

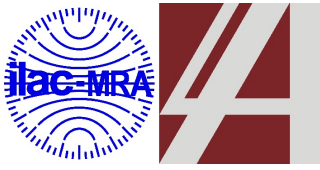


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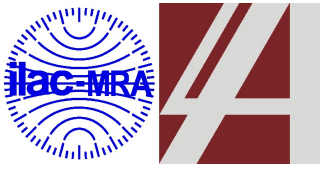
**LABORATORY OF JOINT STOCK COMPANY “VIAMATIKA“
Granito str. 3, LT-02241 Vilnius, Lithuania**

**SCOPE OF ACCREDITATION
(flexible)***

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Bituminous binders (bitumen, bituminous emulsions, hot applied sealants)	Sampling	LST EN 58, c. 8.1	Sampling from permanently installed systems
	Preparation of samples	LST EN 12594	Sample homogenization
	Characterization of perceptible properties	LST EN 1425	Organoleptic evaluation of the sample
	Penetration	LST EN 1426	Needle penetration test
	Softening point	LST EN 1427	Ring and ball method
	Breaking point	LST EN 12593	Fraass method
	Ductility	LST 1362-7	Tensile test
	Density and specific gravity	LST EN 15326	Capillary-stoppered pyknometer method
	Binding with mineral aggregates	LST 1362-23	Visual assessment of binding with mineral aggregates
	Flash and fire point	LST EN ISO 2592	Cleveland open cup method
	Solubility	LST EN 12592	Filtration of an insoluble solid
	Dynamic viscosity (range (4.2–5200) Pa.s)	LST EN 12596	Sample flow through a capillary tube by means of vacuum
	Kinematic viscosity (range (72–20000) mm ² /s)	LST EN 12595	Sample flow through a capillary tube
	Resistance to hardening under influence of heat and air	LST EN 12607-1	RTFOT method
Binding with mineral aggregates	LST EN 15626, except c. 8.2	Water immersion method	
Water content in bituminous emulsions	LST EN 1428	Azeotropic distillation method	



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Bituminous binders (bitumen, bituminous emulsions, hot applied sealants)	Residue on sieving of bituminous emulsions and storage stability	LST EN 1429	Sieving using sieves of set size. Mass differential method
	Efflux time of bituminous emulsion	LST EN 12846-1	Determination of efflux time by the efflux viscometer
	Efflux time of cut-back and liquid bituminous binders	LST EN 12846-2	Determination of efflux time by the efflux viscometer
	Mixing stability of bituminous emulsions with cement	LST EN 12848	Filtration and mass differential method
	Adhesivity of bituminous emulsions	LST EN 13614	Water immersion method
	Recovery of binder from bituminous emulsion or cut-back or fluxed bituminous binders	LST EN 13074-1	Evaporation method
	Stabilisation after recovery by evaporation	LST EN 13074-2	Heat treatment and aeration
	Elastic recovery of modified bitumen	LST EN 13398	Sample stretching at a constant rate
	Storage stability of modified bitumen	LST EN 13399	Layering method
	Penetration power of bituminous emulsions	LST EN 12849	Determination of penetration time
	Cohesion	LST EN 13588	Pendulum test
	Tensile properties of modified bitumen	LST EN 13589	Force ductility method
	Bitumen recovery from bituminous mixtures	LST EN 12697-3	Recovery by rotary evaporator
	Breaking value of cationic bitumen emulsions	LST EN 13075-1	Mineral filler method
	Fines mixing time of cationic bituminous emulsions	LST EN 13075-2	Mineral filler method
	Binder aggregate adhesivity	LST EN 12272-3, c. 4	Vialit plate shock test method
	Preparation of hot applied joint sealant samples	LST EN 13880-6	Heat treatment
Hot applied joint sealant cone penetration at 25°C	LST EN 13880-2	Cone penetration depth	

