



Republic of Bulgaria
Executive Agency
Bulgarian Accreditation Service



Signatory to the EA Multilateral Agreement in this field

ORDER

№ A 690

Sofia, 08.12.2022

Pursuant to Art. 10, para. 1, item 2a, of the Law on National Accreditation of Conformity Assessment Bodies and 5.3.1 in connection with item 4.3.8 f), i) of the BAS QR 2 Accreditation Procedure, report BAS QF 2.9.5.5. reg. № 510-ЛИ/296 ЛИ/11/В/06.12.2022 and EA BAS order reg. № A 689/ 08.12.2022, I hereby

AMEND

Certificate of accreditation reg. № 296 ЛИ/31.10.2022, as follows:

**Service Lab EOOD
Testing Division**

Management address:

1404 Sofia, Krasno selo, 117, Nishava Str, floor 3, apt. 6

Laboratory address:

Slivnitsa, Sofia-Region, Babin del locality
(geographical coordinates: 42.860569, 23.043920)

To perform testing of:

Type of the scope: <i>Flexible</i>			
№	Tested products	Type of testing/characteristics	Testing methods (standardised/validated)
1	2	3	4
1.	Bituminous mixtures	1.1. Soluble binder content	БДС EN 12697-1 Annex B, clause B.2.1
		1.2. Particle size distribution	БДС EN 12697-2+A1
		1.3. Maximum density	БДС EN 12697-5 Procedure A
		1.4. Bulk density	БДС EN 12697-6 Procedure A, B, D
		1.5. Air voids content	БДС EN 12697-8
		1.6. Voids content in the mineral aggregate	БДС EN 12697-8
		1.7. Percentage of the voids in the mineral aggregate filled with binder	БДС EN 12697-8
		1.8. Sensitivity to water -	БДС EN 12697-12 Method A

Type of the scope: <i>Flexible</i>			
Nº	Tested products	Type of testing/characteristics	Testing methods (standardised/validated)
1	2	3	4
		indirect tensile strength ratio	
		1.9. Binder drainage	БДС EN 12697-18; Clause 5
		1.10. Indirect tensile strength	БДС EN 12697-23
		1.11. Stability	БДС EN 12697-34
		1.12. Flow	БДС EN 12697-34
2.	Bituminous layers	2.1. Bulk density of bituminous specimen (core)	БДС EN 12697-6 Procedure A
		2.2. Conventional reference density	БДС EN 12697-9*
		2.3. Compaction degree	БДС EN 12697-9*
		2.4. Thickness of bituminous layer	БДС EN 12697-36 Clause 6.1
3.	Bitumen	3.1. Penetration	БДС EN 1426
		3.2. Softening point	БДС EN 1427
		3.3. Elastic recovery	БДС EN 13398
		3.4. Density	БДС EN 15326+A1
4.	Aggregates	4.1. Particle size distribution	БДС EN 933-1
		4.2. Percentage of fines fraction passing the 0.063 mm sieve	БДС EN 933-1
		4.3. Flakiness index	БДС EN 933-3
		4.4. Shape index	БДС EN 933-4
		4.5. Percentage of: - crushed or broken particles - rounded particles - totally crushed or broken particles - totally rounded particles	БДС EN 933-5
		4.6. Shell content	БДС EN 933-7
		4.7. Sand equivalent value	БДС EN 933-8+A1
		4.8. Methylene blue value	БДС EN 933-9
		4.9. Resistance to wear - micro-Deval coefficient	БДС EN 1097-1
		4.10. Resistance to fragmentation - Los Angeles coefficient	БДС EN 1097-2
		4.11. Loose bulk density	БДС EN 1097-3
		4.12. Water content	БДС EN 1097-5
		4.13. Particle density: - apparent particle density - oven-dried particle density - saturated and surface-dried	БДС EN 1097-6 Clause 7, 8, 9 Annex A - clause A.3, A.4 Annex B

