



STS Directory

Accreditation number: STS 0021

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

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Initial accreditation: 21.05.1993
Current accreditation: 21.08.2017 to 20.08.2022
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 09.02.2021

Testing laboratory for concrete, mortar, aggregates, natural stones, plastic, reinforcing steel, surface protection/repair

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.	Wear test using the grinding wheel according to Böhme	DIN 52108
	Determination of abrasion, abrasive disk method (Taber)	DIN 53754
	Determination of water tightness of pipe lining systems	DWA-A 143-3: Sanierung von Entwässerungssystemen ausserhalb von Gebäuden. Teil 3: Vor Ort härtende Schlauchliner
	Determination of soluble salts content according to norm	In-house procedure, SOP 517
	Determination of the sulfate content - total content	In-house procedure, SOP 514



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Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc.	Determination by ion chromatography IC of ammonium, calcium, potassium, magnesium and sodium content	In-house procedure, SOP 513.3
	Determination by ion chromatography IC of chloride, nitrite, nitrate and sulfate content	In-house procedure, SOP 513.2
	Microscopic examination (textural analysis on thin section)	In-house procedure, SOP 300, 301, 303
	Sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete	SN EN 1008 resp. SIA 162.157
	Determination of wear resistance-Bohme - Methods of test for screed materials	SN EN 13892-3 resp. SIA 252.005
	Determination of ignition loss according to norm: Determination of the textile-glass and mineral-filler content; calcination methods (plastics)	SN EN ISO 1172
	Determination of moisture content by drying at elevated temperature; Hygrothermal performance of building materials and products	SN EN ISO 12570 resp. SIA 180.214
	Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties	SN EN ISO 12571 resp. SIA 180.215
	Determination of flexural properties (plastics)	SN EN ISO 178
	Determination of tensile properties (plastics)	SN EN ISO 527
(Hardened) concrete	Determination of pull-off (tension) strength	DIN 1048 Teil 2
	Pore analysis and characterization	In-house procedure, SOP 104
	Determination of the porosity	In-house procedure, SOP 100.1
	Determination of the depth of penetration of water under pressure on cored specimens	In-house procedure, SOP 117.2

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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(Hardened) concrete	<p>Pore analysis, spacing factor according to norm: Determination of air void characteristics in hardened concrete; Admixtures for concrete, mortar and grout. Test methods</p> <p>Determination of Metallic Fiber Content (metallic fibre reinforced concrete)</p> <p>Determination of water infiltration rate</p> <p>Determination of the resistance to chlorides</p> <p>Determination of the Freeze-thaw resistance</p> <p>Determination of the resistance to sulfates</p> <p>Determination of shrinkage</p> <p>Determination of resistance to carbonation</p> <p>Determination of the flexural tensile strength according to norm: Betondecken</p> <p>Diagnostic determination of the Freeze-thaw resistance BE I FT according to norm: Betondecken - Prüfmethode zur Bestimmung des Frost- und Frosttaumittelwiderstands</p> <p>Diagnostic determination of the Freeze-thaw resistance BE I F of the Freeze resistance according to norm: Betondecken - Prüfmethode zur Bestimmung des Frost- und Frosttaumittelwiderstands</p> <p>Physical determination of the Freeze-thaw resistance BE II FT according to norm: Betondecken - Prüfmethode zur Bestimmung des Frost- und Frosttaumittelwiderstands</p>	<p>In-house procedure, SOP 200</p> <p>SIA 162/6 resp. SN 562 162/6</p> <p>SIA 262/1 appendix A resp. SN 505 262/1</p> <p>SIA 262/1 appendix B resp. SN 505 262/1</p> <p>SIA 262/1 appendix C resp. SN 505 262/1</p> <p>SIA 262/1 appendix D resp. SN 505 262/1</p> <p>SIA 262/1 appendix F resp. SN 505 262/1</p> <p>SIA 262/1 appendix I resp. SN 505 262/1</p> <p>SN 640 461</p> <p>SN 640 464</p> <p>SN 640 464</p> <p>SN 640 464</p>



