

VIAMATIKA



Technical Supervision of Construction Certification Center Laboratory

www.viamatika.lt



YOUR BUSINESS PARTNER FOR QUALITY CONTROL OF INFRASTRUCTURE ENGINEERING STRUCTURES



30 +

YEARS OF EXPERIENCE



200 +

ACCREDITED
LABORATORY TESTS



50 +

LABORATORY
SPECIALISTS



40 +

TECHNICAL SUPERVISION
AND FIDIC SPECIALISTS

CERTIFICATION CENTER

We provide impartial third-party assessment and verification of the constancy of performance of construction products in accordance with the Lithuanian Construction Technical Regulation STR 1.01.04:2015, Construction Products Regulation (EU) No. 305/2011.

Certification Center is the notified certification assessment body NB CAB No. 1567 and accredited to EN ISO/IEC 17065 standard.

LABORATORY

The competence of the Laboratory complies with the requirements of the standard EN ISO/IEC 17025.

The Laboratory provides testing of road construction products and carries out scientific R&D projects.

TECHNICAL SUPERVISION OF CONSTRUCTION

Technical supervision of construction is carried out in accordance with the Law on Construction and the Technical Regulation for Construction (STR 1.06.01:2016) – Construction works. Technical supervisors ensure the quality and quantity of completed construction works, verifying that construction is carried out in compliance with the project design. FIDIC engineer services are also provided.

TECHNICAL SUPERVISION OF CONSTRUCTION

Technical supervision of construction is carried out in accordance with the Law on Construction and the Technical Regulation for Construction (STR 1.06.01:2016). Technical supervisors ensure the quality and quantity of completed construction works, verifying that construction is carried out in compliance with the project design.

FIDIC ENGINEER SERVICES

FIDIC engineer services are provided in accordance with the standard contract conditions of the International Federation of Consulting Engineers (FIDIC).

SERVICES ARE PROVIDED IN THE FOLLOWING AREAS:

Transport Communication Structures

Roads

Streets

Railway Tracks

Airport (Aerodrome) Structures

Marine Port Structures

Other Transportation Structures (bridges, overpasses, viaducts, etc.)

Engineering Networks

Water Supply Networks

Wastewater Networks

Electrical Networks

Communication (telecommunication) Networks

Hydraulic Structures

Engineering Structures for Other Purposes (landfills)

Land Reclamation Structures

Nuclear Energy Facility Structures



CERTIFICATION CENTER

Certification center - conformity assessment body accredited in 2000 by the Lithuanian National Accreditation Bureau (LA) (accreditation certificate No. LA.03.006).

The notified conformity assessment body (NB CAB No. 1567) is published on NANDO database.

Participates in the activities of European Technical Committees CEN/TC 154, CEN/TC 227 and CEN/TC 336.



ACCREDITED SCOPE STR 1.01.04 Non-harmonized Construction Products specification

Construction Product	Technical Specification
Unbound mixtures	EN 13285

ACCREDITED SCOPE EU CONSTRUCTION PRODUCT REGULATION CPR NO 305/2011 Harmonized technical specification (CE marking)

Construction Product	Technical Specification
Aggregates for:	
- bituminous mixtures and surface treatments	EN 13043
- unbound or hydraulically bound mixtures	EN 13242
- lightweight aggregates for bituminous mixtures and surface treatments	EN 13055-2
Aggregates for concrete	EN 12620
Aggregates for mortar	EN 13139
Aggregates for railway ballast	EN 13450
Bituminous mixtures:	
- asphalt concrete	EN 13108-1
- asphalt concrete for very thin layers	EN 13108-2
- soft asphalt	EN 13108-3
- hot rolled asphalt	EN 13108-4
- stone mastic asphalt	EN 13108-5
- mastic asphalt	EN 13108-6
- porous asphalt	EN 13108-7
Surface dressing	EN 12271
Slurry surfacing	EN 12273
Paving grade bitumen	EN 12591
Polymer modified bitumens	EN 14023
Cationic Bituminous emulsions	EN 13808

SUSTAINABILITY SERVICES

Construction Product Life Cycle Assessment (LCA)	ISO 14025
Environmental Product Declaration (EPD)	EN 15804

LABORATORY

The laboratory is accredited assessment body to the LST EN ISO/IEC 17025 standard No. (LA.01.015) since 1998.

