SNAS
SLOVENSKÁ NÁRODNÁ AKREDITAČNÁ SLUŽBA
Karloveská 63, 840 00 Bratislava 4, Slovenská republika

CERTIFICATE
OF ACCREDITATION

No. T-008

The Slovak National Accreditation Service based on the decision No. 752/9193/2021/1 dated 08.07.2021 certifies that

Proficiency Testing Solutions Bulgaria Ltd.
PT PROVIDER PTS Bulgaria

36 Despot Slav, Smolyan, 4700, Republic of Bulgaria
ID Number: 206225550

is competent to organize proficiency testing/interlaboratory comparisons in the field of construction materials and constructions within the accreditation scope delineated in the annex. The Annex is an integral part of Certificate of Accreditation.

The accredited body gives evidence of competence to perform the accredited activity impartially and trustworthily by meeting the requirements of the **ISO/IEC 17043: 2010** *Standard.*

Accreditation granted on 08.07.2021 is valid until 08.07.2026.

Bratislava 08.07.2021

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Martin S e n č á k
director

Annex to the decision No. 752/9193/2021/1 and to the Certificate of Accreditation No. T-008 dated 08.07.2021.

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Accreditation scope

Name of the accredited subject: **Proficiency Testing Solutions Bulgaria Ltd.**
PT PROVIDER PTS Bulgaria
36 Despot Slav, Smolyan, 4700, Republic of Bulgaria

Specification of activities of proficiency testing provider

Item	Field	Subject of proficiency testing	Compared properties (parameters, indicators, analytes), Range of compared values (informative)	Indication of the proficiency testing program	Other specification
1	Construction	Aggregates (lightweight and normal-weight coarse, fine and all-in aggregates)	Particle size distribution	PTS year/month-X	At least once per 5 years
			Fines content (Percentage of fines)		
			Shells content		
			Shape index		
			Overall flakiness index		
			Content of particles with crushed and broken surfaces: - crushed and broken particles - rounded particles - totally crushed and broken particles - totally rounded particles		
			Polished Stone Value		
			Water content		
			Loose bulk density (0.10-3.50) Mg/m^3		
			Particle density: - Apparent particle density - Oven- dried particle density - Saturated and surface-dried particle density - Pre-dried particle density		
			Water absorption		
			Percentage of voids		
			Magnesium sulfate value		
			Sand equivalent		
			Methylene blue value		
			Resistance to fragmentation by static loading		
			Resistance to fragmentation – Los Angeles coefficient		
			Resistance to wear (micro Deval coefficient)		
			Affinity between aggregate and bitumen – degree of bitumen coverage		
			Resistance to freezing and thawing (Loss of mass)		
			Loss of strength of basalt aggregate		
			Loss of mass of basalt aggregate		
			Total content of water-soluble salts		
			Content of water-soluble sulfates		
			Content of acid soluble sulfates		
			Content of lightweight contaminators		
			Potential presence of humus		
			Content of water-soluble chloride salts		
			Content of acid soluble chloride salts		
			Total sulfur content		
			Sampling		

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2	Construction	Construction soils/ Aggregates for unbound and hydraulically bound mixtures	Particle size distribution	PTS year/month-X	At least once per 5 years
			Fines content (Percentage of fines)		
			Magnesium sulfate value		
			Resistance to fragmentation by static loading		
			Resistance to fragmentation – Los Angeles coefficient		
			Shape index		
			Overall flakiness index		
			Resistance to wear (micro Deval coefficient)		
			Loose bulk density		
			Percentage of voids		
			Sand equivalent		
			California bearing ratio – CBR		
			Laboratory reference density and water content - Proctor compaction: - maximum bulk density - optimum water content		
			Content of particles with crushed and broken surfaces: - crushed and broken particles - rounded particles - totally crushed and broken particles - totally rounded particles		
			Particle density: - Apparent particle density - Oven- dried particle density - Saturated and surface-dried particle density - Pre-dried particle density		
			Water absorption		
			Plasticity Index		
			Liquid limit		
			Plastic Limit		
			Water content		
			Compressive strength		
			Particle density		
			Elastic module, Deformation module, Deformation modules ratio		
			Bulk density by substitute sand		
			Bulk density of skeleton by substitute sand		
			Bulk density		
			Sampling		