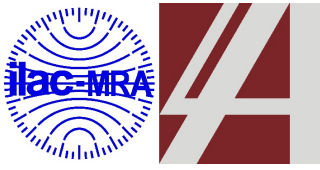


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Bituminous binders (bitumen, bituminous emulsions, hot applied sealants)	Hot applied joint sealant penetration and recovery (resilience)	LST EN 13880-3	Ball-penetration test and sample recovery after penetration
Bituminous mixtures and road surface	Sampling	LST EN 12697-27	Methods of sampling of bituminous mixtures for roads and other paved areas in order to determine their physical properties and composition
	Preparation of samples for determining binder content, water content and grading	LST EN 12697-28	Examination, pre-treatment and heat treatment, sample reduction by quartering
	Dimensions of a specimen	LST EN 12697-29	Measurement using a caliper
	Specimen preparation by impact compactor	LST EN 12697-30	Impact compaction method
	Specimen preparation by roller compactor	LST EN 12697-33, c. 7.2	Compaction method
	Marshall test	LST EN 12697-34	Determining stability, flow and Marshall coefficient values
	Laboratory mixing of mixtures	LST EN 12697-35, excluding annexes A and B	Mixing method
	Determination of the thickness of bituminous pavement	LST EN 12697-36, c. 4.1	Measurement using a caliper
	Layer thickness	Methodical Guidelines for Determining the Thickness of Road Pavement Structural Layers MN SSN 15, c. VII	Measurement using electromagnetic induction method
	Determination of the thickness of bituminous pavement	Methodical Guidelines for Determining the Thickness of Road Pavement Structural Layers MN SSN 15, c. VIII	Determining the thickness of a layer by measuring a cored specimen
	Soluble binder content	LST EN 12697-1, c.5.4.2.1	Differential method
Particle size distribution	LST EN 12697-2	Sieving method	



Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Bituminous mixtures and road surface	Maximum density	LST EN 12697-5, c.9.2	Volumetric method
	Bulk density	LST EN 12697-6	Dry, saturated surface dry (SSD), sealed specimen methods and by dimensions
	Void characteristics	LST EN 12697-8	Calculation method
	Affinity between aggregate and bitumen	LST EN 12697-11, c. 5	Rotating flask test
	Water sensitivity	LST EN 12697-12, method A	Comparison of dry specimens and specimens immersed in water
	Binder drainage	LST EN 12697-18, c. 5	Beaker method
	Wheel tracking	LST EN 12697-22, c.8.3	Determining the susceptibility to deform by the rut formed by repeated passes of a loaded wheel at constant temperature
	Indirect tensile strength	LST EN 12697-23	Compression method
	Shear test	TP Asphalt-StB, teil 80	Compression method
	Residual binder content in slurry surfacing	LST EN 12274-2	Differential method
	Measurement of pavement surface macrotexture depth	LST EN 13036-1	Volumetric patch technique
	Slip/skid resistance of a surface	LST EN 13036-4	Pendulum test
	Irregularity measurement of pavement courses	LST EN 13036-7	Straightedge test
Soils, mineral materials and their mixtures (soils, fillers, roadbed, unbound and hydraulically (or with bituminous binders) bound mixtures)	Sampling	LST 1360.9	Sampling of natural and filled-up soil and mixtures thereof
	Determination of particle size distribution by sieving	LST 1360.1, c. 4 LST EN ISO 17892-4, c. 5.2	Sieving method
	Determination of particle size distribution by sedimentation	LST 1360.1, c. 5 LST EN ISO 17892-4, c. 5.3	Sedimentation method
	Dependency of dry density of soil on water content	LST 1360-2	Proctor test

