



ORDER

№ A 63

Sofia, 31.01.2023

Pursuant to Art. 10, para. 1, item 4 and Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies, item 6 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 397/114 ЛИ/ПА/08.07.2022, assessment report reg. № 397/114 ЛИ/6/В/17.10.2022 and statement of the Accreditation Commission reg. № 397/114 ЛИ/ПА/В/09.01.2023, I hereby

RE-ACCREDIT

**Construction laboratory
at Ratec Ltd.**

Management address: 1359 Lyulin-5, 129, Dr. Petar Dertliev Str.
Laboratory address: 1217 Sofia, Balsha village, Balsha Mining Plant

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.	Asphalt mixtures		
1.1.	Asphalt mixtures for road surfaces.	1.1.1. Soluble binder content	БДС EN 12697-1 Extraction centrifugation method
		1.1.2. Particle size distribution	БДС EN 12697-2+A1
		1.1.3. Maximum density	БДС EN 12697-5
		1.1.4. Bulk density of bituminous specimens	БДС EN 12697-6
		1.1.5. Air pore content	БДС EN 12697-8, Air pore content (Va) determination method
		1.1.6. Pore content in the mineral fraction	БДС EN 12697-8 Pore content in the mineral fraction (VMA) determination method

Type of the scope: <i>flexible</i> *			
№	Tested Products	Type of Test/Characteristic	Testing methods (standard / validated method)
1	2	3	4
		1.1.7. Affinity between rock material and bitumen	БДС EN 12697-11 Boiling water stripping test method
		1.1.8. Sustainability	БДС EN 12697-34
		1.1.9. Conditional plasticity	БДС EN 12697-34
		1.1.10. Pore content in the mineral fraction filled with bitumen	БДС EN 12697-8 Pore content in the mineral fraction filled with bitumen (VFB) determination method
		1.1.11. Determination of water sensitivity of an asphalt test specimen	БДС EN 12697-12, Method with indirect load
		1.1.12. Indirect tensile strength	БДС EN 12697-23
		1.1.13. Dimensions of a bituminous specimen	БДС EN 12697-29
1.2.	Asphalt layers of asphalt pavements.	1.2.1. Degree of compaction/ Bulk density of the bituminous specimens / Relative density	БДС EN 12697-9 БДС EN 12697-6
		1.2.2. Thickness of asphalt layers of asphalt pavements	БДС EN 12697-36 Destructive method
2.	Rock materials (1) and building soils (2)	2.1. Particle size distribution	БДС EN 933-1 (1)(2)
		2.2. Content of fine fraction	БДС EN 933-1 (1)
		2.3. Index for flat grains	БДС EN 933-3 (1)
		2.4. Form factor	БДС EN 933-4 (1)
		2.5. Sand equivalent	БДС EN 933-8+A1 (1)
		2.6. Water content	БДС EN 1097-5 (1)(2)
		2.7. Elastic (Ee cp.) and deformation modulus (permissible deformation) (E2/E1) - by the method of round pressure plate	БДС 15130 (1)(2)
		2.8 Maximum bulk density of the skeleton Optimal water content	БДС EN 13286-2 (1) (2) AASHTO T180 (1) (2)
		2.9. Density on the site by the Substitute sand method	AASHTO T 191 (1)(2)
		2.10. Water content	AASHTO T 265 (1)(2)
		2.11. Volumetric bulk density	БДС EN 1097-3 (1)
		2.12. Grain density specific grain density Volumetric bulk density of the grains in the dry state Volumetric bulk density of grains in water-saturated and surface dry state	БДС EN 1097-6 A wire basket method for aggregate particles passing the 63 mm sieve and retained on the 31,5 mm sieve; A pyknometer method for aggregate particles passing the 31,5 mm sieve and retained on the 4 mm sieve;

Type of the scope: <i>flexible</i> *			
№	Tested Products	Type of Test/Characteristic	Testing methods (standard / validated method)
1	2	3	4
			A pyknometer method for aggregate particles passing the 4 mm sieve and retained on the 0,063 mm sieve (1).
		2.13. Water absorption (1)	БДС EN 1097-6 A wire basket method for aggregate particles passing the 63 mm sieve and retained on the 31,5 mm sieve; A pyknometer method for aggregate particles passing the 31,5 mm sieve and retained on the 4 mm sieve; A pyknometer method for aggregate particles passing the 4 mm sieve and retained on the 0,063 mm sieve (1).
3.	Bitumen petroleum ingredients for road construction.	3.1. Softening point using the Ring and ball Method	БДС EN 1427
		3.2. Penetration at 25 °C	БДС EN 1426
		3.3. Kinematic viscosity	БДС EN 12595
		3.4. Affinity between aggregate and bitumen	boiling water stripping test method
		3.5. Density	БДС EN 15326+A1
4.	Bitumen emulsions	4.1. Resistance to mixing with cement	БДС EN 12848
		4.2. Content of residual binder and oil distillate	БДС EN 1431
		4.3. Leakage time	БДС EN 12846-1
		4.4. Residue from screening	БДС EN 1429

Type of the scope: <i>flexible</i> *		
№	Product	Sampling Testing methods (standard / validated method)
1	2	3
1.	Hot asphalt mixtures for road surfaces.	БДС EN 12697-27
2.	Asphalt layers of asphalt pavements.	БДС EN 12697-27
3.	Rock ingredients and building soils.	БДС EN 932-1
4.	Bitumen petroleum ingredients for road construction.	БДС EN 58

***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.

I ORDER

To issue the certificate of accreditation reg. № 114 ЛИ/31.01.2023, valid until 31.01.2027 and this order as an integral part of it.

The Certificate of accreditation with the enclosure to be received by the Manager/ representative of Ratec Ltd. Sofia, the head of the Construction laboratory, at Ratec Ltd. Sofia, 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 № 114 ЛИ/30.08.2021, valid until 31.01.2023 and its enclosure – EA BAS order reg. № A 524/30.08.2021.

This order shall be notified to the Ratec Ltd. Sofia, within 3 (three) days from its issuance.

Eng. Irena Borislavova

Executive Director of EA BAS

