



STS Directory

Accreditation number: **STS 0090**

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

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Initial accreditation: 25.10.1994
Current accreditation: 14.02.2020 to 13.02.2025
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as from 27.10.2021

Testing laboratory for soils, aggregates, bituminous binders and mixtures, concretes, in situ tests and survey of roads and other circulated area

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 water infiltration rate Making and curing specimens for strength tests Compressive Strength of test specimens Determination of Density of hardened concrete Determination of the depth of penetration of water under pressure	SIA 262/1 annex A resp. SN 505 262/1 SN EN 12390-2 resp. SIA 262.252 SN EN 12390-3 resp. SIA 262.253 SN EN 12390-7 resp. SIA 262.257 SN EN 12390-8 resp. SIA 262.258
Fresh concrete and mortar	Determination of the density and cement content	SIA 162/1, test No 18, resp. SN 562 162/1, repealed standards



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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)
Fresh concrete and mortar	Determination of the water content of freshly mixed concrete Sampling fresh concrete Slump test Determination of degree of compactability Flow table test Determination of density Determination of air content; Pressure methods Slump-flow test (Self-compacting concrete)	SIA 262/1 annex H resp. SN 505 262/1 SN EN 12350-1 resp. SIA 262.231 SN EN 12350-2 resp. SIA 262.232 SN EN 12350-4 resp. SIA 262.234 SN EN 12350-5 resp. SIA 262.235 SN EN 12350-6 resp. SIA 262.236 SN EN 12350-7 resp. SIA 262.237 SN EN 12350-8 resp. SIA 262.238
Concrete structures and elements	Determination of chloride content in hardened concrete – Products and systems for the protection and repair of concrete structures Determination of carbonation depth in hardened concrete by the phenolphthalein method – Products and systems for the protection and repair of concrete structures	SN EN 14629 resp. SIA 262.496 SN EN 14630 resp. SIA 262.495
Concrete and mortar: in situ tests	Measurement of bond strength by pull-off 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	SN EN 1542 resp. SIA 162.421 SN EN 1766 resp. SIA 262.424
(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Sedimentation analysis, areometer method (mineral aggregates) Determination of resistance of aggregates to fragmentation	SN 670 816, repealed standard SN EN 1097-2 resp. SN 670 903-2



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	<p>Determination of loose bulk density and voids of aggregates</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>Methods for sampling aggregates</p> <p>Determination of particle size distribution of aggregates - Sieving Method</p> <p>Tests for geometrical properties of aggregates - Classification test for the constituents of coarse recycled aggregate</p> <p>Determination of Particle Shape of aggregates - Flakiness Index</p> <p>Determination of percentage of crushed and broken surfaces in coarse aggregate particles</p> <p>Determination of flow coefficient of aggregates</p>	<p>SN EN 1097-3 resp. SN 670 903-3</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 932-1 resp. SN 670 901-1</p> <p>SN EN 933-1 resp. SN 670 902-1</p> <p>SN EN 933-11 resp. SN 670 902-11</p> <p>SN EN 933-3 resp. SN 670 902-3</p> <p>SN EN 933-5 resp. SN 670 902-5</p>
Soft rocks, soils, ground	<p>Determination of consistency limits (liquid limit and plastic limit of soils, 3 point method)</p> <p>Test methods for the determination of the laboratory reference density and water content (unbound and hydraulically bound mixtures). Proctor compaction</p>	<p>SN EN 933-6 resp. SN 670 902-6</p> <p>SN 670 345, withdrawn standard</p> <p>SN EN 13286-2 resp. SN 670 330-2</p>
Soils, underground and rocks: in situ tests	<p>Determination of particle size distribution (soils)</p> <p>EV and ME-plate bearing test (soils)</p>	<p>SN EN ISO 17892-4 resp. SN 670 340-4</p> <p>VSS 70 317 resp. SN 670 317 (old No, no more valid)</p>
Bituminous binders	<p>Determination of the penetration index PI according to norm: Specifications for paving grade bitumen</p> <p>Bitumen recovery: Rotary evaporator (Perchloroethylene)</p> <p>Determination of the elastic recovery of modified bitumen</p>	<p>SN EN 12591 resp. SN 670 202</p> <p>SN EN 12697-3 resp. SN 670 403, modified procedure</p> <p>SN EN 13398 resp. SN 670 547</p>



