



Accreditation number **STS 016**
Accreditation standard ISO/IEC 17025:2005

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Testing laboratory for bituminous materials, concrete, membranes, aggregates, soils, rocks and for analysis of samples from environment, waste management and civil engineering and of drinking water

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Laboratories Basel and
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Scope of accreditation in December 2011

Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc.	Determination of iron content according to norm: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung	DIN 38406 E1
	Determination of metals by voltammetry according to norm: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung	DIN 38406 E16
	Determination of aluminium content according to norm: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung	DIN 38406 E9

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<p>Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc.</p>	<p>Determination of DOC / TOC content according to norm: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung</p>	<p>DIN 38409 H3</p>
	<p>Determination of ammonium content</p>	<p>DIN 38414 E5</p>
	<p>Determination of the dry substance according to norm: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung</p>	<p>DIN 38414 S2</p>
	<p>Determination of ignition loss (ignition residue) according to norm: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung</p>	<p>DIN 38414 S2</p>
	<p>Determination of the drying residue (lost on drying) according to norm: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung</p>	<p>DIN 38414 S2</p>
	<p>Shore A and Shore D hardness test</p>	<p>DIN 53505</p>
	<p>Determination of the chloride content by contamination after a fire (soots)</p>	<p>In-house procedure</p>
<p>Determination of various inorganic parameters</p>	<p>In-house procedure</p>	

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Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc.	Microscopic examination (one component or phenomena of construction material)	In-house procedure
	Microscopic examination (textural analysis on thin section)	In-house procedure
	Temperature measurement	In-house procedure
	Determination of phosphates content	EN 1189
	Determination of Cr VI	Metrohm Appl. 116
	Determination of nitrites content	Metrohm Appl. 127/2
	Determination of sulfides and sulfites content	Metrohm Appl. 199/3
	Determination of the total water hardness (Ca and Mg)	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A
	Determination of the solubility	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A
	Determination of the oxidation capacity (consumption of KMnO ₄)	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A
Determination of the turbidity	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A	
Determination of the dissolved oxygen content	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A	

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Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc.	Determination of the phenol index	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A
	Determination of pH	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A
	Determination of the acid consumption (carbonate hardness)	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A
	Measurement of the electric conductivity	Schweizerisches Lebensmittelbuch SLMB, Kap. 27A
	Determination of enterococques (drinking and bath-water)	Schweizerisches Lebensmittelbuch SLMB, Kap. 56
	Quantitative determination of aerobic mesophile germs (drinking and bath-water)	Schweizerisches Lebensmittelbuch SLMB, Kap. 56
	Quantitative determination of Escherichia coli (drinking and bath-water)	Schweizerisches Lebensmittelbuch SLMB, Kap. 56
	Determination of density (pycnometer, weighing under water - soils)	SN 670 335, modified procedure
Determination of the settleable substance according to norm: Sampling, separation and preparation of the test samples according to norm: Mixing Water for Concrete	SN EN 1008 bzw. SIA 162.157	

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(Hardened) concrete	Determination of humic acid content according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1 , modified procedure
	Determination of dissolved anions by liquid chromatography of ions. Determination of fluoride, chloride, bromide, nitrate and sulfate ions. Method for water with low contamination	SN EN ISO 10304-1
	Determination of ammonium nitrogen - urea content in water	SN EN ISO 11732
	Determination of hydrocarbon oil index (C10 - C40)	SN EN ISO 9377-2 resp. DIN EN 14039 resp. ISO 16703
	Leaching test	Swiss ordinance relative to treatment of wastes (SR 814.600)
	Determination of the water content of building materials	ZTV-SIB 90 - Zusätzliche technische Vertragsbedingungen und Richtlinien für Schutz und Instandsetzung von Betonbauteilen. Verkehrsblatt-Verlag 1990, modified procedure
	Determination of the Freeze resistance	Cementbulletin 10/86 "Prüfung von Festbeton auf Frost- und Frost-Tausalz-Beständigkeit", known as "TFB method", modified procedure
Determination of the depth of penetration of water	DIN 1048 Teil 1	

