС EN 12390-6(2)
		6.6 Watertightness	БДС EN 206+A2/NA (2) (Appendix NA.N)
		6.6.1 Water penetration depth	
		6.7 Frost resistance	БДС EN 206+A2/NA (2) (Appendix NA.O, Part NA.O.1 main method)
		6.8 Density of hardened concrete	БДС EN 12390 -7(2)
7.	Building structures (1),	7.1 Geometry of drill cores	БДС EN 12504-1(1)
		• diameter – d • height	БДС EN 12390-1(1)

Type of the scope: flexible			
Nº	Tested Products	Type of test/ Characteristic	Testing methods (standard/ validated method)
1	2	3	4
laid and compacted bituminous layers (2), waterproofing systems (3)	<ul style="list-style-type: none"> <li>• flatness</li> <li>• stability</li> </ul>		
	7.2 Compressive strength of concrete from cut test specimens (cores) of prefabricated structures		БДС EN 12390-3(1) БДС EN 12504-1(1)
	7.3 Adhesion strength		ASTM D 7234(3)
	7.4 Determination of degree of compaction		БДС EN 12697-9*(2)
	7.5 Determination of bulk density of bituminous specimens (core)		БДС EN 12697-6(2), Procedures A and B
	7.6 Determination of the reference density		БДС EN 12697-9*(2)
	7.7 Determination of the thickness of bituminous pavement		БДС EN 12697-36, cl. 6.1 (2)
7.8 Beckelman beam deflection method		БДС 15 131 (2)	

\*Repealed but not replaced standard with regard to the testing method.

#### To perform sampling of:

Type of the scope: flexible		
Nº	Product	Sampling method (standardized/ validated)
1	2	3
1.	Construction soils (unbound and hydraulically bound mixtures; aggregates for unbound and hydraulically bound mixtures to be used in civil engineering work and road construction)	БДС EN 13286-1
2.	Additives/aggregates (coarse, fine/ sand, fillers, unfractionated for various applications)	БДС EN 932-1, cl. 8.8, Appendix A.2
3.	Bituminous mixtures	БДС EN 12697-27, cl. 4.1, cl. 4.3, cl. 4.7
4.	Concrete mixtures, concrete	БДС EN 12350-1
5.	Building structures (1), laid, and compacted bituminous layers (2)	БДС EN 12504-1, cl. 6 (1) БДС EN 12697-27, cl. 4.7 (2)

**Flexible scope:** Implementing a new version of standards/documents or standards/documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by the laboratory.

#### Reference:

Ordinance № РД-02-20-2 on road design of the Ministry of Regional Development and Public Works, prom. SG № 79/25.09.2018, Amd. SG № 90/30.10.2018, Amd. SG № 38 of 24.04.2020; Appendix 15 to Article 160, item 3; Appendix 16 to Article 160, item 3; Appendix 18 to Article 168, para. 1.

**I ORDER**

To issue the certificate of accreditation reg. № 142 ЛИ/16.10.2024, valid until 20.04.2026 and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the Manager / representative of Independent Construction Laboratory Infrastructure Ltd, the head of the Independent Construction Laboratory, at Independent Construction Laboratory Infrastructure Ltd, or other authorized person in the office of EA BAS.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of accreditation certificate № 142 ЛИ/14.08.2023, valid until 20.04.2026 and an enclosure, EA BAS order reg. № A 327/14.08.2023 as an integral part of it.

This order shall be notified to the Independent Construction Laboratory Infrastructure Ltd. within 3 (three) days from its issuance

**Eng. Irena Borislavova**

*Executive Director of EA BAS*