The Laboratory performs over 200 different tests, including asphalt, bituminous binders, concrete, soils, aggregates, road pavement, and other tests and investigations. It assesses the quality of construction products and ensures their compliance with regulatory document requirements. Scientific research activities are also conducted.

Clients' needs are constantly analyzed, and the scope of services provided is continuously expanded.



LIST OF TESTS

BITUMINOUS MIXTURES

Sampling	EN 12697-27
Specimen preparation by impact compactor	EN 12697-30
Bulk density	EN 12697-6
Maximum density	EN 12697-5
Air voids content	EN 12697-8
Preparation of samples	EN 12697-28
Soluble binder content	EN 12697-1
Particle size distribution	EN 12697-2
Bitumen recovery	EN 12697-3
Specimen preparation by roller compactor	EN 12697-33
Wheel tracking	EN 12697-22
Dimensions	EN 12697-29
Shear test	TP Asphalt-StB, teil 80
Interlayer Bonding	EN 12697-48
Indirect tensile strength	EN 12697-23
Water sensitivity	EN 12697-12
Marshall test	EN 12697-34
Laboratory mixing	EN 12697-35
Binder drainage	EN 12697-18
Stiffness	EN 12697-26
Indentation	EN 12697-20
Specimen preparation by gyratory compactor	EN 12697-31

ROAD AND POLYMER MODIFIED BITUMEN

Sampling	EN 58
Preparation of test samples	EN 12594
Penetration	EN 1426
Softening point	EN 1427
Breaking point	EN 12593
Elastic recovery	EN 13398
Density and specific gravity	EN 15326
Density or relative density	EN ISO 3838
Elasticity	1362-7
Dynamic viscosity	EN 12596
Kinematic viscosity	EN 12595
Resistance to hardening	EN 12607-1
Tensile properties	EN 13589
Solubility	EN 12592
Flash and fire points	EN ISO 2592
Affinity between aggregate and bitumen	EN 12697-11
Water content	EN 12697-14, ISO 3733
Adhesion to aggregates	1362-23
Visualisation of polymer dispersion	EN 13632
Volume expansion and half life of foamed bitumen	Wirtgen GmbH
Bitumen particle sizes and quantities	Methodology No. M3-13
Determination of storage stability	EN 13399



BITUMEN EMULSIONS

Water content	EN 1428
Recovery of binder	EN 13074-1
Residue on sieving	EN 1429
Storage stability	EN 1429
Efflux time	EN 12846-1
Breaking value	EN 13075-1
Adhesivity	EN 13614
Cohesion	EN 13588
Aggregate adhesivity	EN 12272-3
Mixing stability with cement	EN 12848
Fines mixing time	EN 13075-2
Residual binder	EN 1431
Settling tendency	EN 12847
Penetration power	EN 12849
Stabilization after recovery	EN 13074-2
Particle polarity	EN 1430
Perceptible properties	EN 1425

SLURRY SURFACING

Component alignment	LST 1501.2
Wearing resistance	EN 12274-5
Consistency	EN 12274-3
Mixing and binding time	LST 1501.2
Stability and ductility of mixtures by Marshall	LST 1501.2
Residual binder content	EN 12274-2
Cohesion of the mix	EN 12274-4

HOT APPLIED JOINT SEALANTS

Preparation of samples	EN 13880-6
Penetration	EN 13880-2
Softening point	EN 1427
Penetration and recovery	EN 13880-3

CUT-BACK AND FLUXED BITUMINOUS BINDERS

Kinematic viscosity	EN 12595
Efflux time	EN 12846-2
Adhesivity	EN 15626
Distillation characteristics	EN 13358

