



STS Directory

Accreditation number: STS 0068

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

<p>Empa Abteilung 509 Akustik / Lärminderung Überlandstrasse 129 8600 Dübendorf</p>	<p>Head: Dr. Stefan Schoenwald Responsible for MS: Urs Pachale Telephone: +41 58 765 65 79 E-Mail: stefan.schoenwald@empa.ch Internet: www.empa.ch/akustik Initial accreditation: 29.06.1994 Current accreditation: 02.10.2020 to 01.10.2025 Scope of accreditation see: www.sas.admin.ch (Accredited bodies)</p>
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Scope of accreditation as of 16.01.2024

Testing laboratory for Building Acoustic Measurement in Laboratory

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)
<p>Building acoustic measurements</p> <p>Laboratory measurement of air-borne sound insulation of building elements</p>	<p>Weighted sound reduction index R_w with spectrum adaptation terms C and C_{tr}</p> <p>For noise barriers: single-number rating</p> <p>(Airborne sound insulation in laboratory)</p>	<p>EN ISO 10140-1 EN ISO 10140-2 EN ISO 10140-4 EN ISO 717-1</p> <p>EN 1793-2 EN 1793-3</p> <p>SOP 1 (1058)</p>



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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)
Laboratory measurement of impact sound insulation of building elements	Weighted normalised impact sound pressure level $L_{n,w}$ and spectrum adaptation term C_i	EN ISO 10140-1 EN ISO 10140-3 EN ISO 10140-4EN ISO 717-2
Laboratory measurement of sound absorption coefficient of surfaces and objects in the reverberation room	Weighted reduction in impact sound pressure level ΔL_w (Impact sound insulation in laboratory) Sound absorption coefficient α_s ; Equivalent sound absorption area A ; Practical sound absorption coefficient α_p and weighted sound absorption coefficient α_w For sound barriers: single-number rating for sound absorption properties $DL_{\alpha,NRD}$ (Reverberation room)	SOP 4 (1668) EN-ISO 354 EN ISO 11654 EN 1793-1 EN 1793-3 SOP 6 (1059)
Laboratory measurement of noise from building equipment and building services	Sound pressure level for rating of noise from building services $L_{H,tot}$ and $L_{r,H}$	SIA 181 SOP 7 (1670)

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.

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

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