Republic of Bulgaria
Executive Agency
Bulgarian Accreditation Service

Signatory to the EA Multilateral Agreement in this field

ORDER

№ A 259

Sofia, 28.06.2023

Pursuant to Art. 10, para. 1, item 4, Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies and item 6 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 407/129 ЛИ/ПА/18.01.2023, report reg. № 407/129 ЛИ/ПА/11/В/23.05.2023 and statement of the Accreditation Commission reg. № 407/129 ЛИ/ПА/В/20.06.2023, I hereby

RE-ACCREDIT

Control Ltd
Laboratory for testing of construction soils and products

Management address: 6300 Haskovo, 14, San Stefano Str. floor 3
Laboratory address: 6300 Haskovo, 1, Dimitrovgradsko Shose Blvd.

To perform testing of:

Type of the scope: *Flexible*			
№	**Tested products**	**Type of test / characteristic**	**Test methods (standard / validated method)**
1	**2**	**3**	**4**
1	Soils	1.1. Water content	БДС EN ISO 17892-1
		1.2. Reference density and water content - Proctor compaction	БДС 17146, type H 100 БДС EN 13286-2 cl. 7.1, cl. 7.2
		1.3. Bulk density in natural state by the cutting ring method	БДС EN ISO 17892-2
		1.4. Bulk density in the dry state by the cutting ring method Density of Soil In-Place by the Sand-Cone Method	БДС EN ISO 17892-2 AASHTO T 191
		1.5. Liquid limit	AASHTO T 89 method A
		1.6 Plastic limit	AASHTO T 90

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Type of the scope: *Flexible*			
№	**Tested products**	**Type of test / characteristic**	**Test methods (standard / validated method)**
1	**2**	**3**	**4**
		1.7 Plasticity index	AASHTO T 90
		1.8 Determination of the elastic and deformation modulus using plate load test: - elastic modulus E_e - deformation modules E_1, E_2, E_3 - ratio of deformation modules E_2/E_1)	БДС 15130
		1.9 Water soluble salts and their components: - calcium and magnesium ions; - sulfate ions; - chlorine ions	БДС 11301
		1.10 Organic substances - Organic carbon - Humic substances	БДС 11302
2	Cements	2.1 Fineness	БДС EN 196-6
		2.2 Sulfates	БДС EN 196-2
		2.3 Chlorides	БДС EN 196-2
		2.4 Loss of ignition	БДС EN 196-2
		2.5 Residue insoluble in hydrochloric acid and sodium carbonate	БДС EN 196-2
		2.6 Setting times	БДС EN 196-3
		2.7 Обемопостоянство (Soundness)	БДС EN 196-3 БДС EN 196-3
		2.8 Compressive strength	БДС EN 196-1
		2.9 Flexural strength	БДС EN 196-1
3	Concrete	3.1. Consistence of fresh concrete - Slump test	БДС EN 12350-2
		3.2. Density of concrete mix	БДС EN 12350-6
		3.3. Compressive strength	БДС EN 12390-3
		3.4. Frost resistance - loss of mass - loss of strength	БДС EN 206/NA Annex NA. O, part NA.O.1 – base method
		3.5. Density of hardened concrete	БДС EN 12390-7
		3.6. Depth of penetration of water under pressure	БДС EN 12390-8
		3.7. Водонепропускливост (Water Impermeability)	БДС EN 206/NA Annex NA. N

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№	**Tested products**	**Type of test / characteristic**	**Test methods (standard / validated method)**
1	**2**	**3**	**4**
4	Mixing water for concrete	4.1 Chlorides	БДС EN 1008 БДС EN 196-2
		4.2 Sulfates	БДС EN 1008 БДС EN 196-2
5	Aggregates	5.1. Particle size distribution	БДС EN 933-1
		5.2. Fine fraction - fines passing the 0.063 mm sieve	БДС EN 933-1
		5.3. Flakiness index	БДС EN 933-3
		5.4. Shape index	БДС EN 933-4
		5.5. Percentage of crushed and broken surfaces in coarse aggregate particles - totally crushed particles - crushed particles - totally rounded particles	БДС EN 933-5
		5.6. Loose bulk density	БДС EN 1097-3
		5.7. Particle density - apparent particle density, ρ_a - oven-dried particle density, ρ_{rd} - saturated and surface dried particle density, ρ_{ssd}	БДС EN 1097-6
		5.8. Water absorption, W_{24}	БДС EN 1097-6
		5.9. Resistance to fragmentation at static load	БДС EN 206/NA Annex NA.Q
		5.10. Resistance to fragmentation (Los Angeles)	БДС EN 1097-2
		5.11. Resistance to wear (micro-Deval)	БДС EN 1097-1
		5.12. Natural humidity Water content	БДС 12159 БДС EN 1097-5
		5.13. Water absorption	БДС 12159
		5.14. Frost resistance: - by immediate freezing and defrosting) - magnesium sulphate test	БДС EN 1367-1 БДС EN 1367-2
		5.15. Water-soluble chlorides	БДС EN 1744-1 cl. 7
		5.16. Acid-soluble sulfates	БДС EN 1744-1

