



REPUBLIC OF BULGARIA
Executive agency
Bulgarian accreditation service



Signatory to the EA Multilateral Agreement in this field

ORDER

№ A 119

Sofia, 04.04.2025

Pursuant to Art. 10, para. 1, item 3, Art. 30, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies, item 7 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 182/109 ЛИ/ПО/16.12.2024, report reg. № 182/109 ЛИ/ПО/9/В/14.03.2025 and statement of the Accreditation Commission reg. № 182/109 ЛИ/10/В/28.03.2025, I hereby

**EXTEND THE SCOPE OF ACCREDITATION
OF
INGSTROYENGINEERING EOOD
CONSTRUCTION AND ROAD LABORATORY**

Management Address: 9000, Varna, 31 Alexander Dyakovich Str.

Laboratory Address:

Office 1 – Stationary Office: 9024, Topoli, Varna Municipality, Klise Bair Area, UPI 428;
Office 2 – Mobile Office: 3947, Medovnitsa, Dimovo Municipality, Quarter-91, UPI I-4

To perform testing of:

Type of the scope: <i>flexible</i>			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
1.	Bituminous mixture	1.1 Particle size distribution	БДС EN 12697-2
		1.2. Bulk density	БДС EN 12697-6
		1.3. Bituminous mixture temperature	БДС EN 12697-13, cl. 4.1
		1.4. Maximum density	БДС EN 12697-5
		1.5. Voids characteristics: - in the mineral rock material - bitumen-filled voids in mineral rock material	БДС EN 12697-8, cl. 5
		1.6. Air voids content	БДС EN 12697-8, cl. 4

Type of the scope: <i>flexible</i>			
Nº	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		1.7. Marshal tests - Marshal stability (test) - Marshall flow (relative ductility)	БДС EN 12697-34
		1.8. Soluble binder content	БДС EN 12697-1 Annex B, item B1.7
		1.9. Dimensions of a bituminous specimen	БДС EN 12697-29
2.	Aggregates for: -for bitumen mixes and pavements of road, airstrip and other traffic areas (1); -non-bound and hydraulically bound mixtures for use in construction facilities and road construction (2); -crushed stone for railway lines (3); Aggregate for: Concrete (4)	2.1. Particle size distribution	БДС EN 933-1 (1;2;3;4)
		2.2. Shape index	БДС EN 933-4 (1;2;3;4)
		2.3. Resistance to fragmentation - Los Angeles Index	БДС EN 1097-2, cl. 5, (1;2;4) БДС EN 1097-2 Annex A (3)
		2.4. Magnesium sulfate value / resistance to weathering	БДС EN 1367-2 (1;2;3;4)
		2.5. Particle density and water absorption - specific particle density - dry particle density - water-saturated particle density surface dry particle density - water absorption Wa	БДС EN 1097-6 (1;2;3;4) cl. 7, cl. 8 and cl. 9, Annex A Annex B
		2.6. Sand equivalent	БДС EN 933-8 (1;2;4)
		2.7. Loose bulk density	БДС EN 1097-3 (1;2;3;4)
		2.8. Water content	БДС EN 1097-5 (1;2;3;4)
		2.9. Determination of percentage of particles with: - crushed and broken surfaces - fully crushed and broken surfaces - fully rounded surfaces	БДС EN 933-5 (1;2;3;4)
		2.10. Flakiness index.	БДС EN 933-3 (1;2;3;4)
		2.11. Content of fine fraction, 0,063 mm sieve	БДС EN 933-1 (1;2;3;4)
		2.12. Methylene blue value	БДС EN 933-9 (1;2;4)
		2.13. Resistance to fragmentation under static loads	БДС EN 206 /NA Annex NA .Q (4)
3.	Bitumen and bituminous binders	3.1. Penetration	БДС EN 1426
		3.2. Softening point	БДС EN 1427
		3.3. Elastic recovery	БДС EN 13398
		3.4. Efflux time /viscosity/	БДС EN 12846-1

