



## STS Directory

## Accreditation number: STS 0135

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

Walo Bertschinger Central AG  
Zentrale Labordienste  
Giessenstrasse 5  
8953 Dietikon

Head: Sandra Dünner  
Responsible for MS: Ismael Otero  
Telephone: +41 44 745 23 11  
E-Mail: [labor@walo.ch](mailto:labor@walo.ch)  
Internet: [www.walo.ch](http://www.walo.ch)  
Initial accreditation: 17.11.1995  
Current accreditation: 11.02.2019 to 10.02.2024  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 06.09.2022

#### Testing laboratory for bituminous materials, mixtures and waterproofings (damm and waste deposit constructions), concrete, aggregates (additive), soils 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)
(Hardened) concrete	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
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



## STS Directory

## Accreditation number: STS 0135

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)
<p>Concrete structures and elements</p> <p>(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.</p>	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
	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213
	Determination of resistance of aggregates to fragmentation	SN EN 1097-2 resp. SN 670 903-2
	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
	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
	Methods for sampling aggregates	SN EN 932-1 resp. SN 670 901-1
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 after washing	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	



## STS Directory

## Accreditation number: STS 0135

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)
Soft rocks, soils, ground  Soils, underground and rocks: in situ tests  Bituminous binders	Determination of Particle Shape of aggregates - Flakiness Index	SN EN 933-3 resp. SN 670 902-3
	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
	Determination of the water content of soils	SN EN ISO 17892-1 resp. SN 670 340-1
	EV and ME-plate bearing test (soils)	SN 670 317
	Determination of equi-shear modulus temperature and phase angle using a Dynamic Shear Rheometer (DSR) - BTSV test - Bitumen and bituminous binders	prEN 17643
	Preparation of test samples	SN EN 12594 resp. SN 670 504
	Determination of the resistance to hardening under the influence of heat and air. Part 3: RFT Method	SN EN 12607-3 resp. SN 670 518
	Determination of the affinity between aggregate and bitumen	SN EN 12697-11
	Binder drainage	SN EN 12697-18 resp. SN 670 418
	Bitumen recovery: Rotary evaporator (toluol)	SN EN 12697-3
	Bitumen recovery: Rotary evaporator (trichloroethylene)	SN EN 12697-3, SN modified procedure
	Delta ring and ball test	SN EN 13179-1 resp. SN 670 906-1
	Determination of the elastic recovery of modified bitumen	SN EN 13398 resp. SN 670 547
Determination of the tensile properties of modified bitumen by the force ductility method	SN EN 13589	
Characterization of perceptible properties	SN EN 1425 resp. SN 670 503	



## STS Directory

## Accreditation number: STS 0135

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)
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
	Aptitude test of Asphalt Concrete Pavements for construction in the presence of water	Empfehlungen für die Ausführung von Asphaltarbeiten im Wasserbau (EAAW) 83/96
	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 441a/b-NA national appendix G
	Permeability test (watertightness in pressure pot) according to norm: waste disposal	SIA 203, modified procedure (EMPA)
	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
	Indentation using cube or cylindrical specimens (CY)	SN EN 12697-20
	Specimen preparation by impact compactor	SN EN 12697-30
	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 the stability of embankments according to "van Asbeck"	W.F. Van Asbeck, 1962: Le bitume dans les travaux hydrauliques / Paris - Dunod, modified procedure	



## STS Directory

## Accreditation number: STS 0135

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)
Road construction and waterproofing: in situ tests	<p>Standard Test Method for Density (degree of compaction) of Bituminous Concrete (pavements) in Place by PDM Method according to standard: Determination of the density of Bituminous Paving Mixtures in Place by the Electromagnetic Surface Contact Methods</p> <p>Peeling test (bituminous membranes)</p> <p>Determination of pull-off bond strength of bituminous membranes</p> <p>Control of the geometry - Longitudinal flatness - Surface characteristics of pavements</p> <p>Transversal flatness - Surface characteristics of pavements</p> <p>Benkelman beam deflexion test</p> <p>Measurement of pavement surface macrotexture depth using a volumetric patch technique - Road and airfield surface characteristics</p> <p>Measurement of pavement surface horizontal drainability - Road and airfield surface characteristics</p> <p>Method for measurement of slip/skid resistance of a surface. The pendulum test - Road and airfield surface characteristics</p> <p>Measurement of bond strength by pull-off (Products and systems for the protection and repair of concrete structures)</p> <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>ASTM D7113, modified procedure</p> <p>SIA 281/2 resp. SN 564 281/2</p> <p>SIA 281/3 resp. SN 573 281/3</p> <p>SN 640 517</p> <p>SN 640 518</p> <p>SN 670 362</p> <p>SN EN 13036-1 resp. SN 640 511-1</p> <p>SN EN 13036-3 resp. SN 640 511-3</p> <p>SN EN 13036-4 resp. SN 640 512-4</p> <p>SN EN 1542 resp. SIA 162.421</p> <p>SN EN 1766 resp. SIA 262.424</p>



**STS Directory**

**Accreditation number: STS 0135**

<b>Group of products or materials, field of activity</b>	<b>Principle of measurement <sup>2)</sup> (characteristics, measuring ranges, type of test)</b>	<b>Test methods, remarks (national, international standards, in-house test methods)</b>
	Determination of the water content of building materials according to calcium carbide method (CM method)	ZTV-ING - Teil 3 Abschnitt 4, Zusätzliche technische Vertragsbedingungen und Richtlinien für Ingenieurbauten. Verkehrsblatt-Verlag

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

\* / \* / \* / \* / \*

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