MINERAL FILLER

Moisture	1419-2
Particle size distribution	1419-2
Hydrophobicity	1419-2
Density	1419-2
Voids of dry compacted filler	EN 1097-4
Grading of filler aggregates	EN 933-10
Bitumen number	EN 13179-2
Delta ring and ball test	EN 13179-1
Water susceptibility	EN 1744-4
Particle density of filler	EN 1097-7
Water solubility	EN 1744-1



SOIL TESTING

Sampling	LST 1360-9
Particle size distribution by sieving	LST 1360-1 EN ISO 17892-4
Particle size distribution by sedimentation	EN ISO 17892-4
Liquid and plastic limit	EN ISO 17892-12
Water content	ISO 17892-1
Water content by rapid methods	LST 1360-3
Proctor test	LST 1360-2
Particle density	EN 17892-3
Volume (ring method)	LST 1360-6 DIN 18125-2
Volume (sand replacement method)	LST 1360-6 DIN 18125-2
Laboratory determination of mass	LST 1360-6
Determination of organic matter content and ash	EN 13039
Filtration coefficient	R 34-01

UNBOUND AND HYDRAULICALLY BOUND MIXTURES

Sampling	EN 13286-1
Particle size distribution	EN 933-1
Permeability test	EN ISO 17892-11
Proctor compaction	EN 13286-2
California bearing ratio and immediate bearing index	EN 13286-47
Manufacture of test specimens	EN 13286-50
Compressive strength	EN 13286-41
Indirect tensile strength	EN 13286-42
Preparation and curing of test specimens	MN RM-ŠB 11, MN RK-ŠB 11

AGGREGATES

Sampling	EN 932-1
Reducing of laboratory samples	EN 932-2
Particle size distribution	EN 933-1
Flakiness index	EN 933-3
Shape index	EN 933-4
Percentage of crushed and broken surfaces	EN 933-5
Particle density and water absorption	EN 1097-6
Loose bulk density and voids	EN 1097-3
Lightweight contaminators	EN 1744-1
Potential presence of humus	EN 1744-1
Flow coefficient	EN 933-6
Methylene blue test	EN 933-9
Sand equivalent test	EN 933-8
Water content	EN 1097-5
Simplified petrographic description	EN 932-3
Polished stone value (PSV)	EN 1097-8
Micro-Deval	EN 1097-1
Los Angeles coefficient	EN 1097-2
Impact value (SZ)	EN 1097-2
Resistance to freezing and thawing	EN 1367-1
Resistance to freezing and thawing in the presence of salt	EN 1367-6
Magnesium sulfate test	EN 1367-2



RAILWAY BALLAST

Sampling	EN 932-1
Particle size distribution	EN 933-1
Shape index	EN 933-4
Los Angeles coefficient	EN 1097-2
Impact value (SZ_{RB})	EN 1097-2
Micro-Deval	EN 1097-1
Resistance to freezing and thawing	EN 1367-1
Magnesium sulfate	EN 1367-2
Loose bulk density and voids	EN 1097-3
Particle density and water absorption	EN 1097-6
Particle length	EN 13450

GEOSYNTHETICS, GEOTEXTILES

Sampling and preparation of test specimens	EN ISO 9862
Mass per unit area	EN ISO 9864
Tensile test	EN ISO 10319
Tensile test for joints/seams	EN ISO 10321
Thickness	EN ISO 9863-1
Static puncture test (CBR)	EN ISO 12236
Dynamic perforation (cone drop test)	EN ISO 13433
Water permeability characteristic (normal to the plane)	EN ISO 11058
Characteristic opening size	EN ISO 12956

WATERPROOFING

Tensile properties	EN 12311-1
Bond strength	EN 13596

PLASTIC (UP TO 1MM THICK)