Type of the scope: *Flexible*			
№	**Tested products**	**Type of test / characteristic**	**Test methods (standard / validated method)**
1	**2**	**3**	**4**
		5.17. Total Sulfur	БДС EN 1744-1
		5.18. Organic components	БДС EN 1744-1 cl. 15.1
		5.19. Alkali-silica reaction	БДС 14851
6	Masonry mortar and rendering and plastering mortar (lime mortars)	6.1. Consistence	БДС EN 1015-4
		6.2. Bulk density of fresh mortar	БДС EN 1015-6
		6.3. Dry bulk density of hardened mortar	БДС EN 1015-10
		6.4. Water-soluble chloride	БДС EN 1015-17
		6.5. Water absorption coefficient due to capillary action	БДС EN 1015-18
		6.6. Flexural strength	БДС EN 1015-11
		6.7. Compressive strength	БДС EN 1015-11
		6.8. Water vapor diffusion coefficient	БДС EN 1745
		6.9. Heat transfer coefficient	БДС EN 1745
		6.10. Frost resistance - loss of mass - loss of strength	БДС 5771*
7	Building lime	7.1. Calcium oxide	БДС EN 459-2
		7.2. Magnesium oxide	БДС EN 459-2
		7.3. Carbon dioxide	БДС EN 459-2
		7.4. Sulfates	БДС EN 459-2
		7.5. Available lime	БДС EN 459-2
		7.6. Free water content	БДС EN 459-2
		7.7. Yield of lime putty	БДС EN 459-2
		7.8. Loss in ignition	БДС EN 459-2
		7.9. Обемопостоянство (Soundness)	БДС EN 459-2
8	Masonry units	8.1. Dimensions	БДС EN 772-16
		8.2. Configuration	БДС EN 771-1
		8.3. Flatness of surfaces	БДС EN 772-20
		8.4. Active soluble salts content	БДС EN 772-5
		8.5. Compressive strength	БДС EN 772-1
		8.6. Bending tensile strength	БДС EN 772-6

Type of the scope: *Flexible*			
№	**Tested products**	**Type of test / characteristic**	**Test methods (standard / validated method)**
1	**2**	**3**	**4**
		8.7. Water absorption	БДС EN 772-21
		8.8. Freeze-thaw resistance	БДС EN 772-18
		8.9. Percentage of voids	БДС EN 772-9
		8.10. Net and gross dry density	БДС EN 772-13
		8.11. Moisture content	БДС EN 772-10
		8.12. Water absorption due to capillary action/initial rate of water absorption	БДС EN 772-11
		8.13. Thermal resistance	БДС EN 1745
9	Clay roofing tiles	9.1. Geometric characteristics	БДС EN 1024
		9.2. Water impermeability	БДС EN 539-1
		9.3. Flexural strength	БДС EN 538
		9.4. Frost resistance	БДС EN 539-2
10	Concrete roofing tiles	10.1. Hanging length and squareness	БДС EN 491
		10.2. Cover width	БДС EN 491
		10.3. Flatness	БДС EN 491
		10.4. Mass	БДС EN 491
		10.5. Transverse strength	БДС EN 491
		10.6. Water impermeability	БДС EN 491
		10.7. Freeze-thaw resistance	БДС EN 491
11	Concrete paving flags	11.1. Dimensions and appearance	БДС EN 1339
		11.2. Bending strength and breaking load	БДС EN 1339
		11.3. Water absorption	БДС EN 1339
12	Concrete kerb units	12.1. Dimensions and appearance	БДС EN 1340
		12.2. Bending strength and breaking load	БДС EN 1340
		12.3. Water absorption	БДС EN 1340

**Repealed but not replaced standard.*

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 CAB.*

I ORDER

To issue the certificate of accreditation reg. № 129 ЛИ/28.06.2023, valid until 28.06.2027, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the Manager / representative of Control Ltd, the head of Laboratory for testing of construction soils and products at Control 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 № 129 ЛИ/17.02.2022, valid until 28.06.2023 and its enclosure – EA BAS order reg. № А 122/17.02.2022.

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



Eng. Irena Borislavova

Executive Director of EA BAS