Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER

State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0614

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

SBB Swiss Federal Railways
Production Passenger Traffic
Testing Laboratory for Tests /
Climate chamber
Industriestrasse 153
4600 Olten

Head:	Dr. Ralf Hofer
Responsible for MS:	Christine Martin
Telephone:	+41 79 252 10 28
E-mail:	sales.production@sbb.ch
Internet:	Testing laboratories | SBB
Initial accreditation:	21.07.2015
Current accreditation:	21.07.2020 bis 20.07.2025
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 04.12.2023

Testing laboratory for climatic measurements on railway vehicles (temperatures, humidity, pressures, heat transfer, air quality, energy consumption and function tests with ice, snow, sun)

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)
Railway applications, air conditioning for urban and suburban rolling stock, for main line rolling stock and driver cabs, type tests	Air/surface temperatures Comfort: 0 to 40 °C, Engineering: -40 to 180°C Humidity: 10 to 95% Air speed: 0.015 to 1 m/s and 0 to 20 m/s Electrical power: 0 to 100 kW and 0 to 4000 VAC/VDC	SN EN 14750-2/-1 SN EN 13129-2/-1 invalid standard SN EN 13129 SN EN 14813-2/-1 UIC 553-1/ 553 VE UIC 651 VDV 181/182
Passenger coach ventilation, heating and air conditioning, type tests	Airflow: 42 to 4250 m3/h Air pressure: 0 to 5000 Pa Differential pressure: -1245 to 3735 Pa	SBB test procedure BBA 20088680 SBB test procedure BBA 20090421 SBB test procedure BBA 20090422 SBB test procedure BBA 20254642

1) Scope of accreditation type A (fix)
2) Scope of accreditation type B (flexible)
3) Scope of accreditation type C (flexible)

Definition of flexibilty see SAS Document 741

STS Directory

Accreditation number: STS 0614

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)**
Determination of thermal transmittance values (k value) of vehicles	Air/surface temperatures Comfort: 0 bis 40 °C, Engineering: -40 to 180°C Humidity: 10 to 95% Electrical power: 0 to 100 kW	SBB test procedure BBA 20091638
Thermal and humidity parameters incl. vehicle CO_2 concentration "track testing"	Air/surface temperatures Comfort: 0 to 40 °C, Engineering: -40 to 180°C Humidity: 10 to 95% CO_2 concentration: 0 to 5000 ppm Air pressure: 0 to 1100 hPa Differential pressure: -1245 to 3735 Pa Air speed: 0.015 to 1 m/s and 0 to 20 m/s Speed: 0 to 300 km/h	SBB test procedure BBA 20088594
Frost protection testing of passenger coach sanitation and cleaning facilities	Air/surface temperatures Comfort: 0 to 40 °C, Engineering: -40 to 180°C Humidity: 10 to 95%	UIC 563 SBB test procedure BBA 20088804
Environmental conditions, testing vehicles, components and systems under strong climate conditions, such as the effect of sun, humidity, ice and snow	Air/surface temperatures Comfort: 0 to 40 °C, Engineering: -40 to 180°C Humidity: 10 to 95% Pressure: 0 to 11 bar Force: 0 to 310 N	CEN/TR 16251; DIN SPEC 5509 SN EN 50125-1 SBB test procedure BBA 20088805
Determination of internal and external pressure and pressurisation and evaluation of the pressure comfort of the vehicles	Pressure: 0 to 1100 hPa Differential pressure: ±0000 Pa Speed: 0 to 300 km/h Air and surface temperatures: -40 to +180°C CO_2 concentration: 0 to 5000 ppm	UIC 660 UIC 779-11 SN EN 14067-5/AC SN EN 14752+A1 SBB test procedure BBA 20088809 SBB test procedure BBA 20088812

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

Abbreviation	**Signification**
SN EN	Edition suisse d'une norme européenne
UIC	Union internationale des chemins de fer
VDV	Association des entreprises de transport allemandes

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1) Scope of accreditation type A (fix)
2) Scope of accreditation type B (flexible)
3) Scope of accreditation type C (flexible)

Definition of flexibilty see SAS Document 741