Republic of Bulgaria
Executive Agency
Bulgarian Accreditation Service

Signatory to the EA Multilateral Agreement in this fied

ORDER

№ A 306

Sofia, 29.05.2020

Pursuant to Art. 10, paragraph 1, item 4, Art. 28, paragraph 3 of the Law on National Accreditation of Conformity Assessment Bodies and item 7 of the Accreditation Procedure BAS QR 2 in connection with the open procedure Reg. № 151/186 ЛИ/ПА/ 17.10.2019, On-the-site assessment report incoming № 151/186 ЛИ/ПА/4/В/24.02.2020, Annex incoming № 151/186 ЛИ/ПА/9/В/26.03.2020 and Statement of the Accreditation Commission № 151/186 ЛИ/ПА/13/В/04.05.2020, I hereby

RE-ACCREDIT

CONSTRUCTION LABORATORY „ASIST-ENGINEERING" at „ASIST-ENGINEERING" Ltd. - Sofia

Management address: 1612 Sofia, Municipality „Krasno selo", j.k. Lagera, bl. 80 B, ap. 5.
Laboratory address: 1612 Sofia, Municipality „Krasno selo", j.k. Lagera, 6 Haidushka poliana Str.

To perform testing of:

№	Name of tested products	Type of testing / characteristics	Method of testing (standard/validated method)
1	*2*	*3*	*4*
1.	Building soils	1.1. Elastic and deformation modulus determined by loading with a round plate	БДС 15130
		1.1.1. Modulus of elasticity - $E_{e,cp}$	
		1.1.2. Deformation module - $E_{o,1}$	
		1.1.3. Deformation module - $E_{o,2}$	
		1.1.4. Relationship of deformation moduli - $E_{o,2}/E_{o,1}$	
		1.2. Determination the value of the on-site achieved density:	Annex № 18 to Art. 168 par. 1 of Ordinance № РД-02-20-2, ДВ 79/2018
		1.2.1. Bulk density, ρ_d	
2.	Aggregates for concrete, mortar and road construction	2.1. Flakiness index	БДС EN 933-3
		2.2. Water absorption	БДС EN 1097-6
		2.3. Particle size distribution	БДС EN 933-1
		2.3.1. Coefficient of diversity	
		2.3.2. Fines content	

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		2.4. Bulk density (and voids)	БДС EN 1097-3
		2.5. Stability to fragmentation	БДС EN 206+A1/NA, Application NA.Q
		2.6. Shape index	БДС EN 933-4
		2.7. Sand equivalent	БДС EN 933-8+A1
		2.8. Density	БДС EN 1097–6
		2.9. Particle density	БДС EN 1097-7
		2.10. Wear resistance of aggregates with magnesium sulphate (Mg_2SO_4)	БДС EN 1367-2
		2.10.1. Mass loss	
		2.11. Resistance to fragmentation	БДС EN 1097-2
		2.12. Content of crushed and broken particles	БДС EN 933-5
		2.13. Water content	БДС EN 1097-5
		2.14. Shell content	БДС EN 933-7
3.	Fresh concrete	3.1. Slump	БДС EN 12350-2
		3.2. Bulk density	БДС EN 12350-6
		3.3. Degree of compactability	БДС EN 12350-4
		3.4. Air content	БДС EN 12350-7
4.	Hardened concrete	4.1. Compressive strength	БДС EN 12390-3
		4.2. Flexural strength	БДС EN 12390-5
		4.3. Tensile splitting strength	БДС EN 12390-6
		4.4. Bulk density of hardened concrete	БДС EN 12390-7
		4.5. Freeze-thaw resistance	БДС EN 206+A1/NA, Application NA.O, part NA.O.1 (basic method)
		4.5.1. Mass loss	
		4.5.2. Strength loss	
		4.6. Watertightness/depth of penetration of water under pressure	БДС EN 206+A1/NA, Application NA.N
		4.7. Depth of penetration of water under pressure	БДС EN 12390-8
		4.8.1. Compressive strength of concrete in situ on structures and precast concrete elements	БДС EN 13791/NA
		4.8.2 Determination of rebound number	БДС EN 12504-2
		4.8.3. Compressive strength of concrete cores in structures	БДС EN 12504-1
5.	Concrete paving flags and pavements	5.1. Dimensions:	БДС EN 1339, Annex C
		5.1.1. Width	
		5.1.2. Length	
		5.1.3. Thickness	
		5.1.4. Flatness and bending	
		5.1.5. Bevels	
		5.2. Flexural strength	БДС EN 1339, Annex F
		5.2.1. Destructive loading	
		5.3. Water absorption	БДС EN 1339, Annex E
6.	Concrete curbs	6.1. Dimensions:	БДС EN 1340, Annex C
		6.1.1. Width	
		6.1.2. Length	

