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Accreditation number: STS 0102

International standard: ISO/IEC 17025:2005
Swiss standard: SN EN ISO/IEC 17025:2005

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Internet: <http://www.tecnotest.ch>
Initial accreditation: 28.02.1995
Current accreditation: 17.02.2015 to 16.02.2020
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 08.12.2016

Testing laboratory for concrete, mortar, seals, joint-sealants, 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.	Endoscopic examinations according to norm: Engineering structures in connection with roads - inspection and test	DIN 1076
	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 content - Determination by oven dry method (sawn timber)	SN EN 13183-1 resp. SIA 164.525, modified procedure



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<p>Various tests with multiple applications: building materials, buildings, water, wood, plastics, etc.</p> <p>(Hardened) concrete</p>	<p>Determination of moisture content by drying at elevated temperature; Hygrothermal performance of building materials and products</p> <p>Determination of the water content of building materials</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 (creep) and shrinkage</p> <p>Determination of resistance to carbonation</p> <p>Determination of air void characteristics</p> <p>Determination of the freeze and freeze-thaw resistance BE I (concrete surface layer) according to norm: Betondecken - Prüfmethoden zur Bestimmung des Frost- und Frosttaumittelwiderstands</p> <p>Determination of secant modulus of elasticity in compression</p> <p>Compressive Strength of test specimens</p> <p>Determination of Textural strength of test specimens</p> <p>Determination of Density of hardened concrete</p> <p>Determination of chloride content in hardened concrete - Products and systems for the protection and repair of concrete structures</p>	<p>SN EN ISO 12570 resp. SIA 180.214</p> <p>ZTV-ING - Zusätzliche technische Vertragsbedingungen und Richtlinien für Ingenieurbauten. Verkehrsblatt-Verlag</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 F resp. SN 505 262/1</p> <p>SIA 262/1 appendix I resp. SN 505 262/1</p> <p>SIA 262/1 appendix K resp. SN 505 262/1</p> <p>SN 640 464</p> <p>SN EN 12390-13 bzw. SIA 262.263</p> <p>SN EN 12390-3 resp. SIA 262.253</p> <p>SN EN 12390-5 resp. SIA 262.255</p> <p>SN EN 12390-7 resp. SIA 262.257</p> <p>SN EN 14629 resp. SIA 262.496</p>



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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
	Determination of water absorption coefficient by partial immersion (ISO 15148:2002) according to norm: Hygrothermal performance of building materials and products	SN EN ISO 15148 resp. SIA 180.224
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
	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 air content; Pressure methods	SN EN 12350-7 resp. SIA 262.237
Concrete structures and elements	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213
	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	Measurement of the opening of cracks according to norm: concrete conservation according to norm: concrete conservation	SIA 162/5 resp. SN 562 162/5
	Determination of the water content of building materials (CM method) according to norm: industrial soils without joints	SIA 252 resp. SN 567 252



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Concrete and mortar: in situ tests	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 rebound number (Schmidt Hammer) of concrete in structures - Non-destructive testing	SN EN 12504-2 resp. SIA 262.214
	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
	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 1766 resp. SIA 162.424
	Determination of the water content of building materials according to calcium carbide method (CM method)	ZTV-ING - Zusätzliche technische Vertragsbedingungen und Richtlinien für Ingenieurbauten. Verkehrsblatt-Verlag. Teil 3, Abschn. 4
Protection and coating systems, coating materials, paints, impregnations, hydrophobics	Determination and classification of liquid-water transmission rate (permeability) of coating materials and coating system	SN EN 1062-3
	Measurement of bond strength by pull-off	SN EN 1542 resp. SIA 162.421
(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Methods for sampling aggregates	SN EN 932-1 resp. SN 670 901-1