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(Hardened) concrete	Detailed microscopic analysis of microstructure and determination of causes of damages	In-house procedure
	Determination of the resistance to chlorides penetration	In-house procedure
	Determination of phosphorus content	In-house procedure
	Determination of the sulfate content	In-house procedure
	Detailed macroscopic analysis of drilled cores	In-house procedure
	Fast pore analysis	EMPA Richtlinie 1989
	Determination of Compressive Strength of Concrete Cubes	SIA 162/1, test nr. 01, abrogated norm
	Determination of Compressive Strength of Concrete Cores	SIA 162/1, test nr. 02, abrogated norm
	Determination of modulus of elasticity	SIA 162/1, test nr. 03, abrogated norm
	Determination of shrinkage	SIA 162/1, test nr. 04, abrogated norm
	Determination of water infiltration rate	SIA 162/1, test nr. 05, abrogated norm
Determination of the porosity	SIA 162/1, test nr. 07, abrogated norm	

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(Hardened) concrete	Determination of the Freeze-Thaw Cycling resistance FT N50	SIA 162/1, test nr. 08, abrogated norm, modified procedure (according to Baudepartment des Kantons Solothurn, BNS)
	Determination of the Freeze-thaw resistance	SIA 162/1, test nr. 09, abrogated norm
	Determination of Metallic Fiber Content (metallic fibre reinforced concrete)	SIA 162/6 resp. SN 562 162/6
	Plate flexural test (metallic fibre reinforced concrete)	SIA 162/6 resp. SN 562 162/6
	Determination of water infiltration rate	SIA 262/1 appendix A resp. SN 505 262/1
	Determination of the Freeze-thaw resistance	SIA 262/1 appendix C resp. SN 505 262/1
	Determination of the resistance to sulfates of core test specimens, fast test	SIA 262/1 appendix D resp. SN 505 262/1
	Determination of (creep) and shrinkage	SIA 262/1 appendix F resp. SN 505 262/1
	Determination of the Elastic Moduli	SIA 262/1 appendix G resp. SN 505 262/1
	Determination of density (pycnometer, weighing under water)	SN 670 335, modified procedure
Determination of Compressive Strength of test specimens	SN EN 12390-3 resp. SIA 162.253	

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(Hardened) concrete	<p>Determination of Textural strength of test specimens</p> <p>Determination of Tensile splitting strength of test specimens</p> <p>Determination of the depth of penetration of water under pressure</p> <p>Determination of carbonation depth in hardened concrete by the phenolphthalein method - Products and systems for the protection and repair of concrete structures</p> <p>Determination of water absorption coefficient by partial immersion (ISO 15148:2002) according to norm: Hygrothermal performance of building materials and products</p>	<p>SN EN 12390-5 resp. SIA 162.255</p> <p>SN EN 12390-6 resp. SIA 162.256</p> <p>SN EN 12390-8 resp. SIA 162.258</p> <p>SN EN 14630 resp. SIA 262.495</p> <p>SN EN ISO 15148</p>
Fresh concrete and mortar	<p>Determination of the separation</p> <p>Determination of the density and cement content</p> <p>Determination of the water content and water/cement ratio</p> <p>Determination of consistency</p> <p>Determination of the air content of freshly mixed concrete</p>	<p>In-house procedure</p> <p>SIA 162/1, test nr. 18, abrogated norm</p> <p>SIA 162/1, test nr. 19, abrogated norm</p> <p>SIA 162/1, test nr. 20, abrogated norm</p> <p>SIA 162/1, test nr. 21, abrogated norm</p>

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Fresh concrete and mortar	<p>Determination of Metallic Fiber Content (metallic fibre reinforced concrete)</p> <p>Determination of the water content of freshly mixed concrete</p> <p>Sampling fresh concrete</p> <p>Slump test</p> <p>Determination of degree of compactability</p> <p>Flow table test</p> <p>Determination of air content; Pressure methods</p>	<p>SIA 162/6 resp. SN 562 162/6</p> <p>SIA 262/1 appendix H resp. SN 505 262/1</p> <p>SN EN 12350-1 resp. SIA 162.231</p> <p>SN EN 12350-2 resp. SIA 162.232</p> <p>SN EN 12350-4 resp. SIA 162.234</p> <p>SN EN 12350-5 resp. SIA 162.235</p> <p>SN EN 12350-7 resp. SIA 162.237</p>
Concrete structures and elements	<p>Determination of the aggressivity of water on the concrete according to norm: Sampling and analysis of water and concrete to determine the aggressivity against concrete of waters, soils and gases</p> <p>Control of the re-alkalisation according to norm: Electrochemical re-alkalisation and chloride extraction treatments for reinforced concrete - Re-alkalisation</p>	<p>DIN 4030-2, modified procedure</p> <p>prCEN/TS 14038-1, modified procedure</p>

