



STS Directory

Accreditation number: STS 0113

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

<p>IMM Istituto Meccanica dei Materiali SA Via al Molino 55 6916 Grancia (Lab. 1)</p> <p>Site 1 IMM, Istituto Meccanica dei Materiali SA Route de Préjeux 25 1950 Sion (Lab. 2)</p>	<p>Head: Michel Di Tommaso, Dott. Geol. Eur Ing.</p> <p>Responsible for MS: Gaetano D'Angelo, Ing. Elettronico</p> <p>Telephone: +41 91 994 83 41</p> <p>E-Mail: imm@imm.ch</p> <p>Internet: http://www.imm.ch</p> <p>Initial accreditation: 07.06.1995</p> <p>Current accreditation: 14.03.2020 to 13.03.2025</p> <p>Scope of accreditation see: www.sas.admin.ch (Accredited bodies)</p>
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Scope of accreditation as of 31.03.2022

Testing laboratory for concrete, mortar, cement, aggregates, soils, rocks, bituminous binders and mixtures as well as for in situ tests

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)	Lab
Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc. (Hardened) concrete	Qualitative detection of thermal irregularities in building envelopes - Infrared method (ISO 6781:1983 modified) - Thermal performance of buildings	SN EN 13187 resp. SIA 180.223	1
	Petrographic examinations AAR - alkali reaction according to norm: Standard Practice for Petrographic Examination (Hardened Concrete)	ASTM C856, modified procedure	1
	Determination of water infiltration rate, watertightness	DIN 1048-1, repealed standard, Kap. 4.7, modified procedure	1
	Plate flexural test (metallic fibre reinforced concrete)	SIA 162/6 resp. SN 562 162/6	1



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(Hardened) concrete	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
	Determination of the resistance to sulfates	SIA 262/1 appendix D resp. SN 505 262/1	1
	Determination of (creep) and shrinkage	SIA 262/1 appendix F resp. SN 505 262/1	1
	Determination of resistance to carbonation	SIA 262/1 appendix I resp. SN 505 262/1	1
	Performance test - reactivity of a concrete mixture against alkali reaction (AAR)	SIA guideline 2042, appendix F	1
	Determination of secant modulus of elasticity in compression	SN EN 12390-13 resp. SIA 262.263	1
	Compressive Strength of test specimens	SN EN 12390-3 resp. SIA 262.253	1, 2
	Determination of flexural strength of test specimens	SN EN 12390-5 resp. SIA 262.255	1
	Determination of the depth of penetration of water under pressure	SN EN 12390-8 resp. SIA 262.258	1
	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213	1, 2
	Cement	Determination of Strength (flexural and compressive strength)	SN EN 196-1 resp. SIA 215.011
Determination of setting time and soundness		SN EN 196-3 resp. SIA 215.013	1
Determination of Fineness		SN EN 196-6 resp. SIA 215.016	1
Fresh concrete and mortar	Determination of accuracy of proportioning and measurement of concrete plant equipments	ASPCP Associazione Svizzera Produttori Calcestruzzo Preconfezionato (FSKB), cap. 3	1
	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

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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Fresh concrete and mortar	L box test (Self-compacting concrete)	SN EN 12350-10 resp. SIA 262.240	1, 2
	Sieve segregation test (Self-compacting concrete)	SN EN 12350-11 resp. SIA 262.241	1, 2
	J-ring test (Self-compacting concrete)	SN EN 12350-12 resp. SIA 262.242	1, 2
	Slump test	SN EN 12350-2 resp. SIA 262.232	1, 2
	Determination of 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
	V-funnel test (Self-compacting concrete)	SN EN 12350-9 resp. SIA 262.239	1, 2
	Determination of the productivity rate of fresh concrete according to norm: Concrete - Specification, performance, production and conformity	SN EN 206 resp. SIA 162.051, modified procedure	1, 2
Concrete structures and elements	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213	1
	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, modified procedure	1
	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	1



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Determination of deformations and structural monitoring with fiber optic deformation sensors	In-house procedure	1
	Determination of the corrosion of steel reinforcing bars according to norm: Execution and interpretation of potential measurement on reinforced concrete	SIA guideline 2006, appendix 8	1
	Determination of rebound number (Schmidt Hammer) of concrete in structures - Non-destructive testing	SN EN 12504-2 resp. SIA 262.214	1
	Measurement of bond strength by pull-off	SN EN 1542 resp. SIA 162.421	1
	Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117 - 17	1
	Standard Test Method for Light-weight Particles in Aggregate	ASTM C123 / C123M - 14	1
	Standard Guide for Petrographic Examination of Aggregates for Concrete	ASTM C295 / C295M - 19	1
	Determination of organic matter (in soils)	SN 670 370, modified procedure	1
	Determination of resistance of aggregates to fragmentation	SN EN 1097-2 resp. SN 670 903-2	1
	Determination of loose bulk density and voids of aggregates	SN EN 1097-3 resp. SN 670 903-3	1
	Determination of the water content of aggregates by drying in a ventilated oven	SN EN 1097-5 resp. SN 670 903-5	1
	Determination of particle density and water absorption of aggregates	SN EN 1097-6 resp. SN 670 903-6	1, 2
	Determination of resistance of aggregates to freezing and thawing	SN EN 1367-1 resp. SN 670 904-1	1
	Procedure and terminology for simplified petrographic description	SN EN 932-3 resp. SN 670 901-3	1