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Determination of particle size distribution of aggregates - Sieving Method	SN EN 933-1 resp. SN 670 902-1
Soils, underground and rocks: in situ tests	EV and ME-plate bearing test (soils)	SN 670 317
Bituminous binders	Determination of adhesion of bituminous binders on aggregates (mix asphalt)	SN 670 460
	Determination of the penetration index PI according to norm: Specifications for paving grade bitumen	SN EN 12591 resp. SN 670 202-NA
	Bitumen recovery: Rotary evaporator	SN EN 12697-3 resp. SN 670 403-NA
	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 EN 670 511
	Determination of softening point Ring and Ball method	SN EN 1427 resp. SN EN 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
	Soluble binder content determination of mix asphalt	SN EN 12697-1 resp. SN 670 401
	Indentation using cube or Marshall specimens	SN EN 12697-20 resp. SN 670 420
	Indentation using plate specimens	SN EN 12697-21 resp. SN 670 421
	Sampling bituminous mixtures	SN EN 12697-27 resp. SN 670 427
	Specimen preparation by impact compactor	SN EN 12697-30 resp. SN 670 430
	Marshall test	SN EN 12697-34 resp. SN 670 434



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Bituminous mixtures Hot applied joint sealants, asphalt plug joints	Determination of the maximum density of hot mix asphalt	SN EN 12697-5 resp. SN 670 405
	Determination of bulk density of bituminous specimens	SN EN 12697-6 resp. SN 670 406
	Determination of void characteristics of bituminous specimens	SN EN 12697-8 resp. SN 670 408
	Determination of adhesion and cohesion following continuous extension and compression (hot applied joint sealants)	SN EN 13880-10 resp. SN 670 640
	Determination of the discontinuous extension (adherence test - hot applied joint sealants)	SN EN 13880-13 resp. SN 670 643
	Determination of cone penetration at 25 °C (hot applied joint sealants)	SN EN 13880-2 resp. SN 670 632
	Determination of penetration and recovery (resilience - hot applied joint sealants)	SN EN 13880-3 resp. SN 670 633
	Method for the preparation of samples for testing: Determination of appearance and composition (hot applied joint sealants)	SN EN 13880-6 resp. SN 670 636
Membranes	Determination of needle penetration after heating	SN EN 1426 resp. SN 670 500-7 after SN 671 904, modified procedures
	Determination of the watertightness - Liquid Applied Roof Waterproofing Kits	EOTA 005 TR-003
	Determination of the resistance to delamination - Liquid Applied Roof Waterproofing Kits	EOTA 005 TR-004
	Determination of the resistance to dynamic indentation	EOTA 005 TR-006
	Determination of the resistance to static indentation - Liquid Applied Roof Waterproofing Kits	EOTA 005 TR-007
Determination of the resistance to sliding - Liquid Applied Roof Waterproofing Kits	EOTA 005 TR-009	



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Membranes	<p>Exposure procedure for artificial weathering - Liquid Applied Roof Waterproofing Kits</p> <p>Exposure procedure for accelerated ageing by heat - Liquid Applied Roof Waterproofing Kits</p> <p>Determination of the resistance of joints</p> <p>Determination of dimensional stability - Part 1: Bitumen sheets for roof waterproofing</p> <p>Determination of dimensional stability - Part 2: Plastic and rubber sheets for roof waterproofing</p> <p>Determination of flexibility at low temperature of flexible sheets for waterproofing</p> <p>Determination of flow resistance at elevated temperature</p> <p>Determination of resistance to tearing (nail shank) of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing</p> <p>Determination of resistance to tearing of flexible sheets for waterproofing - Part 2: Plastic and rubber sheets for roof waterproofing</p> <p>Determination of tensile properties of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing</p> <p>Determination of tensile properties of Flexible sheets for waterproofing - Part 2: Plastic and rubber sheets for roof waterproofing</p> <p>Determination of peel resistance of joints of Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing</p>	<p>EOTA 005 TR-010</p> <p>EOTA 005 TR-011</p> <p>SIA V280, test nr. 16 resp. SN 564 280</p> <p>SN EN 1107-1 resp. SIA 281.302</p> <p>SN EN 1107-2 resp. SIA 280.304</p> <p>SN EN 1109 resp. SIA 281.304</p> <p>SN EN 1110 resp. SIA 281.303</p> <p>SN EN 12310-1 resp. SIA 281.314</p> <p>SN EN 12310-2 resp. SIA 280.320</p> <p>SN EN 12311-1 resp. SIA 281.301</p> <p>SN EN 12311-2 resp. SIA 280.302</p> <p>SN EN 12316-1 resp. SIA 281.315</p>