Thickness	ISO 4593:1993
Tensile properties	EN ISO 527-1, EN ISO 527-3

SALT TESTS

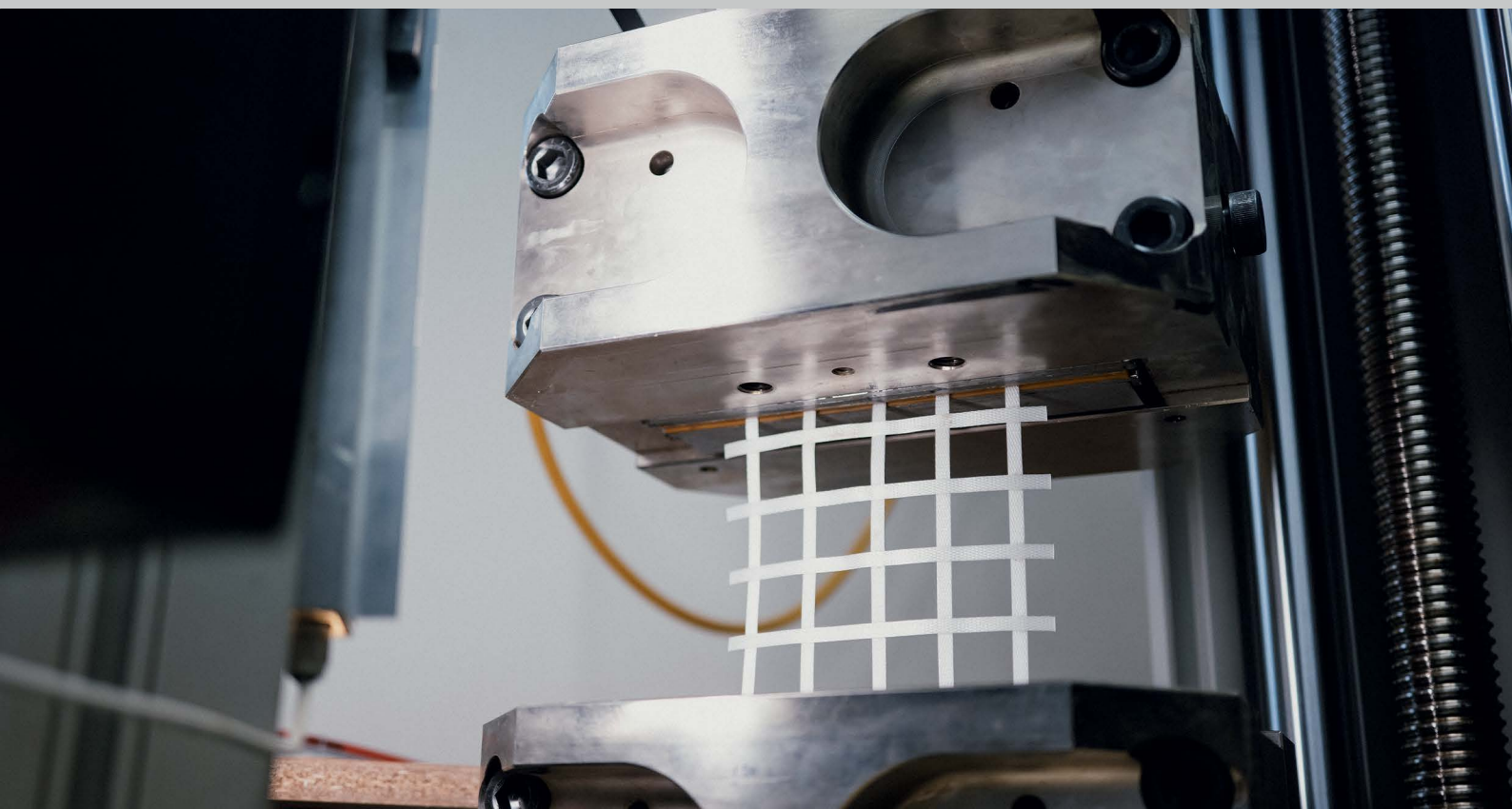
Particle size distribution	EN 16811-1
Matter insoluble in water	ISO 2479
Chloride content	EN 16811-1
Moisture content	ISO 2483

SOLID BIOFUELS

Total moisture	EN ISO 18134-2
Ash content	EN ISO 18122
Calorific value	EN ISO 18125