Type of the scope: <i>Flexible</i>			
Nº	Tested products	Type of testing/characteristics	Testing methods (standardised/validated)
1	2	3	4
		particle density - pre-dried particle density - particle density of coarse aggregate saturated to constant mass	
		4.14. Water absorption	БДС EN 1097-6 Clause 7, 8, 9 Annex B
		4.15. Magnesium sulfate value	БДС EN 1367-2 БДС EN 13450 Annex G
		4.16. Content of humus	БДС EN 1744-4+A1 Clause 15.1
		4.17. Percentage of lightweight particles	БДС EN 1744-4+A1 Clause 14.2
		4.18. Maximum density of skeleton at optimum water content	БДС EN 13286-2 Clause 7.1, 7-2, 7.4, 7.5 БДС 17146 Clause 3.3 - type of testing H 100, M 100, H 150, M 150
		4.19. California Bearing Ratio	БДС EN 13286-47 Ordinance № ПД-02-20-2, SG 79/2018, Annex № 17
		4.20. Swelling	БДС EN 13286-47
		4.21. Liquid limit	БДС EN ISO 17892-12, Clause 5.4 Ordinance № ПД-02-20-2, SG 79/2018, Annex № 15
		4.22. Plastic limit	БДС EN ISO 17892-12, Ordinance № ПД-02-20-2, SG 79/2018, Annex № 16
		4.23. Plasticity index	БДС EN ISO 17892-12 Ordinance № ПД-02-20-2, SG 79/2018, Annex № 16
		4.24. Elastic module	БДС 15130
		4.25. Deformation module	БДС 15130
		4.26. Deformation modules ratio E2:E1	БДС 15130
		4.27. Deformation module	Ordinance № 55, SG 18/2004, Art. 47
		4.28. Bulk density of skeleton	Ordinance № ПД-02-20-2, SG 79/2018, Annex № 18
		4.29. Degree of compaction	Ordinance № ПД-02-20-2,

Type of the scope: <i>Flexible</i>			
№	Tested products	Type of testing/characteristics	Testing methods (standardised/validated)
1	2	3	4
			SG 79/2018, Annex № 18
		4.30. Resistance to fragmentation under static load	БДС EN 206+A2/NA Annex NA. Q
5.	Fillers	5.1. Particle size distribution	БДС EN 933-1
		5.2. Methylene blue value	БДС EN 933-9
		5.3. Water content	БДС EN 1097-5
		5.4. Particle density	БДС EN 1097-7
		5.5. Percentage of the air voids	БДС EN 1097-4
6.	Construction soils	6.1. Water content	БДС EN ISO 17892-1
		6.2. Bulk density	БДС EN ISO 17892-2 Clause 5.1
		6.3. Density in dry condition	БДС EN ISO 17892-2 Clause 5.1
		6.4. Particle size distribution	БДС EN ISO 17892-4 Clause 5.2
		6.5. Content of humus	БДС EN 1744-4+A1 Clause 15.1
		6.6. Maximum density of skeleton at optimum water content	БДС EN 13286-2 Clause 7.1, 7.2, 7.4, 7.5 БДС 17146 Clause 3.3 - type of testing H 100, M 100, H 150, M 150
		6.7. California Bearing Ratio	БДС EN 13286-47 Ordinance № ПД-02-20-2, SG 79/2018, Annex № 17
		6.8. Swelling	БДС EN 13286-47
		6.9. Uniformity coefficient	БДС EN ISO 14688-2
		6.10. Liquid limit	БДС EN ISO 17892-12, Clause 5.4 Ordinance № ПД-02-20-2, SG 79/2018, Annex № 15
		6.11. Plastic limit	БДС EN ISO 17892-12, Ordinance № ПД-02-20-2, SG 79/2018, Annex № 16
		6.12. Plasticity index	БДС EN ISO 17892-12 Ordinance № ПД-02-20-2, SG 79/2018, Annex № 16
		6.13. Elastic module	БДС 15130
		6.14. Deformation module	БДС 15130
		6.15. Deformation modules ratio E2:E1	БДС 15130
		6.16. Deformation module	Ordinance № 55, SG 18/2004, Art. 47

