



STS Directory

Accreditation number: STS 0030

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 08.09.1993
Current accreditation: 08.09.2018 to 07.09.2023
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 25.02.2022

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 2) (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
(Hardened) concrete	Determination of the Freeze Cycling	SIA 162/1, test nr. 8, repealed standard
	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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	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 resp. 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 Tensile splitting strength of test specimens	SN EN 12390-6 resp. SIA 262.256
	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 water content of freshly mixed concrete	SIA 262/1 appendix H resp. SN 505 262/1



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Concrete structures and elements	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
	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
	Determination of rebound number of concrete in structures - Non-destructive testing (control of the Schmidt Hammer incl.)	SN EN 12504-2 resp. SIA 262.214, modified procedure - "guideline Schmidt"
	Methods of test for screed materials - Part 8: Determination of bond strength	SN EN 13892-8 resp. SIA 252.010



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Measurement of bond strength by pull-off	SN EN 1542 resp. SIA 162.421
	Mineralogy and qualitative and quantitative petrography of aggregates	SN 670 115
	Determination of organic matter (in soils)	SN 670 370, modified procedure
	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 the voids of dry compacted filler	SN EN 1097-4 resp. SN 670 903-4
	Determination of the water content of aggregates by drying in a ventilated oven	SN EN 1097-5 resp. SN 670 903-5
	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	SN EN 1097-7 resp. SN 670 903-7
	Qualification test according to norm: Aggregates for concrete	SN EN 12620 resp. SN 670 102
	Qualification test according to norm: Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas	SN EN 13043 resp. SN 670 103
	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
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	



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	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
	Determination of particle shape of aggregates; shape index	SN EN 933-4 resp. SN 670 902-4
	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



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Soft rocks, soils, ground	Sedimentation analysis, areometer method according to standard: Determination of particle size distribution (soils)	SN EN ISO 17892-4 resp. SN 670 340-4
	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 organic matter in soils	SN 670 370
	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
	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



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Soils, underground and rocks: in situ tests	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
	Permeability tests	SN EN ISO 17892-11
	Determination of liquid and plastic limits	SN EN ISO 17892-12
	Sedimentation analysis, areometer method according to standard: Determination of particle size distribution (soils)	SN EN ISO 17892-4 resp. SN 670 340-4
	Control of requirements for compaction - Execution of earthwork	SN 640 585
	EV and ME-plate bearing test (soils)	SN 670 317
Bituminous binders	Determination of density of soil (nucleometer)	SN 670 335
	Methods for sampling aggregates	SN EN 932-1 resp. SN 670 901-1
	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
	Bitumen recovery: Rotary evaporator (toluol)	SN EN 12697-3
	Bitumen recovery: Rotary evaporator (trichloroethylene)	SN EN 12697-3, SN modified procedure
	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	



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Bituminous mixtures	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
	Sampling bituminous binders	SN EN 58 resp. SN 670 501
	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
	Determination of the water sensitivity of bituminous specimens	SN EN 12697-12
	Determination of particle size distribution of bituminous mixtures	SN EN 12697-2
	Indentation using cube or cylindrical specimens (CY)	SN EN 12697-20
	Determination of the indirect tensile strength of bituminous specimens	SN EN 12697-23
	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
	Determination of the dimensions of a bituminous specimen	SN EN 12697-29
	Specimen preparation by impact compactor	SN EN 12697-30
	Marshall test	SN EN 12697-34
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 bituminous mixtures	SN EN 12697-5	



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Road construction and waterproofing: in situ tests	Determination of bulk density of bituminous specimens	SN EN 12697-6
	Determination of void characteristics of bituminous specimens	SN EN 12697-8
	Type Testing: Bituminous mixtures - Material specifications	SN EN 13108-20 resp. SN 640 431-20NA national appendix
	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
	Determination of pull-off bond strength of bituminous membranes	SIA 281/3 resp. SN 573 281/3
	Control of the geometry - Longitudinal flatness - Surface characteristics of pavements	SN 640 517
	Transversal flatness - Surface characteristics of pavements	SN 640 518
Benkelman beam deflexion test	SN 670 362	

In case of contradictions in the language versions of the directories, the German version shall apply.

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