CEMENT

Taking and preparing samples	EN 196-7
Determination of fineness	EN 196-6
Normal consistency of cement paste	EN 196-3
Start and end of cement paste binding	EN 196-3



FRESH CONCRETE MIXTURES

Sampling	EN 12350-1
Flow table test	EN 12350-5
Slump test	EN 12350-2
Density	EN 12350-6
Degree of compactability	EN 12350-4
Temperature	EN 12350-1
Temperature	LST 1428.5
Air content	EN 12350-7

CONCRETE PAVING BLOCKS

Acceptance of a consignment at delivery	EN 1338
Verification of visual aspects	EN 1338
Dimensions of a single unit	EN 1338
Total water absorption	EN 1338
Unpolished slip resistance value (USRV)	EN 1338
Abrasion resistance	EN 1338
Bending strength	EN 1338
Freeze/thaw resistance with de-icing salt	EN 1338

CONCRETE PAVING FLAGS

Acceptance of a consignment at delivery	EN 1339
Verification of visual aspects	EN 1339
Dimensions of a single flag	EN 1339
Total water absorption	EN 1339
Unpolished slip resistance value (USRV)	EN 1339
Abrasion resistance	EN 1339
Bending strength	EN 1339
Freeze/thaw resistance with de-icing salt	EN 1339

HARDENED CONCRETE SPECIMENS

Shape and dimensions	EN 12390-1
Making and curing	EN 12390-2
Compressive strength	EN 12390-3
Density	EN 12390-7
Depth of penetration of water under pressure	EN 12390-8
Cored specimens – taking, examining and compression	EN 12504-1
Determination of rebound number	EN 12504-2
Freeze-thaw resistance with de-icing salts - Scaling	CEN/TS 12390-9

CONCRETE CURBS

Acceptance of a consignment at delivery	EN 1340
Verification of visual aspects	EN 1340
Dimensions of a single unit	EN 1340
Total water absorption	EN 1340
Unpolished slip resistance value (USRV)	EN 1340
Abrasion resistance	EN 1340
Bending strength	EN 1340
Freeze/thaw resistance with de-icing salt	EN 1340

NATURAL STONE

Geometric characteristic on units	EN 13373
Water absorption at atmospheric pressure	EN 13755
Flexural strength under concentrated load	EN 12372
Uniaxial compressive strength	EN 1926
Abrasion resistance	EN 14157
Frost resistance as measured by bending or compressive strength	EN 12371



ON-SITE TESTS

Sampling of bituminous mixtures by coring	EN 12697-27
Thickness of a bituminous pavement	EN 12697-36
Thickness of a bituminous pavement using Georadar (GPR)	MN DP-GPR 11
Pavement surface macrotexture depth	EN 13036-1
Slip/skid resistance of a surface	EN 13036-4
Irregularity of pavement courses	EN 13036-7
Irregularity measurement of pavement courses according IRI	TN IRI 22
Thickness of pavement structure layers	MN SSN 15
Sampling from structure of pavement	LST 1971
Static plate loading test	LST 1360-5, DIN 18134
Dynamic plate loading test	According to the instructions
The luminance Q_d and retroreflected luminance coefficients R_l	EN 1824, EN 1436
Retroreflected luminance coefficient R_l (mobile Retroreflectometer)	EN 1436
Slip/skid resistance of Road marking	EN 1824, EN 13036-4
Coefficient of retroreflection R_s of fixed, vertical road traffic signs	EN 12899-1, CIE 54.2
Thickness of a hot dip galvanized coatings and paints	EN ISO 1461
Adhesion of tiles bond strenght by pull-off test	According to the instructions



VIAMATIKA

AB „VIAMATIKA“

Granito str. 3, LT-02300, Vilnius

+370 5 2644785

info@viamatika.lt

Company Code: 120721845

VAT Code: LT207218417

Technical Supervision of Construction

+370 5 2644796

Certification Center

+370 5 2644797

Laboratory

+370 5 2644783

www.viamatika.lt