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(Hardened) concrete	Physical determination of the Freeze-thaw resistance BE II F of the Freeze resistance 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
	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 the depth of penetration of water under pressure	SN EN 12390-8 resp. SIA 262.258
	Determination of resistance to carbonation - Products and systems for the protection and repair of concrete structures	SN EN 13295 resp. SIA 262.466
Cement	Determination of Strength (flexural strength)	SN EN 196-1 resp. SIA 215.011
	Determination of Strength (compressive strength)	SN EN 196-1 resp. SIA 215.011
Mortar (for masonry)	Determination of flexural and compressive strength of hardened mortar	SN EN 1015-11 resp. SIA 177.161
	Determination of water-soluble chloride content of fresh mortars - mortar for masonry	SN EN 1015-17 resp. SIA 177.167
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



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Fresh concrete and mortar	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
Concrete structures and elements	Determination of chloride content in hardened concrete - Products and systems for the protection and repair of concrete structures (hot water dilution)	In-house procedure, SOP 515
	Determination of carbonation depth in hardened concrete (microscopic)	SIA 162/3 resp. SN 562 162/3, norme abrogée
	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213
	Determination of resistance of capillary absorption - Products and systems for the protection and repair of concrete structures	SN EN 13057 resp. SIA 162.463
	Determination of chloride content in hardened concrete (nitric acid digestion) - 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
	Tensile testing according to norm: Test methods of reinforcing bar, wire rod and wire	SN EN ISO 15630-1 resp. SIA 162.021
	Concrete and mortar: in situ tests	
Measurement of the pull-off strength of finished screeds	SIA 251 resp. SN 567 251, chap. 6.4	
Measurement of the pull-off strength of floor coverings	SIA 252 resp. SN 567 252	



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<p>Concrete and mortar: in situ tests</p> <p>Protection and coating systems, coating materials, paints, impregnations, hydrophobics</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 the water absorption coefficient according to norm: Determination and classification of liquid-water transmission rate (permeability) of coating materials and coating system</p> <p>Determination of liquid water permeability of paints and varnishes - Coating materials and coating systems for exterior masonry and concrete</p> <p>Determination of carbon dioxide permeability</p> <p>Determination of crack bridging properties</p> <p>Determination of compressive strength of repair mortar (Products and systems for the protection and repair of concrete structures)</p> <p>Determination of shrinkage and expansion</p> <p>Determination of modulus of elasticity in compression (Products and systems for the protection and repair of concrete structures)</p> <p>Determination of thermal compatibility - Part 1: Freeze-thaw cycling with de-icing salt immersion</p> <p>Determination of thermal compatibility - Part 2: Thunder-shower cycling (thermal shock)</p> <p>Measurement of bond strength by pull-off</p> <p>Measurement of coating thickness. Microscopical method</p>	<p>SN EN 13892-8 resp. SIA 252.010</p> <p>SN EN 1542 resp. SIA 162.421</p> <p>In-house procedure, SOP 101</p> <p>SN EN 1062-3</p> <p>SN EN 1062-6</p> <p>SN EN 1062-7</p> <p>SN EN 12190 resp. SIA 162.450</p> <p>SN EN 12617-4 resp. SIA 162.459</p> <p>SN EN 13412 resp. SIA 262.468</p> <p>SN EN 13687-1 resp. SIA 162.471</p> <p>SN EN 13687-2 resp. SIA 162.472</p> <p>SN EN 1542 resp. SIA 162.421</p> <p>SN EN ISO 1463</p>



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Protection and coating systems, coating materials, paints, impregnations, hydrophobics (Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Cross-cut test (Paints and varnishes)	SN EN ISO 2409
	Determination and classification of water-vapour transmission rate (permeability) of coating materials and coating system	SN EN ISO 7783
	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 particle size distribution of aggregates - Sieving Method	SN EN 933-1 resp. SN 670 902-1
	Tests for geometrical properties of aggregates - Classification test for the constituents of coarse recycled aggregate	SN EN 933-11 resp. SN 670 902-11
Rocks, natural stones	Determination of Particle Shape of aggregates - Flakiness Index	SN EN 933-3 resp. SN 670 902-3
	Determination of flexural strength under concentrated load	SN EN 12372 resp. SIA 246.206

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