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3	Construction	Filler	Particle size distribution	PTS year/month-X	At least once per 5 years
			Water content		
			Specific density		
			Particle density		
			Methylene blue value		
			Change of softening point by delta ring and ball test		
			Total content of water-soluble salts		
			Content of water-soluble sulfates		
			Content of acid soluble chloride salts		
			Content of acid soluble sulfates		
			Content of water-soluble chloride salts		
			Total sulfur content		
			Sampling		
4		Bitumen and bitumen products (bitumen, modified bitumen, emulsion, asphalt paste)	Penetration	PTS year/month-X	At least once per 5 years
			Softening point		
			Elastic recovery		
			Residual binder and oil distillate by distillation		
			Properties of the residue after evaporation/distillation: - penetration; - softening point; - elastic recovery.		
			Fraass breaking point		
			Flash point		
			Solubility		
			Density		
			Efflux time /viscosity/		
			Particle polarity		
			Storage stability		
			Mixing stability with cement		
			Resistance to hardening at 163°C: change of mass		
			Resistance to hardening at 163°C: retained penetration		
			Resistance to hardening at 163°C: change of softening point		
			Ductility		
			Thermal resistance index		
			Bitumen content		
			Storage stability. Penetration difference between the upper and lower layer		
			Storage stability. Softening point difference between the upper and lower layer		
			Elastic recovery of the residue after loss of mass		
			Residue on 0,5 mm sieve		
			Adhesity with limestone material		
			pH		
			Sampling		



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5	Construction	Asphalt mixtures	Maximum density	PTS year/month-X	At least once per 5 years
			Air voids content		
			Bulk density		
			Stability		
			Flow		
			Particle size distribution		
			Soluble binder content		
			Indirect tensile strength		
			Indirect tensile strength ratio (Water sensitivity)		
			Binder drainage		
			Dimensions of a bituminous specimen" -height; - diameter;		
			Sampling		
6		Laid and compacted bituminous layers	Irregularity of pavement courses /the straightedge test/	PTS year/month-X	At least once per 5 years
			Thickness of a bituminous pavement		
7		Fresh concrete	Air content	PTS year/month-X	At least once per 5 years
			Slump		
			Density		
			Flow table test		
			Sampling		
8		Hardened concrete	Compressive strength	PTS year/month-X	At least once per 5 years
			Freeze-thaw resistance with de-icing salts		
			Density		
			Tensile splitting strength		
			Flexural strength		
			Water impermeability / Depth of penetration of water under pressure		
			Rebound number		
			Resistance to direct freezing and thawing - loss of mass; -loss of compressive strength		
9		Cement	Compressive strength	PTS year/month-X	At least once per 5 years
			Setting times		
			Soundness		
			Standard consistence		
			Sampling		
10		Sprayed concrete	Energy absorption capacity	PTS year/month-X	At least once per 5 years
			Compressive strength of young sprayed concrete		
			Sampling		
11		Mortars (Construction mortars and construction mortars for screed materials)	Bulk density of fresh mortar	PTS year/month-X	At least once per 5 years
			Particle size distribution		
			Dry bulk density of hardened mortar		
			Flexural strength		
			Compressive strength		
			Adhesive strength on substrates		
			Sampling		
12		Grout for prestressing tendons	Fluidity	PTS year/month-X	At least once per 5 years
			Compressive strength		

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13	Construction	Concrete products (Concrete paving flags, Concrete kerb units, Concrete paving blocks)	Tensile splitting strength	PTS year/month-X	At least once per 5 years
			Water absorption		
			Resistance to frost (Loss of mass after test freeze – thaw with de-icing salt)		
			Failure load		
			Shape and dimensions		
			Bending strength		
			Abrasive wear (abrasion according to the Böhme test)		
			Thickness of cover layer		
			Unpolished slip resistance		
14		Masonry units	Geometric dimensions and shape	PTS year/month-X	At least once per 5 years
			Water absorption - water absorption coefficient due to capillary - initial rate of water absorption		
			Compressive strength		
			Water absorption		
			Dry density: - gross density - net density		
15		Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles	Bond strength	PTS year/month-X	At least once per 5 years

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