



STS Directory

Accreditation number: STS 0410

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

TransGeo AG
Dorfstrasse 10
3073 Gümligen

Head: Christian Wyss
Responsible for MS: Dr. Dagmar Riesen
Telephone: +41 31 964 02 16
E-Mail: <mailto:christian.wyss@transgeo.ch>
Internet: <http://www.transgeo.ch>
Initial accreditation: 23.06.2004
Current accreditation: 23.06.2014 to 22.06.2019
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 01.02.2016

Testing laboratory for concrete, aggregates, soils, rocks, natural stones and recycling materials

| 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 | Wear test using the grinding wheel according to Böhme | DIN 52108 |
| | Performance test - reactivity of a concrete mixture against alkali reaction (AAR) | NF P18-454 |
| | Determination of water infiltration rate | SIA 262/1 appendix A resp. SN 505 262/1 |
| | Determination of the resistance to chlorides | SIA 262/1 appendix B resp. SN 505 262/1 |
| | Determination of the Freeze-thaw resistance | SIA 262/1 appendix C resp. SN 505 262/1 |
| | Determination of the resistance to sulfates | SIA 262/1 appendix D resp. SN 505 262/1 |



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|---|--|---|
| (Hardened) concrete | <p>Determination of resistance to carbonation</p> <p>Performance test - reactivity of a concrete mixture against alkali reaction (AAR)</p> <p>Determination of the Freeze-thaw resistance according to norm: Concrete paving blocks - Requirements and test methods</p> <p>Determination of the Freeze-thaw resistance according to norm: Concrete paving flags - Requirements and test methods</p> <p>Determination of the Freeze-thaw resistance according to norm: Concrete kerb units - Requirements and test methods</p> | <p>SIA 262/1 appendix I resp. SN 505 262/1</p> <p>SIA guideline 2042, appendix F</p> <p>SN EN 1338 annex D resp. SIA 246.508</p> <p>SN EN 1339 annex D resp. SIA 246.509</p> <p>SN EN 1340 annex D resp. SIA 246.510</p> |
| (Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc. | <p>Abrasiveness and crushability test on aggregates</p> <p>Determination of the amount of tender components, macroscopic examination (sand under binocular)</p> <p>Determination of the cubicity of grains</p> <p>Los Angeles test</p> <p>Microbar test - Test methods of reactivity against alkali of aggregates</p> <p>Mineralogy and qualitative and quantitative petrography of aggregates</p> <p>Petrographic determination of the amount of tender components of fillers according to norm: Fillers: qualitative and quantitative mineralogy and petrography</p> | <p>NF P18-579</p> <p>Directive ATG 05b,c (AlpTransit Gotthard AG)</p> <p>SBB Regulation 211.1, Unterbau und Schotter, Vorschriften für Neubau und Erneuerung</p> <p>SBB Regulation 211.1, Unterbau und Schotter, Vorschriften für Neubau und Erneuerung</p> <p>SIA guideline 2042, appendix E</p> <p>SN 670 115</p> <p>SN 670 116</p> |



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| (Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc. | Sedimentation analysis, areometer method (mineral aggregates) | SN 670 816, abrogated norm |
| | Determination of resistance of aggregates to fragmentation | SN EN 1097-2 resp. SN 670 903-2 |
| | Determination of loose bulk density and voids of aggregates | SN EN 1097-3 resp. SN 670 903-3 |
| | 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 polished stone value of aggregates (PSV) | SN EN 1097-8 resp. SN 670 903-8 |
| | Determination of resistance of aggregates to fragmentation according to norm: Aggregates for railway ballast | SN EN 13450 annex C resp. SN 670 110 |
| | Determination of particle shape of aggregates; length according to norm: Aggregates for railway ballast | SN EN 13450 resp. SN 670 110 |
| | Determination of resistance of aggregates to freezing and thawing | SN EN 1367-1 resp. SN 670 904-1 |
| | Magnesium sulfate Test of aggregates | SN EN 1367-2 resp. SN 670 904-2 |
| | 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 |
| | Determination of the influence of recycled aggregate extract on the initial setting time of cement | SN EN 1744-6 resp. SN 670 905-6 |
| Methods for sampling aggregates | SN EN 932-1 resp. SN 670 901-1 | |



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| (Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc. | Methods for reducing laboratory samples of aggregates | SN EN 932-2 resp. SN 670 901-2 |
| | Simplified petrographic description of aggregates | SN EN 932-3 resp. SN 670 901-3 |
| | Microscopic examination (petrographic description on thin section) according to norm: Simplified petrographic description of aggregates | SN EN 932-3 resp. SN 670 901-3, modified procedure |
| | 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 |
| | Determination of Particle Shape of aggregates - Flakiness Index | SN EN 933-3 resp. SN 670 902-3 |
| | Determination of particle shape of aggregates; shape index | SN EN 933-4 resp. SN 670 902-4 |
| | 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 |
| | Cerchar test for the determination of the hardness and abrasiveness of stones | Valentin, A.: Test Cerchar pour la mesure de la dureté et de l'abrasivité des roches. Annexe de l'exposée présentée aux Journées d'Information « Techniques de creusement » Novembre 1973, Luxembourg |
| Soft rocks, soils, ground | Test methods of reactivity against alkali of aggregates - Microbar rapid test | XP P18-594 |
| | Test of swelling due to freeze and CBR test of soils after thaw (CBRF) | SN 670 321 |



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| Soft rocks, soils, ground | 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 |
| Rocks, natural stones | Test method for the determination of California Bearing ratio, immediate bearing index and linear swelling Determination of the Point Load Strength Index of Rock (Franklin test) Method for Determining Point Load Strength - Point Load Test | SN EN 13286-47 resp. SN 670 330-47 ASTM D5731, modified procedure ISRM (1985) International Society for Rock Mechanics, Commission on Testing Methods, Int. J. Rock Mech. Min. Sci. & Geomech. Abstr., Vol. 22, No. 2, pp. 51-60, 1985 |
| Recycled construction materials | Recycling materials analysis (mineral building wastes) | Richtlinie für die Verwertung mineralischer Bauabfälle. 2. aktualisierte Auflage. 2006, BAFU, Abt. Abfall und Rohstoffe bzw. ARV-Gütesicherung für Recyclingbaustoffe |

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