



## STS Directory

**Accreditation number: STS 0030**

International standard: ISO/IEC 17025:2005  
Swiss standard: SN EN ISO/IEC 17025:2005

BSL Baustofflabor AG  
Postgässli 23a  
3661 Uetendorf

Head: Felix Solcà  
Responsible for MS: Dr. Benjamin Kaeser  
Telephone: +41 33 346 45 55  
E-Mail: <mailto:info@baustofflabor.ch>  
Internet: <http://www.baustofflabor.ch>  
Initial accreditation: 08.09.1993  
Current accreditation: 08.09.2018 to 07.09.2023  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 08.09.2018

#### Testing laboratory for bituminous binders, concrete, cement, mineral aggregates, soils and in situ tests

Group of products or materials, field of activity	Principle of measurement <sup>2)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
(Hardened) concrete	Determination of Metallic Fiber Content (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 resistance to chlorides	SIA 262/1 appendix B 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	SIA 262/1 appendix D resp. SN 505 262/1
	Determination of shrinkage	SIA 262/1 appendix F resp. SN 505 262/1



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(Hardened) concrete	Determination of resistance to carbonation	SIA 262/1 appendix I resp. SN 505 262/1
	Determination of air void characteristics	SIA 262/1 appendix K resp. SN 505 262/1
	Determination of secant modulus of elasticity in compression	SN EN 12390-13 bzw. SIA 262.263
	Making and curing specimens for strength tests	SN EN 12390-2 resp. SIA 262.252
	Compressive Strength of test specimens	SN EN 12390-3 resp. SIA 262.253
	Determination of flexural strength of test specimens	SN EN 12390-5 resp. SIA 262.255
	Determination of Density of hardened concrete	SN EN 12390-7 resp. SIA 262.257
	Determination of the depth of penetration of water under pressure	SN EN 12390-8 resp. SIA 262.258
	Testing sprayed concrete - Part 4: Bond strength of cores by direct tension	SN EN 14488-4 resp. SIA 262.604
	Determination of chloride content in hardened concrete - Products and systems for the protection and repair of concrete structures	SN EN 14629 resp. SIA 262.496
	Determination of carbonation depth in hardened concrete by the phenolphthalein method - Products and systems for the protection and repair of concrete structures	SN EN 14630 resp. SIA 262.495
Measurement of bond strength by pull-off (Products and systems for the protection and repair of concrete structures)	SN EN 1542 resp. SIA 162.421	
Cement	Determination of Strength (flexural and compressive strength)	SN EN 196-1 resp. SIA 215.011
Fresh concrete and mortar	Determination of the density and cement content	SIA 162/1, test nr. 18, repealed standard
	Determination of Metallic Fiber Content (metallic fibre reinforced concrete)	SIA 162/6 resp. SN 562 162/6



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Fresh concrete and mortar	Determination of the water content of freshly mixed concrete	SIA 262/1 appendix H resp. SN 505 262/1
	Sampling fresh concrete	SN EN 12350-1 resp. SIA 262.231
	Slump test	SN EN 12350-2 resp. SIA 262.232
	Determination of degree of compactability	SN EN 12350-4 resp. SIA 262.234
	Flow table test	SN EN 12350-5 resp. SIA 262.235
	Determination of Density	SN EN 12350-6 resp. SIA 262.236
	Determination of air content; Pressure methods	SN EN 12350-7 resp. SIA 262.237
	Slump-flow test (Self- compacting concrete)	SN EN 12350-8 resp. SIA 262.238
Concrete structures and elements	Dowel tensile test with HILTI DPG (Dübelprüfgerät) 100	In-house procedure
	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213
	Determination of chloride content in hardened concrete - Products and systems for the protection and repair of concrete structures	SN EN 14629 resp. SIA 262.496
	Determination of carbonation depth in hardened concrete by the phenolphthalein method - Products and systems for the protection and repair of concrete structures	SN EN 14630 resp. SIA 262.495
Concrete and mortar: in situ tests	Measurement of the concrete cover according to norm: preservation of concrete structures	SIA 269/2 resp. SN 505 269/2
	Execution and interpretation of potential measurement on reinforced concrete	SIA guideline 2006