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Bituminous binders	<p>Determination of needle penetration</p> <p>Determination of softening point Ring and Ball method</p> <p>Sampling bituminous binders</p>	<p>SN EN 1426 resp. SN 670 511</p> <p>SN EN 1427 resp. SN 670 512</p> <p>SN EN 58 resp. SN 670 501</p>
Bituminous mixtures	<p>Determination of the soluble binder part according to Rouen</p> <p>Determination of layers adhesion (Leutner)</p> <p>Soluble binder content determination of mix asphalt</p> <p>Determination of the water sensitivity of bituminous specimens</p> <p>Determination of particle size distribution of hot mix asphalt</p> <p>Determination of the indirect tensile strength of bituminous specimens</p> <p>Sampling bituminous mixtures</p> <p>Specimen preparation by impact compactor</p> <p>Marshall test</p> <p>Method for the determination of the thickness of a bituminous pavement</p> <p>Determination of the maximum density of hot mix asphalt</p> <p>Determination of bulk density of bituminous specimens</p> <p>Determination of void characteristics of bituminous specimens</p>	<p>Méthode LPC "projet de mode opératoire - Rouen", modified procedure</p> <p>VSS 70 461 resp. SN 670 461 (old No, no more valid)</p> <p>SN EN 12697-1</p> <p>SN EN 12697-12</p> <p>SN EN 12697-2</p> <p>SN EN 12697-23</p> <p>SN EN 12697-27 resp. SN 670 427</p> <p>SN EN 12697-30</p> <p>SN EN 12697-34</p> <p>SN EN 12697-36 resp. SN 670 436</p> <p>SN EN 12697-5</p> <p>SN EN 12697-6</p> <p>SN EN 12697-8</p>
Road construction and waterproofing: in situ tests	<p>Measurement of transverse and longitudinal profiles in the evenness and megatexture wavelength ranges (ARAN - automatic road analyzer) - Road and airfield surface characteristics</p> <p>Determination of transverse unevenness indices (ARAN - automatic road analyzer) - Road and airfield surface characteristics</p>	<p>SN EN 13036-6 resp. SN 640 516-6</p> <p>SN EN 13036-8 resp. SN 640 516-8</p>



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<p>Road construction and water-proofing: in situ tests</p>	<p>Deflexion test</p> <p>Condition description and index evaluation (ARAN - automatic road analyzer) - Maintenance management of the roadways</p> <p>Measurement of pavement surface macrottexture depth using a volumetric patch technique (ARAN - automatic road analyzer) - Road and airfield surface characteristics</p> <p>Determination of Mean Profile Depth (ISO 13473-1) (ARAN - automatic road analyzer) - Characterization of pavement texture by use of surface profiles</p> <p>Measurement of the longitudinal evenness - Pavement surface characteristics (ARAN - automatic road analyzer)</p> <p>Measurement of the transverse evenness - Pavement surface characteristics (ARAN - automatic road analyzer)</p>	<p>Falling Weight Deflectometer – Calibration Guide, protocol 3 + 10 CROW Report D11-07 - national information and technology platform for infrastructure, traffic, transport and public space, NL</p> <p>VSS 40 925 resp. SN 640 925 (old No, no more valid)</p> <p>SN EN 13036-1 resp. SN 640 511-1</p> <p>SN EN ISO 13473-1 resp. SN 640 511-11</p> <p>VSS 40 517 resp. SN 640 517 (old No, no more valid)</p> <p>VSS 40 518 resp. SN 640 518 (old No, no more valid)</p>
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