		6.1.3. Height	
		6.1.4. Thickness	
		6.1.5. Flatness and straightness	
		6.1.6. Bevels	
		6.2. Water absorption	БДС EN 1340, Annex E
		6.3. Flexural strength	БДС EN 1340, Annex F
		6.3.1. Destructive loading	
7.	Concrete paving blocks	7.1. Dimensions:	БДС EN 1338, Annex C
		7.1.1. Width	
		7.1.2. Length	
		7.1.3. Thickness	
		7.1.4. Flatness and bending	
		7.2. Water absorption	БДС EN 1338, Annex E
		7.3. Splitting strength	БДС EN 1338, Annex F
		7.3.1. Destructive loading	
8.	Plastics piping systems	8.1. Dimensions:	БДС EN ISO 3126
		8.2. Density	БДС EN ISO 1183-1, p. 5.2
		8.3. Hydrostatic pressure stability	БДС EN ISO 1167-1
		8.4. Dimensional change under heat (Longitudinal reversion)	БДС EN ISO 2505; БДС ISO 12091
		8.5. Effects of heating	БДС EN ISO 580
		8.6. Elongation at break	БДС EN ISO 6259-1; ISO 6259-2 БДС EN ISO 6259-3
		8.7. Elastic tensile modulus	
		8.8. Tensile strength	
		8.9. Ring stiffness	БДС EN ISO 9969
		8.10. Vicat softening temperature	БДС EN ISO 306; БДС EN 727
		8.11. Dichloromethane resistance	БДС EN 580; БДС EN ISO 9852
		8.12. Impact resistance	БДС EN 744; БДС EN 12061
		8.13. Air-tightness of joints	БДС EN 1053; БДС EN 1054
		8.14. Ring flexibility	БДС EN ISO 13968
		8.15. Seam tensile strength	БДС EN 1979
		8.16. Impact resistance to tees	БДС EN 1716
9.	Conduit systems for cable installations	9.1. Pressure resistance	БДС EN 61386-1
		9.2. Impact resistance	
		9.3. Fire resistance	
		9.4. Tensile strength	
10.	Steel for reinforcement of concrete structures	10.1. Dimensions	БДС EN 10080, p. B.2; БДС EN ISO 15630-1, p. 10,12
		10.2. Mass per linear meter	
		10.3. Tensile strength	БДС EN ISO 15630-1, p. 5; БДС EN ISO 6892-1, Method B
		10.4. Percentage elongation after fracture A	
		10.5. Yield strength (physical)	
11.	Welded grids for reinforcement of concrete structures	11.1. Dimensions	БДС EN 10080, p. B.2
		11.2. Tensile strength	БДС EN ISO 15630-2, p. 5; БДС EN ISO 6892-1, Method B
		11.3. Percentage elongation after fracture A	

		11.4. Yield strength (physical)	
		11.5. Shear force	БДС EN ISO 15630-2

Reference:

- Annex № 18 to Art. 168 par. 1 of Ordinance № RD-02-20-2 of 28 August 2018 on road design, DV 79/2018 - Method for determining the bulk density of construction soils in situ by sand replacement

including sampling/extract of:

№	Name of the product	Sampling method (standardised/validated)
1	2	3
1	Fresh concrete	БДС EN 12350-1: Testing of fresh concrete - Part 1: Sampling

I HEREBY ORDER

To issue the Certificate of accreditation with registration № 186 ЛИ/29.05.2020, valid untill 29.05.2024, with this order and this order enclosed as an integral part of it.

Certificate for accreditation together with the enclosure shall be received by the Manager of „ASIST-ENGINEERING" Ltd, the Manager of the CONSTRUCTION LABORATORY „ASIST-ENGINEERING" at „ASIST-ENGINEERING" 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 Certificate of accreditation № 186 ЛИ/31.05.2016, valid untill 31.05.2020 and Order № A 292/31.05.2016 enclosed to it.

This order is to be anounced to CONSTRUCTION LABORATORY „ASIST-ENGINEERING" at „ASIST-ENGINEERING" Ltd within a 3-day period from its issuance.

Eng. Irena Borislavova
Executive Director of Executive Agency
"Bulgarian Accreditation Service"