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc. Soft rocks, soils, ground	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
	Methylene blue test for assessment of fines of aggregates	SN EN 933-9 resp. SN 670 902-9	1
	Determination of organic matter (in soils) according to: Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soil	ASTM D2974	1
	Determination of density of soils (in situ method)	SN 670 335	1
	Test methods for laboratory reference density and water content (Unbound and hydraulically bound mixtures); Introduction, general requirements and sampling	SN EN 13286-1 resp. SN 670 330-1	1
	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, immediate bearing index and linear swelling	SN EN 13286-47 resp. SN 670 330-47	1
	Determination of particle size distribution of aggregates - Sieving Method	SN EN 933-1 resp. SN 670 902-1, modified procedure	1
	Determination of the water content of soils	SN EN ISO 17892-1 resp. SN 670 340-1	1
	Determination of liquid and plastic limits	SN EN ISO 17892-12	1
	Determination of density of fine grained soil	SN EN ISO 17892-2 resp. SN 670 340-2	1
	Determination of particle density – Pycnometer method	SN EN ISO 17892-3 resp. SN 670 340-3	1



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Soils, underground and rocks: in situ tests	Determination of particle size distribution (soils)	SN EN ISO 17892-4 resp. SN 670 340-4	1
	EV and ME-plate bearing test (soils)	SN 670 317	1, 2
Rocks, natural stones	Determination of the Splitting Tensile Strength of Intact Rock Core Specimens	ASTM D3967	1
	Standard Test Method for Performing Laboratory Direct Shear Strength Tests of Rock Specimens Under Constant Normal Force	ASTM D5607	1
	Determination of the Point Load Strength Index of Rock (Franklin test)	ASTM D5731	1
	Standard Test Method for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012-14	1
	Standard Test Method for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012-14	1
	Compressive strength test of natural stones	DIN 52105	1
	Determination of resistance to salt crystallization	SN EN 12370 resp. SIA 246.204	1
	Determination of frost resistance	SN EN 12371 resp. SIA 246.205	1
	Determination of flexural strength under concentrated load	SN EN 12372 resp. SIA 246.206	1
	Determination of flexural strength under constant moment	SN EN 13161 resp. SIA 246.208	1
	Determination of water absorption at atmospheric pressure	SN EN 13755 resp. SIA 246.211	1
Determination of water absorption coefficient by capillarity	SN EN 1925 resp. SIA 246.201	1	
Determination of uniaxial compressive strength	SN EN 1926 resp. SIA 246.202	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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Rocks, natural stones	Determination of real density and apparent density, and of total and open porosity	SN EN 1936 resp. SIA 246.203	1
Bituminous binders	Determination of ductility	SN 670 546, repealed standard	1
	Index of penetration (calculation) according to norm: Specifications for paving grade bitumens	SN EN 12591 resp. SN 670 202-NA	1
	Bitumen recovery: Rotary evaporator (toluol)	SN EN 12697-3	1
	Bitumen recovery: Rotary evaporator (trichloroethylene)	SN EN 12697-3, SN modified procedure	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 deformation energy	SN EN 13703 resp. SN 670 549	1
	Determination of needle penetration	SN EN 1426 resp. SN 670 511	1
	Determination of softening point Ring and Ball method	SN EN 1427 resp. SN 670 512	1, 2
Bituminous mixtures	Sampling bituminous binders	SN EN 58 resp. SN 670 501	1, 2
	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	1
	Determination of the void content and degree of compaction according to norm: Design, execution, requirements for the layers in place	SN 640 430	1, 2
	Determination of layers adhesion (Leutner)	SN 670 461	1, 2
	Soluble binder content determination of mix asphalt	SN EN 12697-1	1, 2
	Determination of particle size distribution of bituminous mixtures	SN EN 12697-2	1, 2



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Bituminous mixtures	Indentation using cube or cylindrical specimens (CY)	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
	Cyclic compression test - Mehtod A2	SN EN 12697-25	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	1, 2
	Method for the determination of the thickness of a bituminous pavement	SN EN 12697-36	1, 2
	Determination of the maximum density of bituminous mixtures	SN EN 12697-5	1, 2
	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	Determination of the density of Bituminous Paving Mixtures in Place by the Electromagnetic Surface Contact Methods	ASTM D7113/D7113M
Peeling test (bituminous membranes)		SIA 281/2 resp. SN 564 281/2	1
Determination of pull-off bond strength of bituminous membranes		SIA 281/3 resp. SN 573 281/3	1
Control of the geometry - Longitudinal flatness - Surface characteristics of pavements		SN 640 517	1
Transversal flatness - Surface characteristics of pavements		SN 640 518	1
Benkelman beam deflexion test		SN 670 362	1



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Road construction and water-proofing: in situ tests	Method for measurement of slip/skid resistance of a surface. The pendulum test - Road and air-field surface characteristics	SN EN 13036-4 resp. SN 640 512-4	1, 2

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 2) Scope of accreditation type B (flexible)
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