Type of the scope: <i>flexible</i>			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		3.5 Binder residue after distillation	БДС EN 1431 cl. 8.4
		3.6 Residue on sieve and storage stability	БДС EN 1429
		3.7 Density	БДС EN 15326
4.	Fresh concrete	4.1. Slump-test	БДС EN 12350-2
5.	Hardened concrete	5.1. Compressive strength	БДС EN 12390-3
		5.2. Density of hardened concrete	БДС EN 12390-7
		5.3. Depth of penetration of water under pressure	БДС EN 12390-8
6.	Construction soils (non-bound and hydraulically bound mixtures; Aggregates for non-bound and hydraulically bound mixtures for use in construction facilities and road construction)	6.1. Water content	БДС EN 1097-5 БДС 644* БДС EN ISO 17892-1
		6.2. Bulk density/dry density	БДС EN ISO 17892-2 cl. 5.1
		6.3. Bulk density in situ through substitute sand	AASHTO T191
		6.4. Liquid limit Plastic limit	БДС 648* БДС EN ISO 17892-12 AASHTO T 89 AASHTO T 90
		6.5. Plasticity indicator	AASHTO T 90 БДС EN ISO 17892-12
		6.6. Maximum bulk/relative comparative density of the frame and optimum water content	БДС 17146 Method with shape H100 M100 Method with shape H150 M150 БДС EN 13286-2 Method with shape A Method with shape B
		6.7. Degree of compaction	БДС 17146 AASHTO T191
		6.8. Elasticity modulus in round-plate loading - average elasticity modulus - deformation modulus - deformation modulus ratio	БДС 15130
		6.9. Particle size distribution	БДС EN 933-1 БДС EN ISO 17892-4 cl. 5.2; cl. 5.3

Type of the scope: <i>flexible</i>			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		6.10. Particle density	БДС 646* БДС EN ISO 17892-3 cl. 5.1
		6.11. California bearing ratio - CBR	БДС EN 13286-47
		6.12 Compressive strength	БДС EN 13286-41
7.	Laid and compacted bituminous layer	7.1. Thickness of a bituminous pavement	БДС EN 12697-36 cl. 6.1
		7.2. Core bulk density	БДС EN 12697-6
		7.3. Level of compaction	БДС EN 12697-9*
		7.4. Irregularity of pavement courses	БДС EN 13036-7
8.	Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles	8.1 Bond strength	БДС EN 13596

To perform sampling of:

Type of the scope: <i>flexible</i>		
№	Product	Sampling methods (standard/validated method)
1	2	3
1.	Bituminous mixture	БДС EN 12697-27 cl. 4.1; cl. 4.3; cl. 4.4; cl. 4.5; cl. 4.6; cl. 4.10
2.	Aggregates for: -for bitumen mixes and pavements of road, airstrip and other traffic areas; -non-bound and hydraulically bound mixtures for use in construction facilities and road construction -crushed stone for railway lines Aggregate for: Concrete	БДС EN 932-1 cl. 8.5; cl. 8.6; cl. 8.8; cl. 8.9
3.	Bitumen and bituminous binders	БДС EN 58 cl. 8.1.5 БДС EN 12697-3
4.	Fresh concrete	БДС EN 12350-1
5.	Construction soils (non-bound and hydraulically bound mixtures; Aggregates for non-bound and hydraulically bound mixtures for use in construction facilities and road construction)	БДС EN 932-1 1 cl. 8.5; cl. 8.6; cl. 8.8; cl. 8.9 БДС EN 13286-1
6.	Laid and compacted bituminous layer	БДС EN 12697-27 cl. 4.7

II. Office 2 – Mobile Office: 3947, Medovnitsa, Dimovo Municipality, Quarter-91, UPI I-4

To perform testing of:

