



## STS Directory

Accreditation number: STS 0329

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

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### Scope of accreditation as of 06.10.2023

#### Testing laboratory for concrete, aggregates, bituminous binders and materials, 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)	Lab
(Hardened) concrete	Determination of the depth of penetration of water	DIN 1048 Teil 1, repealed standard	1, 2
	Determination of the depth of penetration of water	DIN 1048 Teil 1, repealed standard, modified procedure (LMC)	1, 2
	Bending tensile test according to standard: High-Performance Fiber Concrete (HPFC) - Materials, Dimensioning and Execution	SIA 2052 + C1, annex E resp. SNR 592 052 + C1	1
	Determination of water infiltration rate	SIA 262/1 appendix A resp. SN 505 262/1	1
	Determination of the resistance to chlorides	SIA 262/1 appendix B resp. SN 505 262/1	1
	Determination of the freeze-thaw resistance	SIA 262/1 appendix C resp. SN 505 262/1	1



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(Hardened) concrete	Determination of resistance to carbonation	SIA 262/1 appendix I resp. SN 505 262/1	1
	Determination of compressive strength of concrete cubes according to standard: Shape, dimensions and other requirements for specimens and moulds	SN EN 12390-1 resp. SIA 262.251	1, 2
	Determination of secant modulus of elasticity in compression	SN EN 12390-13 resp. SN 262.263	1
	Determination of the shrinkage of concrete	SN EN 12390-16 resp. SIA 262.266	1
	Making and curing specimens for strength tests	SN EN 12390-2 resp. SIA 262.252	1, 2
	Compressive strength of test specimens	SN EN 12390-3 resp. SIA 262.253	1, 2
	Determination of density of hardened concrete	SN EN 12390-7 resp. SIA 262.257	1, 2
	Determination of energy absorption capacity of fiber reinforced slab specimens (Testing sprayed concrete)	SN EN 14488-5 resp. SIA 262.605	1
Fresh concrete and mortar	Determination of the density and cement content	SIA 162/1, test Nr. 18, repealed standard	1, 2
	Determination of the water content of freshly mixed concrete	SIA 262/1 appendix H resp. SN 505 262/1	1, 2
	Sampling fresh concrete	SN EN 12350-1 resp. SIA 262.231	1, 2
	Slump test	SN EN 12350-2 resp. SIA 262.232	1, 2
	Determination of the degree of compactability	SN EN 12350-4 resp. SIA 262.234	1, 2
	Flow table test	SN EN 12350-5 resp. SIA 262.235	1, 2
	Determination of density	SN EN 12350-6 resp. SIA 262.236	1, 2
	Determination of air content; Pressure methods	SN EN 12350-7 resp. SIA 262.237	1, 2
Slump-flow test (Self- compacting concrete)	SN EN 12350-8 resp. SIA 262.238	1, 2	



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213	1, 2
	Measurement of bond strength by pull-off	SN EN 1542 resp. SIA 162.421	1, 2
	Determination of the pureness of aggregates, decantation test	SIA 162/1, test Nr. 12, repealed standard	1, 2
	Sedimentation analysis, areometer method (mineral aggregates)	SN 670 816, repealed standard	1
	Determination of resistance of aggregates to fragmentation	SN EN 1097-2	1, 2
	Determination of loose bulk density and voids of aggregates	SN EN 1097-3 resp. SN 670 903-3	1, 2
	Determination of the water content of aggregates by drying in a ventilated oven	SN EN 1097-5 resp. SN 670 903-5	1, 2
	Determination of particle density and water absorption of aggregates	SN EN 1097-6 resp. SN 670 903-6	1
	Determination of the polished stone value of aggregates (PSV –polished stone value)	SN EN 1097-8	1
	Determination of particle size distribution of aggregates - Sieving Method	SN EN 933-1 resp. SN 670 902-1	1, 2
	Determination of particle shape of aggregates - Flakiness Index	SN EN 933-3 resp. SN 670 902-3	1, 2
	Determination of particle shape of aggregates - Shape index	SN EN 933-4 resp. SN 670 902-4	1, 2
	Determination of percentage of crushed and broken surfaces in coarse aggregate particles	SN EN 933-5 resp. SN 670 902-5	1, 2
	Determination of flow coefficient of aggregates	SN EN 933-6 resp. SN 670 902-6	1, 2
Soft rocks, soils, ground	Test of swelling due to freeze and CBR test of soils after thaw (CBRF)	VSS 70 321	1

