



STS Directory

Accreditation number: STS 0153

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

Empa – Materials Science and
Technology
Structural Engineering Re-
search Laboratory
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Initial accreditation: 03.06.1996
Current accreditation: 01.06.2020 bis 31.05.2025
Scope of accreditation
see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 01.06.2020

Testing laboratory for fatigue and static tests

Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Various tests with multiple applica- tions: construction materials, build- ings, structural elements, rein- forced concrete, steel, timber, masonry, composite materials, plastics, etc.	Application of loads using oil hy- draulic test equipment and meas- uring of loads	In-house procedure (SOP 332)
	Application of loads using trucks and measuring of loads	In-house procedure (SOP 346)
	Measurement of displacement and elongation	In-house procedure (SOP 202)
	Measurement of strains	In-house procedure (SOP 201 and SOP 220)
	Deformation measurements apply- ing the Image Correlation Method	In-house procedure (SOP 5068)



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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Pre-stressing cables and their anchorages in reinforced concrete	Fatigue testing of cables	Test specifications due to customer requests, based on different guidelines (e.g. PTI-Recommendations, EAD 160004-00-0301 (2016), ETAG 013 (2002), fib Bulletin No. 89, etc.) In-house procedure (SOP 219)
	Load transfer tests on post-tensioning systems	Test specifications due to customer requests, based on different guidelines (e.g. EAD 160004-00-0301 (2016), ETAG 013 (2002), etc.) In-house procedure (SOP 5242)
Reinforced concrete structures and structural elements	Determination of adhesion properties of reinforcing steel bars in concrete	SIA 162/1, Test method Nr. 35, outdated standard In-house procedure (SOP 229)

The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. The list is available upon request at the laboratory.

Abkürzung	Bedeutung
EAG	European Assessment Document
ETAG	European Technology Assessment Group
PTI	Post-Tensioning Institute USA
SIA	Swiss Society of Engineers and Architects
SOP	Standard Operation Procedure
STS	Swiss Testing Service

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