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Membranes	Determination of peel resistance of joints of flexible sheets for waterproofing - Part 2: Plastic and rubber sheets for roof waterproofing	SN EN 12316-2 resp. SIA 280.321
	Determination of shear resistance of joints of Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing	SN EN 12317-1 resp. SIA 281.316
	Determination of shear resistance of joints of Flexible sheets for waterproofing - Part 2: Plastic and rubber sheets for roof waterproofing	SN EN 12317-2 resp. SIA 280.316
	Determination of resistance to impact of flexible sheets for waterproofing	SN EN 12691 resp. SIA 289.303
	Determination of resistance to static loading of flexible sheets for waterproofing	SN EN 12730 resp. SIA 289.302
	Determination of resistance to water penetration of flexible sheets for waterproofing - Underlays for discontinuous roofing and walls	SN EN 13111 resp. SIA 289.305
	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
	Determination of shear strength of Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles	SN EN 13653 resp. SIA 281.306
	Compatibility by heat conditioning of Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles	SN EN 14691 resp. SIA 281.324
	Determination of the behaviour of (polymer) bitumen sheets during application of mastic asphalt	SN EN 14693 resp. SIA 281.326



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Membranes	Determination of dimensional stability at 160 °C according to norm: Flexible sheets for waterproofing. Reinforced bitumen sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete. Definitions and characteristics	SN EN 14695 annex B
	Determination of length, width and straightness of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing	SN EN 1848-1 resp. SIA 281.319
	Determination of length, width, straightness and flatness of flexible sheets for waterproofing - Part 2: Plastic and rubber sheets for roof waterproofing	SN EN 1848-2 resp. SIA 280.322
	Determination of thickness and mass per unit area of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing	SN EN 1849-1 resp. SIA 281.318
	Determination of thickness and mass per unit area of flexible sheets for waterproofing - Part 2: Plastic and rubber sheets for roof waterproofing	SN EN 1849-2 resp. SIA 280.301
	Determination of visible defects of flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing	SN EN 1850-1 resp. SIA 281.320
	Determination of visible defects of flexible sheets for waterproofing - Part 2: Plastic and rubber sheets for roof waterproofing	SN EN 1850-2 resp. SIA 280.323
	Determination of watertightness of flexible sheets for waterproofing	SN EN 1928 resp. SN 289.301
	Determination of water vapour transmission properties of flexible sheets for waterproofing	SN EN 1931 resp. SN 289.304
	Determination of foldability at low temperature of flexible sheets for waterproofing	SN EN 495-5 resp. SIA 280.303



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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
	Determination of local total thickness with Georadar - Sealing Systems and bituminous layers on roadways	SN 640 456
	Control of the geometry - Flatness	SN 640 520
Geosynthetics - geotextiles and geotextile-related products	Determination of the pyramid puncture resistance of supported geosynthetics	EN 14574
	Determination of the resistance to weathering	SN EN 12224
	Wide-width tensile test (ISO 10319:2008)	SN EN ISO 10319
	Identification on site - Geotextiles and geotextile-related products	SN EN ISO 10320 resp. SN 670 246
	Determination of water permeability characteristics normal to the plane, without load - Geotextiles and geotextile-related products	SN EN ISO 11058 bzw. SN 670 739
	Static puncture test (CRB test)	SN EN ISO 12236 resp. SN 670 711
	Dynamic perforation test (cone drop test)	SN EN ISO 13433 resp. SN 670 747
	Sampling and preparation of test specimens - Geosynthetics	SN EN ISO 9862 resp. SN 670 702
	Determination of thickness at specified pressures - Part 1: Single layers.	SN EN ISO 9863-1 resp. SN 670 703-1
	Test method for the determination of mass per unit area of geotextiles and geotextile-related products	SN EN ISO 9864 resp. SN 670 704

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