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



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Soft rocks, soils, ground	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	1
	Test method for the determination of California Bearing ratio (CBR), immediate bearing index (IBI) and linear swelling	SN EN 13286-47 resp. SN 670 330-47	1
	Permeability tests	SN EN ISO 17892-11	1
Soils, underground and rocks: in situ tests	EV and ME-plate bearing test (soils)	VSS 70 317	1, 2
Bituminous binders	Index of penetration index PI (calculation) according to standard: Specifications for paving grade bitumens	SN EN 12591 resp. SN 670 202-NA	1
	Determination of the Fraass breaking point	SN EN 12593 resp. SN 670 507	1
	Preparation of test samples	SN EN 12594 resp. SN 670 504	1
	Bitumen recovery: Rotary evaporator	SN EN 12697-3	1
	Determination of the elastic recovery of modified bitumen	SN EN 13398 resp. SN 670 547	1
	Determination of the tensile properties of modified bitumen by the force ductility method	SN EN 13589	1
	Determination of needle penetration	SN EN 1426 resp. SN 670 511	1
	Determination of the softening point - Ring and Ball method	SN EN 1427 resp. SN EN 670 512	1
	Bituminous mixtures	Dynamic indentation test with stamp with a plane section (ETdyn) according to appendix of SN 640 441a-NA: Bituminous mixtures - Mastic asphalt, specifications	SN EN 13108-6 (2008) resp. SN 640 441a-NA national appendix G, repealed standards
Determination of soluble binder content of mix asphalt		SN EN 12697-1	1, 2
Determination of the water sensitivity of bituminous specimens		SN EN 12697-12	1



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Bituminous mixtures	Determination of particle size distribution of bituminous mixtures	SN EN 12697-2	1, 2
	Indentation using cube or Marshall specimens	SN EN 12697-20	1
	Wheel tracking	SN EN 12697-22	1
	Determination of the indirect tensile strength of bituminous specimens	SN EN 12697-23	1
	Determination of resistance to fatigue	SN EN 12697-24	1
	Determination of the stiffness	SN EN 12697-26	1
	Sampling bituminous mixtures	SN EN 12697-27 resp. SN 670 427	1, 2
	Specimen preparation by impact compactor	SN EN 12697-30	1, 2
	Specimen prepared by roller compactor	SN EN 12697-33	1
	Marshall test	SN EN 12697-34	1, 2
	Laboratory mixing	SN EN 12697-35 resp. SN 670 435	1
	Determination of the interlayer bonding - Shear Bond Test (SBT)	SN EN 12697-48	1, 2
	Determination of the maximum density of bituminous mixtures	SN EN 12697-5	1
	Determination of bulk density of bituminous specimens	SN EN 12697-6	1, 2
	Determination of void characteristics of bituminous specimens	SN EN 12697-8	1, 2
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	1, 2
	Peeling test (bituminous membranes)	SIA 281/2 resp. SN 564 281/2	1, 2
	Determination of pull-off bond strength of bituminous membranes	SIA 281/3 resp. SN 564 281/3	1, 2



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Road construction and water-proofing: in situ tests	Determining of pavement surface characteristics - Bearing capacity measurement method - Deflection measurements with the Falling Weight Deflectometer FWD/HWD	VSS 40 330 VSS 40 733 B Doc. 9157, Aerodrome design Manual, International Civil Aviation Organization ICAO, Part 3 - Pavements, third edition 2022, Chapter 3.3.5 Assessment method	1
	Determining the skid resistance of a pavement surface using a device for Longitudinal Force Coefficient Grip (LFCG) - Griptester	SNR CEN/TS 15901-7 resp. SNR 640 513-7 VSS 40 512 Doc 9137, Airport Services Manual, International Civil Aviation Organization ICAO, Part 2 - Pavement Surface conditions, fourth édition 2002 ZTV ZEB-StB 2006: Zusätzliche Technische Vertragsbedingungen und Richtlinien zur Zustandserfassung und Bewertung von Strassen <i>(only available in German language)</i>	1

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

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