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Concrete structures and elements	<p>Taking, examining and testing in compression cored specimens of concrete in structures</p> <p>Determination of chloride content in hardened concrete - Products and systems for the protection and repair of concrete structures</p> <p>Determination of carbonation depth in hardened concrete by the phenolphthalein method - Products and systems for the protection and repair of concrete structures</p>	<p>SN EN 12504-1 resp. SIA 162.213</p> <p>SN EN 14629 resp. SIA 262.496</p> <p>SN EN 14630 resp. SIA 262.495</p>
Concrete and mortar: in situ tests	<p>Determination of the water absorption with Karsten tubes</p> <p>Schmidt Hammer test</p> <p>Determination of rebound number (Schmidt Hammer) of concrete in structures - Non-destructive testing</p> <p>Determination of carbonation depth in hardened concrete by the phenolphthalein method - Products and systems for the protection and repair of concrete structures</p>	<p>DAfStb-Richtlinie, Teil3, Deutscher Ausschuss für Stahlbeton (DAfStb)</p> <p>DIN 1048</p> <p>SN EN 12504-2 resp. SIA 162.214</p> <p>SN EN 14630 resp. SIA 262.495</p>

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Concrete and mortar: in situ tests	<p>Measurement of bond strength by pull-off</p> <p>Determination of roughness by sand method according to norm: Products and systems for the protection and repair of concrete structures. Test methods. Reference concretes for testing</p>	<p>SN EN 1542 resp. SIA 162.421 resp. ZTV-SIB 90 - Zusätzliche technische Vertragsbedingungen und Richtlinien für Schutz und Instandsetzung von Betonbauteilen. Verkehrsblatt-Verlag 1990</p> <p>SN EN 1766 resp. SIA 162.424 resp. ZTV-SIB 90 - Zusätzliche technische Vertragsbedingungen und Richtlinien für Schutz und Instandsetzung von Betonbauteilen. Verkehrsblatt-Verlag 1990</p>
Protection and coating systems, coating materials, paints, impregnations, hydrophobics	<p>Measurement of paints and related coatings thickness on wedge cut</p> <p>Shore A and Shore D hardness test</p> <p>Determination of the water absorption coefficient</p> <p>Determination of the hydrophobics content (FTIR - Fourier Transform Infrared Spectroscopy)</p>	<p>DIN 50986</p> <p>DIN 53505</p> <p>In-house procedure</p> <p>In-house procedure</p>

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<p>(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.</p>	<p>Determination of the pureness of aggregates, decantation test</p>	<p>SIA 162/1, test nr. 12, abrogated norm</p>
	<p>Mineralogy and qualitative and quantitative petrography of aggregates</p>	<p>SN 670 115</p>
	<p>Determination of the amount of tender components according to norm: Quality requirements of aggregates for foundation layers</p>	<p>SN 670 120, abrogated norm</p>
	<p>Petrographic examination according to norm: quality requirements of aggregates for foundation layers</p>	<p>SN 670 120, abrogated norm</p>
	<p>Determination of the grain shape according to norm: quality requirements for sand, gravel, coarse aggregates and crushed for coverings</p>	<p>SN 670 130, abrogated norm</p>
	<p>Determination of the grain shape and sphericity according to norm: quality requirements for sand, gravel, coarse aggregates and crushed for coverings</p>	<p>SN 670 130, abrogated norm</p>
	<p>Sedimentation analysis according to Andreasen/EMPA (mineral aggregates)</p>	<p>SN 670 818, abrogated norm</p>
	<p>Los Angeles test (mineral aggregates)</p>	<p>SN 670 835, abrogated norm</p>

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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Determination of the void content according to Rigden for fillers for bituminous binders	SN 670 840
	Determination of the volume change of test specimens by water immersion (filler for bituminous binders)	SN 670 845
	Determination of resistance of aggregates to fragmentation	SN EN 1097-2 resp. SN 670 903-2
	Determination of loose bulk density and voids of aggregates	SN EN 1097-3 resp. SN 670 903-3
	Determination of particle density and water absorption of aggregates	SN EN 1097-6 resp. SN 670 903-6
	Determination of the particle density of filler; pycnometer method (weighing under water)	SN EN 1097-7 resp. SN 670 903-7
	Determination of the stiffening effect of filler according to norm: Test for filler aggregate used in bituminous mixtures. Delta ring and ball test	SN EN 13179-1 resp. SN 670 906-1
	Determination of resistance of aggregates to freezing and thawing	SN EN 1367-1 resp. SN 670 904-1
Determination of acide soluble sulfates according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1	

