



STS Directory

Accreditation number: STS 0102

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

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Initial accreditation: 28.02.1995
Current accreditation: 22.04.2020 to 21.04.2025
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 28.01.2021

Testing laboratory for concrete, mortar, seals, bituminous materials and binders, aggregates, in situ tests, geotextiles and geotextile-related products

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)
Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc. (Hardened) concrete	Determination of the water content of building materials according to norm: soils in linoleum, plastic, rubber, cork, textile and wood, appendix A: calcium carbide method (CM method)	SIA 253 appendix A resp. SN 567 253
	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



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(Hardened) concrete	Determination of the Freeze-thaw resistance	SIA 262/1 appendix C resp. SN 505 262/1
	Determination of (creep) and shrinkage	SIA 262/1 appendix F resp. SN 505 262/1
	Determination of resistance to carbonation	SIA 262/1 appendix I resp. SN 505 262/1
	Determination of the freeze and freeze-thaw resistance BE I (concrete surface layer) according to norm: Betondecken - Prüfmethoden zur Bestimmung des Frost- und Frosttaumittelwiderstands	SN 640 464
	Determination of secant modulus of elasticity in compression	SN EN 12390-13 bzw. SIA 262.263
	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
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	



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(Hardened) concrete	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
Mortar (for masonry)	Determination of flexural and compressive strength of hardened mortar	SN EN 1015-11 resp. SIA 177.161
	Determination of flexural and compressive strength (screed materials)	SN EN 13892-2 resp. SIA 252.004
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	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213



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Concrete structures and elements	Determination of chloride content in hardened concrete (cold nitric acid digestion / ion-sensitive) - Products and systems for the protection and repair of concrete structures	SN EN 14629 resp. SIA 262.496, modified procedure
Concrete and mortar: in situ tests	Confirmation test on mortar of finished screed as well as on hardened and on a prototype plate	SIA 251 resp. SN 567 251, chap. 6.1, 6.2
	Determination of the water content of building materials (CM method) according to norm: industrial soils without joints	SIA 252 appendix I resp. SN 567 252
	Determination of the corrosion of steel reinforcing bars according to norm: preservation of concrete structures	SIA 269/2 resp. SN 505 269/2
	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 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	SN EN 1542 resp. SIA 162.421



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Concrete and mortar: in situ tests	<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>Determination of the water content of building materials according to calcium carbide method (CM method)</p>	<p>SN EN 1766 resp. SIA 162.424</p> <p>ZTV-ING - Zusätzliche technische Vertragsbedingungen und Richtlinien für Ingenieurbauten. Verkehrsblatt-Verlag. Teil 3, Abschn. 4</p>
Protection and coating systems, coating materials, paints, impregnations, hydrophobics	<p>Determination of liquid water permeability of paints and varnishes - Coating materials and coating systems for exterior masonry and concrete</p> <p>Measurement of bond strength by pull-off</p>	<p>SN EN 1062-3</p> <p>SN EN 1542 resp. SIA 162.421</p>
(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	<p>Methods for sampling aggregates</p> <p>Determination of particle size distribution of aggregates - Sieving Method</p>	<p>SN EN 932-1 resp. SN 670 901-1</p> <p>SN EN 933-1 resp. SN 670 902-1</p>
Soils, underground and rocks: in situ tests	<p>CBR-penetrometer tests, in situ (soils)</p> <p>EV and ME-plate bearing test (soils)</p>	<p>SN 670 316</p> <p>SN 670 317</p>
Bituminous binders	<p>Determination of the penetration index PI according to norm: Specifications for paving grade bitumen</p>	<p>SN EN 12591 resp. SN 670 202-NA</p>



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Bituminous binders	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
	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
Bituminous mixtures	Dynamic indentation test with stamp with a plane section (ETdyn) according to appendix of SN 640 441-NA: Bituminous mixtures - Mastic asphalt, specifications	EN 13108-6 resp. SN 640 441-NA national appendix G
	Determination of layers adhesion (Leutner)	SN 670 461
	Soluble binder content determination of mix asphalt	SN EN 12697-1
	Indentation using cube or cylindrical specimens (CY)	SN EN 12697-20
	Indentation using plate specimens	SN EN 12697-21
	Sampling bituminous mixtures	SN EN 12697-27
	Specimen preparation by impact compactor	SN EN 12697-30



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Bituminous mixtures	Marshall test	SN EN 12697-34
	Determination of the maximum density of bituminous mixtures	SN EN 12697-5
	Determination of bulk density of bituminous specimens	SN EN 12697-6
	Determination of void characteristics of bituminous specimens	SN EN 12697-8
Membranes	Determination of bond strength of flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles	SN EN 13596 resp. SIA 281.305
Road construction and waterproofing: in situ tests	Standard Test Method for Density (degree of compaction) of Bituminous Concrete in Place by Nuclear Methods	ASTM D2950
	Peeling test (bituminous membranes)	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

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