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<p>Concrete and mortar: in situ tests</p> <p>(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.</p>	<p>Determination of rebound number of concrete in structures - Non-destructive testing (control of the Schmidt Hammer incl.)</p> <p>Methods of test for screed materials - Part 8: Determination of bond strength</p> <p>Measurement of bond strength by pull-off</p> <p>Determination of organic matter (in soils)</p> <p>Sedimentation analysis, areometer method (mineral aggregates)</p> <p>Determination of resistance of aggregates to fragmentation</p> <p>Determination of loose bulk density and voids of aggregates</p> <p>Determination of the voids of dry compacted filler</p> <p>Determination of the water content of aggregates by drying in a ventilated oven</p> <p>Determination of particle density and water absorption of aggregates</p> <p>Determination of the particle density of filler; pycnometer method</p> <p>Qualification test according to norm: Aggregates for concrete</p> <p>Qualification test according to norm: Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas</p> <p>Determination of the stiffening effect of filler according to norm: Test for filler aggregate used in bituminous mixtures. Delta ring and ball test</p>	<p>SN EN 12504-2 resp. SIA 262.214, modified procedure - "guideline Schmidt"</p> <p>SN EN 13892-8 resp. SIA 252.010</p> <p>SN EN 1542 resp. SIA 162.421</p> <p>SN 670 370, modified procedure</p> <p>SN 670 816, repealed standard</p> <p>SN EN 1097-2 resp. SN 670 903-2</p> <p>SN EN 1097-3 resp. SN 670 903-3</p> <p>SN EN 1097-4 resp. SN 670 903-4</p> <p>SN EN 1097-5 resp. SN 670 903-5</p> <p>SN EN 1097-6 resp. SN 670 903-6</p> <p>SN EN 1097-7 resp. SN 670 903-7</p> <p>SN EN 12620 resp. SN 670 102</p> <p>SN EN 13043 resp. SN 670 103</p> <p>SN EN 13179-1 resp. SN 670 906-1</p>



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Qualification test according to norm: Aggregates for railway ballast	SN EN 13450 resp. SN 670 110
	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
	Determination of water soluble chloride salts according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1
	Determination of total sulfur 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
	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
	Tests for geometrical properties of aggregates - Classification test for the constituents of coarse recycled aggregate	SN EN 933-11 resp. SN 670 902-11
Determination of Particle Shape of aggregates - Flakiness Index	SN EN 933-3 resp. SN 670 902-3	



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Determination of particle shape of aggregates; shape index	SN EN 933-4 resp. SN 670 902-4
Soft rocks, soils, ground	Determination of percentage of crushed and broken surfaces in coarse aggregate particles	SN EN 933-5 resp. SN 670 902-5
	Determination of flow coefficient of aggregates	SN EN 933-6 resp. SN 670 902-6
	Test of swelling due to freeze and CBR test of soils after thaw (CBRF)	SN 670 321
	Determination of density of soils (pycnometer, weighing under immersion)	SN 670 335
	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
	Sieve analysis of mineral aggregates and soft rocks	SN 670 810, repealed standard
	Sedimentation analysis, areometer method (mineral aggregates)	SN 670 816, repealed standard
	Determination of the water content by drying in a ventilated oven	SN EN 1097-5 resp. SN 670 903-5, modified procedure
	Qualification tests according to norms: Unbound mixtures. Specifications resp. Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction	SN EN 13285 resp. SN EN 13242 resp. SN 670 119-NA
	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
	Test method for the determination of California Bearing ratio, immediate bearing index and linear swelling	SN EN 13286-47 resp. SN 670 330-47