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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Determination of humus content according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1
	Determination of lightweight contaminants according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1
	Determination of water susceptibility of fillers for bituminous mixtures	SN EN 1744-4 resp. SN 670 905-4
	Methods for sampling aggregates	SN EN 932-1 resp. SN 670 901-1
	Methods for reducing laboratory samples of aggregates	SN EN 932-2 resp. SN 670 901-2
	Determination of particle size distribution of aggregates - Sieving Method	SN EN 933-1 resp. SN 670 902-1
	Determination of particle size distribution of aggregates - Sieving Method with water of aggregates mixtures	SN EN 933-1 resp. SN 670 902-1, modified procedure
Determination of particle size distribution of aggregates - Sieving Method of aggregates mixtures	SN EN 933-1 resp. SN 670 902-1, modified procedure	

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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	<p>Determination of particle size distribution of aggregates - Sieving Method after washing (fresh concrete)</p> <p>Determination of particle size distribution of aggregates - Sieving Method after washing with solvent</p> <p>Determination of Particle Shape of aggregates - Flakiness Index</p> <p>Determination of percentage of crushed and broken surfaces in coarse aggregate particles</p> <p>Determination of flow coefficient of aggregates</p>	<p>SN EN 933-1 resp. SN 670 902-1, modified procedure</p> <p>SN EN 933-1 resp. SN 670 902-1, modified procedure</p> <p>SN EN 933-3 resp. SN 670 902-3</p> <p>SN EN 933-5 resp. SN 670 902-5</p> <p>SN EN 933-6 resp. SN 670 902-6</p>
Soft rocks, soils, ground	<p>Determination of the water content of soils</p> <p>Determination of the compressive strength and density for stabilisation with hydraulic binders</p> <p>Qualification test for stabilisation with hydraulic binders</p> <p>Test of swelling due to freeze and CBR test of soils after thaw (CBRF)</p> <p>Determination of density of soils (pycnometer, weighing under immersion)</p>	<p>EN 17892-1 resp. SN 670 340-1</p> <p>SN 640 509</p> <p>SN 640 509</p> <p>SN 670 321</p> <p>SN 670 335</p>

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Soft rocks, soils, ground	Determination of the water content (soils)	SN 670 340
	Determination of the consistency limits (liquid limit and plastic limit of soils, 3 point method)	SN 670 345
	Determination of organic matter in soils	SN 670 370
	Sampling of mineral aggregates	SN 670 800, abrogated norm
	Sedimentation analysis, areometer method (mineral aggregates)	SN 670 816
	Test methods for the determination of the laboratory reference density and water content (unbound and hydraulically bound mixtures). Proctor compaction	SN EN 13286-2 resp. SN 670 330-2 modified procedure
	Test method for the determination of California Bearing ratio, immediate bearing index and linear swelling	SN EN 13286-47 resp. SN 670 330-47
	Determination of particle size distribution of aggregates - Sieving Method	SN EN 933-1 resp. SN 670 902-1, modified procedure
Geotechnical investigation and testing - Identification and classification of soil - Part 2: Principles for a classification	SN EN ISO 14688-2 resp. SN 670 004-2	

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Soils, underground and rocks: in situ tests	Standard Test Method for Density (degree of compaction) and water content determination by Nuclear Methods EV and ME-plate bearing test (soils) Determination of the specific weight (sand replacement method) Determination of the water content (soils) Determination of the water content (Calcium Carbide method)	ASTM D2950, modified procedure SN 670 317 SN 670 335, abrogated norm SN 670 340, modified procedure SN 670 340, modified procedure
Rocks, natural stones	Determination of modulus of elasticity Determination of the Uniaxial Compressive Strength of Rock Core Specimens Determination of the indirect tensile Strength of Rock Core Specimens (Brazilian test, tensile splitting strength) Point Load Test - strength (PLT) Determination of frost resistance	SIA 162/1, test nr. 03, abrogated norm, modified procedure SN 670 353 SN 670 354 SN 670 355 SN EN 12371 resp. SIA 246.205