Type of the scope: Flexible

№	Tested products	Type of testing/characteristics	Testing methods (standardised/validated)
1	2	3	4
		6.17. Bulk density of skeleton	Ordinance № ПД-02-20-2, SG 79/2018, Annex № 18
		6.18. Degree of compaction	Ordinance № ПД-02-20-2, SG 79/2018, Annex № 18
7.	Unbound mixtures	7.1. Particle size distribution	БДС EN 933-1
		7.2. Percentage of fines fraction passing the 0.063 mm sieve	БДС EN 933-1
		7.3. Water content	БДС EN 1097-5
		7.4. Magnesium sulfate value	БДС EN 1367-2
		7.5. Maximum density of skeleton at optimum water content	БДС EN 13286-2 Clause 7.1, 7.2, 7.4, 7.5
		7.6. California Bearing Ratio	БДС EN 13286-47
		7.7. Swelling	БДС EN 13286-47
		7.8. Elastic module	БДС 15130
		7.9. Deformation module	БДС 15130
		7.10. Deformation modules ratio E2:E1	БДС 15130
8.	Hydraulically bound mixtures	8.1. Particle size distribution	БДС EN 933-1
		8.2. Water content	БДС EN 1097-5
		8.3. Maximum density of skeleton at optimum water content	БДС EN 13286-2 Clause 7.1, 7.2, 7.4, 7.5 БДС 17146 Clause 3.3- type of testing H 100, M 100, H 150, M 150
		8.4. Compressive strength	БДС EN 13286-41
		8.5. Workability period	БДС EN 13286-45 Clause 5
		8.6. California Bearing Ratio	БДС EN 13286-47
		8.7. Swelling	БДС EN 13286-47
		8.8. Elastic module	БДС 15130
		8.9. Deformation module	БДС 15130
		8.10. Deformation modules ratio E2:E1	БДС 15130
		8.11. Bulk density of skeleton	Ordinance № ПД-02-20-2, SG 79/2018, Annex № 18
		8.12. Degree of compaction	Ordinance № ПД-02-20-2, SG 79/2018, Annex № 18
		8.13. Immediate bearing index	БДС EN 13286-47
9.	Fresh concretes	9.1. Slump	БДС EN 12350-2
		9.2. Density	БДС EN 12350-6

Type of the scope: <i>Flexible</i>			
№	Tested products	Type of testing/characteristics	Testing methods (standardised/validated)
1	2	3	4
10.	Hardened concrete	10.1. Compressive strength	БДС EN 12390-3
		10.2. Density	БДС EN 12390-7

To perform sampling of:

Type of the scope: <i>flexible</i>		
№	Product	Sampling methods (standard/validated method)
1	2	3
1.	Bituminous mixtures	БДС EN 12697-27, Clause 4.1, 4.3, 4.7
2.	Bituminous layers	БДС EN 12697-27, Clause 4.7
3.	Aggregates	БДС EN 932-1, Clause 8.8, Annex A.2
4.	Construction soils	БДС EN 932-1, Clause 8.8, Annex A.2
5.	Unbound mixtures	БДС EN 932-1, Clause 8.8, Annex A.2
6.	Hydraulically bound mixtures	БДС EN 932-1, Clause 8.8, Annex A.2
7.	Fresh concrete	БДС EN 12350-1

**Repealed but not replaced standard 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. Ordinance № РД-02-20-2/28.08.2018, on road design (SG № 79/25.09.2018, amd. SG № 90/30.10.2018, amd. SG № 38/24.04.2020)

- Appendix № 15 to Art. 160, item 3
- Appendix № 16 to Art. 160, item 3
- Appendix № 17 to Art. 161 and Art. 162
- Appendix № 18 to Art. 168, para. 1

2. Ordinance № 55, Art. 47/29.01.2004, on the design and construction of railway lines, railway stations, railway crossings, and other elements of the railway infrastructure (SG № 18/05.03.2004, amd. SG № 20/12.03.2004, amd. SG № 42/21.05.2004).

I ORDER

To issue the Certificate of accreditation reg. № 296 ЛИ/08.12.2022, valid until 31.10.2026, and this order as an integral part of it.

The Certificate of accreditation with the enclosure to be received at the office of EA BAS by the manager of the Service Lab EOOD, the head of the Testing Division, at Service Lab 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 № 296 ЛИ /31.10.2022, valid until 31.10.2026 and its enclosure – EA BAS order reg. № A 629/ 31.10.2022.

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

Eng. Irena Borislavova

Executive Director of EA BAS