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Soft rocks, soils, ground	Determination of the binders content according to norm: hydraulically bound mixtures - Specifications - Part 5: Hydraulic road binder bound mixtures	SN EN 14227-5 resp. SN 640 496
	Determination of the compressive strength according to norm: hydraulically bound mixtures - Specifications - Part 5: Hydraulic road binder bound mixtures	SN EN 14227-5 resp. SN 640 496
	Determination of the dry density according to norm: hydraulically bound mixtures - Specifications - Part 5: Hydraulic road binder bound mixtures	SN EN 14227-5 resp. SN 640 496
	Geotechnical investigation and testing - Identification and classification of soil - Part 2: Principles for a classification	SN EN ISO 14688-2 resp. SN 670 004-2B-NA
Soils, underground and rocks: in situ tests	Control of requirements for compaction - Execution of earthwork	SN 640 585
	EV and ME-plate bearing test (soils)	SN 670 317
	Determination of density of soil (nucleometer)	SN 670 335
	Methods for sampling aggregates	SN EN 932-1 resp. SN 670 901-1
Bituminous binders	Index of penetration (calculation) according to norm: Specifications for paving grade bitumens	SN EN 12591 resp. SN 670 202-NA
	Preparation of test samples	SN EN 12594 resp. SN 670 504
	Determination of the affinity between aggregate and bitumen	SN EN 12697-11 resp. SN 670 411
	Bitumen recovery: Rotary evaporator (toluol)	SN EN 12697-3 resp. SN 670 403-NA
	Bitumen recovery: Rotary evaporator (trichloroethylene)	SN EN 12697-3 resp. SN 670 403-NA, SN modified procedure
	Determination of settling tendency of bituminous emulsions	SN EN 12847 resp. SN 670 592



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Bituminous binders	Determination of the pH value of bituminous emulsions	SN EN 12850 resp. SN 670 593
	Recovery of binder from bituminous emulsion or cut-back or fluxed bituminous binders - Part 1: Recovery by evaporation	SN EN 13074-1 resp. SN 670 598
	Determination of breaking behaviour - Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method	SN EN 13075-1 resp. SN 670 586-1
	Determination of the elastic recovery of modified bitumen	SN EN 13398 resp. SN 670 547
	Characterization of perceptible properties	SN EN 1425 resp. SN 670 503
	Determination of needle penetration	SN EN 1426 resp. SN 670 511
	Determination of softening point Ring and Ball method	SN EN 1427 resp. SN 670 512
	Determination of water content in bitumen emulsions - Azeotropic distillation method	SN EN 1428 resp. SN 670 585
	Determination of residue on sieving of bituminous emulsions, and determination of storage stability by sieving	SN EN 1429 resp. SN 670 580
	Measurement of density and specific gravity. Capillary-stoppered pycnometer method	SN EN 15326 resp. SN 670 505
Sampling bituminous binders	SN EN 58 resp. SN 670 501	
Bituminous mixtures	Qualification test according to norm: design, requirements, execution of Asphalt Concrete Pavements	SN 640 431
	Determination of layers adhesion (Leutner)	SN 670 461
	Soluble binder content determination of mix asphalt	SN EN 12697-1 resp. SN 670 401





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Bituminous mixtures	Determination of the water sensitivity of bituminous specimens	SN EN 12697-12 resp. SN 670 412
	Determination of particle size distribution of hot mix asphalt	SN EN 12697-2 resp. SN 670 402
	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
	Sampling bituminous mixtures	SN EN 12697-27 resp. SN 670 427
	Preparation of samples for determining binder content, water content and grading	SN EN 12697-28 resp. SN 670 428
	Determination of the dimensions of bituminous specimen	SN EN 12697-29 resp. SN 670 429
	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 the maximum density of hot mix asphalt	SN EN 12697-5 resp. SN 670 405
	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
Type Testing: Bituminous mixtures - Material specifications	SN EN 13108-20 resp. SN 640 431-20NA national appendix	
Road construction and waterproofing: in situ tests	Standard Test Method for Density (degree of compaction) of Bituminous Concrete (pavements) in Place by Nuclear Methods	ASTM D2950, modified procedure
	Peeling test	SIA 281/2 resp. SN 564 281/2



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Road construction and waterproofing: in situ tests	Determination of pull-off bond strength of bituminous membranes  Control of the geometry - Flatness  Benkelman beam deflexion test; instrument, operating instructions and results analysis	SIA 281/3 resp. SN 573 281/3  SN 640 520  SN 670 362

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1) Scope of accreditation type A (fix)  
 2) Scope of accreditation type B (flexible)  
 3) Scope of accreditation type C (flexible)

Definition of flexibility see SAS Document 741