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Rocks, natural stones	<p>Determination of the dynamic elastic modulus of elasticity (by measuring the fundamental resonance frequency)</p> <p>Determination of real density and apparent density, and of total and open porosity</p>	<p>SN EN 14146 resp. SIA 246.213</p> <p>SN EN 1936 resp. SIA 246.203</p>
Recycling materials	<p>IMP column test for the evaluation of recycling materials</p> <p>Recycling materials analysis (mineral building wastes)</p>	<p>In-house procedure</p> <p>Richtlinie für die Verwertung mineralischer Bauabfälle. 2. aktualisierte Auflage. 2006, BAFU, Abt. Abfall und Rohstoffe bzw. ARV-Gütesicherung für Recyclingbaustoffe</p>
Bituminous binders	<p>Determination of the tar content</p> <p>Determination of adhesion of bituminous binders on aggregates (mix asphalt)</p> <p>Determination of ash</p> <p>Test method for Bitumen recovery: Rotary evaporator</p> <p>Index of penetration (calculation) according to norm: Specifications for paving grade bitumens</p> <p>Determination of Fraass breaking point</p>	<p>In-house procedure</p> <p>SN 670 460</p> <p>SN 671 719, abrogated norm</p> <p>SN 671 860, abrogated norm</p> <p>SN EN 12591 resp. SN 670 150-1</p> <p>SN EN 12593 resp. ENV 670 507</p>

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Bituminous binders	Determination of the resistance to hardening under the influence of heat and air. Part 3: RFT Method	SN EN 12607-3 resp. SN 670 518
	Binder drainage	SN EN 12697-18 resp. SN 670 418
	Bitumen recovery: Rotary evaporator	SN EN 12697-3 resp. SN 670 403
	Determination of the elastic recovery of modified bitumen	SN EN 13398 resp. SN 670 547
	Determination of storage stability of modified bitumen	SN EN 13399 resp. SN 670 550
	Determination of the tensile properties of modified bitumen by the force ductility method	SN EN 13589 resp. SN 670 548 a
	Characterization of perceptible properties	SN EN 1425 resp. SN 670 503
	Determination of needle penetration	SN EN 1426 resp. ENV 670 511
	Determination of softening point Ring and Ball method	SN EN 1427 resp. ENV 670 512
	Test of accelerated long-term ageing - Pressure Ageing Vessel (PAV)	SN EN 14769 resp. SN 670 558
Determination of the flexural creep stiffness - Bending Beam Rheometer (BBR) of bitumen and bituminous binders	SN EN 14771 resp. SN 670 560	

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Bituminous binders	Measurement of density and specific gravity. Capillary-stoppered pycnometer method	SN EN 15326 resp. ENV 670 505
Bituminous mixtures	<p>Sampling bituminous binders</p> <p>Standard method for preparing and determining the density of Hot Mix Asphalt (HMA) specimens by means of the superpave gyratory compactor</p> <p>Determination of the percentage of communicating voids of bound materials (bituminous mixtures)</p> <p>Dynamic indentation test with stamp with a plane section (ETdyn) according to appendix of SN 640 441-NA: Bituminous mixtures - Mastic asphalt, specifications</p> <p>Determination of the void content and degree of compaction according to norm: Design, execution, requirements for the layers in place of compacted bituminous mixtures</p> <p>Determination of layers adhesion (Leutner)</p> <p>Determination of stamp penetration (indentation - plane section), static test</p>	<p>SN EN 58 resp. SN 670 501</p> <p>AASHTO TP4, abrogated norm resp. SHRP</p> <p>NF P98-254-2</p> <p>prEN 13108-6 resp. SN 640 441-NA national appendix A</p> <p>SN 640 430</p> <p>SN 670 461</p> <p>SN 671 970, abrogated norm</p>

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Bituminous mixtures	Soluble binder content determination of mix asphalt (hot)	SN EN 12697-1 resp. SN 670 401
	Indentation using cube or Marshall specimens	SN EN 12697-20 resp. SN 670 420
	Determination of the indirect tensile strength of bituminous specimens	SN EN 12697-23 resp. SN 670 423
	Cyclic compression test	SN EN 12697-25 resp. SN 670 425
	Sampling bituminous mixtures	SN EN 12697-27 resp. SN 670 427
	Specimen preparation by impact compactor	SN EN 12697-30 resp. SN 670 430
	Marshall test	SN EN 12697-34 resp. SN 670 434
	Method for the determination of the thickness of a bituminous pavement	SN EN 12697-36 resp. SN 670 436
	Determination of bulk density of bituminous specimens	SN EN 12697-6 resp. SN 670 406
	Determination of void characteristics of bituminous specimens	SN EN 12697-8 resp. SN 670 408
Uniaxial compressive / swelling test	Technische Prüfvorschriften für Asphalt im Strassenbau (TP A - StB)	