Type of the scope: <i>flexible</i>			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
1.	Bituminous mixture	1.1. Particle size distribution	БДС EN 12697-2
		1.2. Bulk density	БДС EN 12697-6
		1.3. Maximum density	БДС EN 12697-5
		1.4. Air voids content	БДС EN 12697-8
		1.5. Marshal tests - Marshal stability (test) - Marshall flow (relative ductility)	БДС EN 12697-34
		1.6. Soluble binder content	БДС EN 12697-1 Asphalt Binder Analyzer Method
		1.7. Dimensions of a bituminous specimen	БДС EN 12697-29
2.	Bitumen and bituminous binders	2.1. Penetration	БДС EN 1426
		2.2. Softening point	БДС EN 1427
3.	Fresh concrete	3.1. Slump-test	БДС EN 12350-2
4.	Hardened concrete	4.1. Compressive strength	БДС EN 12390-3
5.	Construction soils (non-bound and hydraulically bound mixtures; Aggregates for non-bound and hydraulically bound mixtures for use in construction facilities and road construction)	5.1. Water content	БДС EN 1097-5
		5.2. Bulk density of the frame through substitute sand	Ordinance № ПД-02-20-2/ 2018-Annex № 18
		5.3. Liquid limits	Ordinance № ПД-02-20-2/ 2018-Annex № 15
		5.4. Plastic limit. Plasticity indicator	Ordinance № ПД-02-20-2/ 2018-Annex № 16
		5.5. Maximum bulk density of the frame and optimum water content	БДС 17146 Method with shape H100 M100 Method with shape H150 M150 БДС EN 13286-2 Method with shape A Method with shape B
		5.6. Degree of compaction	БДС 17146 Ordinance № ПД-02-20-2/ 2018-Annex № 18
		5.7. Elasticity modulus in round-plate loading - average elasticity modulus	БДС 15130

Type of the scope: <i>flexible</i>			
№	Tested products	Type of test / characteristic	Testing methods (standard / validated method)
1	2	3	4
		- deformation modulus - deformation modulus ratio	
		5.8. Particle size distribution	БДC EN 933-1
		5.9. Content of fine fraction, 0,063 mm sieve	БДC EN 933-1
		5.10. California bearing ratio – CBR	БДC EN 13286-47
		5.11. Compressive strength	БДC EN 13286-41
6.	Laid and compacted bituminous layer	6.1. Thickness of a bituminous pavement	БДC EN 12697-36 destructive method
		6.2. Core bulk density	БДC EN 12697-6
		6.3. Level of compaction	БДC EN 12697-9*

To perform sampling of:

Type of scope: <i>flexible</i>		
№	Product	Sampling methods (standard/validated method)
1	2	3
1.	Bituminous mixture	БДC EN 12697-27 from truckload
2.	Bitumen and bituminous binders	БДC EN 58 from three-way stopcock
3.	Construction soils	БДC EN 932-1 from stockpile
4.	Fresh concrete	БДC EN 12350-1
5.	Laid and compacted bituminous layer	БДC EN 12697-27 through core test

Note: *Repealed but not replaced standards with regard to the testing method.

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 laboratory.

Reference:

- ¹⁾ Annex № 15 to Art. 160, item 3 of Ordinance № ПД-02-20-2/28.08.2018 for road design: Determining the yield strength of soils;
- ²⁾ Annex № 16 to Art. 160, item 3 of Ordinance № ПД-02-20-2/28.08.2018 for road design: Method for determining the Plastic limit of soils and the plasticity indicator of soils;
- ³⁾ Annex № 18 to Art. 168, para 1 of Ordinance № ПД-02-20-2/28.08.2018 for road design: Method for determining the bulk density of construction soils in-situ, through substitute sand.

I ORDER

To issue the certificate of accreditation reg. № 109 ЛИ/04.04.2025, valid until 28.02.2026, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the manager of Construction and road laboratory, at Ingstroyengineering EOOD, 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 № 109 ЛИ/28.02.2022, valid until 28.02.2026 and its enclosure – EA BAS order reg. № A 150/28.02.2022.

This order shall be notified to Ingstroyengineering EOOD, within 3 (three) days from its issuance.

Eng. Irena Borislavova

*Executive Director
of Executive agency Bulgarian accreditation service*