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Soils, mineral materials and their mixtures (soils, fillers, roadbed, unbound and hydraulically (or with bituminous binders) bound mixtures)	Liquid and plastic limit	LST 1360.4	Casagrande and soil thread rolling methods
	Liquid and plastic limit	LST EN ISO 17892-12, c. 5.3, 5.5	Fall cone and soil thread rolling methods
	Bearing capacity	LST 1360-5 DIN 18134	Determining the deformation modulus of a structure by 300 mm plate static loading test
	Bearing capacity	Instruction for the determination of the dynamic deformation modulus E_{vd} of road base and sub-base with the light-weight deflector	Determining dynamic deformation modulus by falling weight deflector
	Determination of soil density in the field	LST 1360-6, c. 6, 7.2, 7.3 DIN 18125-2, c. 7.0, 8.2, 8.3	Laboratory weighing of the specimen, determining the volume by ring method and replacement by sand
	Density of particles of soils	LST 1360.7, c. 3 LST EN ISO 17892-3, c. 5.1	Capillary pycnometer method
	Water content	LST EN ISO 17892-1, excluding annex A, B, C	Weighing and drying method
	Water permeability	LST CEN ISO 17892-11, c. 6.2.2, 6.3.2	Water permeability under constant or falling head
	Laboratory measurement of dry density and water content Sampling	LST EN 13286-1	Method selection and sampling requirements
	Organic matter content	LST EN 13039	The loss on ignition method
	Sampling	LST 1971	Sampling from road structure without binders
	Determining laboratory reference density and water content	LST EN 13286-2, excluding annex B	Proctor compaction method
	Compressive strength	LST EN 13286-41	Compression method
Indirect tensile strength	LST EN 13286-42	Compression method	



Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Soils, mineral materials and their mixtures (soils, fillers, roadbed, unbound and hydraulically (or with bituminous binders) bound mixtures)	Bearing index and linear swelling	LST EN 13286-47	California bearing ratio (CBR). Determining the ratio between the penetration depth measured force and standard force
	Manufacture of test specimens	LST EN 13286-50	Compaction by Proctor equipment or vibrating table
	Layer thickness	Methodical instructions for determination of thickness of layers of road pavement construction MN SSN 15, c. X	Measurement by depth gauge
	Sampling	LST EN 932-1, excluding c. 8.9	Methods for single or aggregate sample composition, division and reduction
	Sample reduction	LST EN 932-2, excluding c. 7	Quartering, divider and fractional shovelling methods
	Classification of aggregates	LST EN 932-3	Simplified petrographic analysis method
	Particle size distribution	LST EN 933-1	Sieving method
	Flakiness index	LST EN 933-3	Sieving method
	Shape index	LST EN 933-4	Measurement using a caliper
	Percentage of crushed and broken surfaces	LST EN 933-5	Visual and weighing method
	Flow coefficient	LST EN 933-6, c. 8	Flow time measurement using a standard device
	Resistance to wear	LST EN 1097-1	Micro-Deval test method (M_{DE}), ($M_{DE RB}$)
	Resistance to fragmentation	LST EN 1097-2, c.5 annex A, c. 2	Los Angeles test method (LA), (LA_{RB})
	Resistance to fragmentation	LST EN 1097-2, c.6 annex A, c. 3	Impact test method (SZ), (SZ_{RB})
	Bulk density and voids	LST EN 1097-3	Weighing a specimen in a standard measuring container
Water content	LST EN 1097-5	Weighing and drying method	

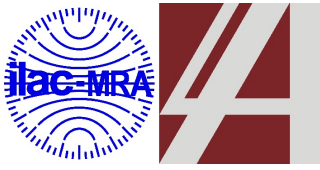
Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Soils, mineral materials and their mixtures (soils, fillers, roadbed, unbound and hydraulically (or with bituminous binders) bound mixtures)	Particle density and water absorption	LST EN 1097-6	Pyknometer and wire basket method
	Resistance to polishing	LST EN 1097-8	Aggregate polishing and measurement of friction (polished stone value)
	Density, dry bulk density, compactness and porosity	LST 1361.7	Pyknometer, water displacement, measuring cylinder and wire basket methods
	Railway ballast particle length	LST EN 13450, c. 6.7	Measurement using a caliper
	Resistance to freezing and thawing	LST EN 1367-1, LST EN 13450, annex F	Assessment of change of physical properties
	Thermal and weathering properties	LST EN 1367-2, LST EN 13450, annex G	Magnesium sulfate method
	Resistance to freezing and thawing in the presence of salt	LST EN 1367-6	Assessment of change of physical properties
	Impact resistance	LST 1361.10	Impact test method (SR)
	Strength estimation by cleavage	LST 1476.7, c. 6	Crushing test method using a standard cylinder
	Chemical analysis: content of lightweight contaminants, content of humus, water solubility	LST EN 1744-1, c. 14.2, 15.1, 16	Washing, visual and extraction-filtering method
	Grading of activated mineral powder	LST 1419-2, c. 4	Washing and sieving method
	Determining the stiffening effect of filler aggregate mixed with bitumen	LST EN 13179-1	Delta ring and ball test
	Determining the apparent viscosity of water and filler aggregate mixture	LST EN 13179-2	Bitumen number
	Water sensitivity	LST EN 1744-4, excluding annex A	Filtering and weighing method
	Voids of compacted filler	LST EN 1097-4	Rigden test method
Density of particles	LST EN 1097-7	Pyknometer method	



Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Soils, mineral materials and their mixtures (soils, fillers, roadbed, unbound and hydraulically (or with bituminous binders) bound mixtures)	Determining the geometrical properties. Assessment of fines	LST EN 933-8	Sand equivalent method
	Determining the geometrical properties. Assessment of fines	LST EN 933-9	Methylene blue test method
	Grading of filler aggregates	LST EN 933-10	Air jet sieving
Fresh concrete, hardened concrete, concrete and natural stone products	Sampling of fresh concrete	LST EN 12350-1	Sampling and local sampling
	Slump of fresh concrete	LST EN 12350-2	Determining the consistency by slump test method
	Compactability of fresh concrete	LST EN 12350-4	Determining the consistency by compactability test method
	Flow of fresh concrete	LST EN 12350-5	Determining the consistency by flow table test method
	Density of fresh concrete	LST EN 12350-6	Weighing of the compacted mixture in a container of known volume and weight
	Temperature of fresh concrete	LST 1428.5	Measurement of temperature
	Air content in compacted concrete mixture	LST EN 12350-7, c. 6	Pressure gauge method
	Shape, dimensions and other requirements for specimens and moulds	LST EN 12390-1	-
	Making and curing specimens for strength tests	LST EN 12390-2	Specimen manufacturing methods, labelling, curing and transport conditions
	Compressive strength of hardened concrete	LST EN 12390-3, excluding annex A.1, A.3-A.5	Compression method
	Density of hardened concrete	LST EN 12390-7	Water displacement and calculation by measurement methods
Determining the depth of water penetration of hardened concrete	LST EN 12390-8	Determining the depth of water penetration under pressure	



Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Fresh concrete, hardened concrete, concrete and natural stone products	Taking, examining and compression of cored specimens	LST EN 12504-1	Taking, examining, preparation and compression of cored specimens
	Acceptance of a delivery of paving blocks	LST EN 1338, annex B	Visual method
	Measurement of the dimensions of a single paving block	LST EN 1338, annex C	Dimension measurement methods
	Resistance of paving blocks to freezing and thawing in the presence of deicing salt	LST EN 1338, annex D	Determining the loss of weight per area unit
	Total water absorption of paving blocks	LST EN 1338, annex E	Determining the value of water absorption
	Determining the tensile strength of paving blocks	LST EN 1338, annex F	Compression-cleavage method
	Abrasion resistance of paving blocks	LST EN 1338, annex G	Determining the abrasion resistance using an abrasive material
	Unpolished slip resistance of paving blocks	LST EN 1338, annex I	Pendulum method (ASV)
	Visual aspects of paving blocks	LST EN 1338, annex J	Visual method
	Acceptance of a delivery of paving flags	LST EN 1339, annex B	Visual method
	Measurement of the dimensions of a single paving flag	LST EN 1339, annex C	Dimension measurement methods
	Resistance of paving flags to freezing and thawing in the presence of deicing salt	LST EN 1339, annex D	Determining the loss of weight per area unit
	Total water absorption of paving flags	LST EN 1339, annex E	Determining the value of water absorption
	Bending strength and breaking load of paving flags	LST EN 1339, annex F	Bending method
	Abrasion resistance of paving flags	LST EN 1339, annex G	Determining the abrasion resistance using an abrasive material
	Unpolished slip resistance of paving flags	LST EN 1339, annex I	Pendulum method (ASV)



Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Fresh concrete, hardened concrete, concrete and natural stone products	Visual aspects of paving flags	LST EN 1339, annex J	Visual method
	Acceptance of delivery of kerb units	LST EN 1340, annex B	Visual method
	Measurement of the dimensions of a single kerb unit	LST EN 1340, annex C	Dimension measurement methods
	Resistance of kerb units to freezing and thawing in the presence of deicing salt	LST EN 1340, annex D	Determining the loss of weight per area unit
	Total water absorption of kerb units	LST EN 1340, annex E	Determining the value of water absorption
	Bending strength of kerb units	LST EN 1340, annex F	Bending method
	Abrasion resistance of kerb units	LST EN 1340, annex G	Determining the abrasion resistance using an abrasive material
	Unpolished slip resistance of kerb units	LST EN 1340, annex I	Pendulum method (ASV)
	Visual aspects of kerb units	LST EN 1340, annex J	Visual method
	Geometric characteristics of natural stone	LST EN 13373, c. 6.1-6.4, 6.5 (products till 500 mm), c. 6.7.3 (products till 280 mm), c. 6.8	Measurement methods
	Determination of frost resistance of natural stone	LST EN 12371, test A	Determining the change in strength by bending or compression methods
	Uniaxial compressive strength of natural stone	LST EN 1926	Compression method
	Flexural strength under concentrated load of natural stone	LST EN 12372	Bending method
	Abrasion resistance of natural stone	LST EN 14157, method A	Determining the abrasion resistance using an abrasive material
	Water absorption at atmospheric pressure	LST EN 13755	Determining the value of water absorption

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Synthetic polymer road construction materials (geosynthetics, geotextiles, flexible sheets for waterproofing, plastics)	Sampling and preparation of test specimens	LST EN ISO 9862	Sampling and test specimen preparation methods
	Determination of thickness at specified pressures	LST EN ISO 9863-1, except geospacers (GSP) and drainage geocomposites (GCO-D)	Measurement using an indicator
	Mass per unit area	LST EN ISO 9864	Determining the mass per unit area
	Wide-width tensile test	LST EN ISO 10319	Tensile test
	Tensile test for joints/seams	LST EN ISO 10321	Tensile test
	Determination of water permeability characteristics normal to the plane, without load	LST EN ISO 11058, excluding c. 5	Determination of water permeability characteristics under falling head
	Static puncture test	LST EN ISO 12236	Determining puncture force (CBR)
	Dynamic perforation test	LST EN ISO 13433	Cone drop test
	Tensile properties of flexible sheets for waterproofing	LST EN 12311-1	Tensile test
	Bond strength of flexible sheets for waterproofing	LST EN 13596	Waterproofing tear test
	Tensile properties of plastics. General principles.	LST EN ISO 527-1	Tensile test
	Tensile properties of plastics. Test conditions for films and sheets	LST EN ISO 527-3	Tensile test
	Determination of the thickness of plastics	ISO 4593	Measurement using an indicator



Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
Road traffic safety elements (road marking materials, fixed, vertical road traffic signs, hot dip galvanized coatings on fabricated iron and steel articles, paints and varnishes)	Road marking performance: luminance coefficient under diffuse illumination Q_d ; coefficient of retroreflected luminance R_L	LST EN 1436, annexes: A, B	Measurement of daytime and night-time visibility using a retroreflectometer
	Vertical road sign retroreflection coefficient R_A	LST EN 12899-1, CIE 54.2, c. 5.5	Measurement of retroreflection using a retroreflectometer
	Film thickness of traffic safety and other elements (zinc, varnishes, films)	LST EN ISO 1461, c. 6.2, LST EN ISO 2808, 7B.2 non-destructive method, LST EN ISO 2178, c. 4.3	Magnetic induction principle

- *Defined and applicable for the whole accreditation scope following degrees of flexibility:
- application of the updated documents of test methods already covered by accreditation or replacing them;
 - application of the test method already covered by accreditation to the new materials/ products.

Actual scope of accreditation is published on the website www.viamatika.lt.

Director

Dalia Baležentė