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Hot applied joint sealants, asphalt plug joints	Determination of the pouring temperature (hot applied joint sealants)	SN 670 621
	Ball dropping test (hot applied joint sealants)	SN 670 622
	Determination of appearance and composition (primers for hot applied joint sealants)	SN 670 671
	Determination of resistance against alkali (primers for hot applied joint sealants)	SN 670 672
	Determination of drying behaviour and solids content (primers for hot applied joint sealants)	SN 670 673
	Soluble binder content determination of mix asphalt (hot) - Determination of residual mineral matter in the binder extract by incineration	SN EN 12697-1 annex C resp. SN 670 401
	Determination of density at 25 °C (hot applied joint sealants)	SN EN 13880-1 resp. SN 670 631
	Determination of cone penetration at 25 °C (hot applied joint sealants)	SN EN 13880-2 resp. SN 670 632
Determination of penetration and recovery (resilience - hot applied joint sealants)	SN EN 13880-3 resp. SN 670 633	

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Hot applied joint sealants, asphalt plug joints	Determination of heat resistance; Change in penetration value (hot applied joint sealants)	SN EN 13880-4 resp. SN 670 634
	Determination of flow resistance (hot applied joint sealants)	SN EN 13880-5 resp. SN 670 635
	Method for the preparation of samples for testing: Determination of appearance and composition (hot applied joint sealants)	SN EN 13880-6 resp. SN 670 636
	Determination of softening point Ring and Ball method	SN EN 1427 resp. ENV 670 512
	Determination of flow time by use of flow cups (Paints and varnishes)	SN EN ISO 2431
Membranes	Test Method for Contact Compatibility Between Asphaltic Materials (Oliensis Test)	ASTM D1370
	Determination of dimensional stability - Part 1: Bitumen sheets for roof waterproofing	SN EN 1107-1 resp. SIA 281.302
	Determination of flexibility at low temperature of flexible sheets for waterproofing	SN EN 1109 resp. SIA 281.304
	Determination of flow resistance at elevated temperature	SN EN 1110 resp. SIA 281.303
	Determination of tensile properties of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing	SN EN 12311-1 resp. SIA 281.301

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Membranes	<p>Determination of resistance to impact of flexible sheets for waterproofing</p> <p>Method for artificial ageing by long term exposure to elevated temperature of flexible sheets for waterproofing</p> <p>Determination of the behaviour of (polymer) bitumen sheets during application of mastic asphalt</p> <p>Determination of length, width and straightness of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing</p> <p>Determination of thickness and mass per unit area of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing</p> <p>Determination of visible defects of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing</p>	<p>SN EN 12691 resp. SIA 289.303</p> <p>SN EN 1296 resp. SIA 289.306</p> <p>SN EN 14693 resp. SIA 281.326</p> <p>SN EN 1848-1 resp. SIA 281.319</p> <p>SN EN 1849-1 resp. SIA 281.318</p> <p>SN EN 1850-1 resp. SIA 281.320</p>
Road construction and waterproofing: in situ tests	<p>Standard Test Method for Density (degree of compaction) of Bituminous Concrete (pavements) in Place by Nuclear Methods</p> <p>Measurement of the DOR-density</p>	<p>ASTM D2950, modified procedure</p> <p>In-house procedure</p>

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Road construction and waterproofing: in situ tests	Peeling test (bituminous membranes)	SIA 281/2 resp. SN 564 281/4
	Determination of pull-off bond strength of bituminous membranes	SIA 281/3 resp. SN 573 281/3
	Determination with permeameter according to norm: design, requirements, execution of porous asphalt layer	SN 640 433
	Test method of the non-skid quality of pavements surfaces: Determination with drainometer	SN 640 510
	Test method of the non-skid quality of pavements surfaces: SRT pendulum	SN 640 510
	Control of the geometry - Flatness	SN 640 520
	Benkelman beam deflexion test; instrument, operating instructions and results analysis	SN 670 362
	Road marking materials. Road marking performance for road users	SN EN 1436 : 2003

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