



Accreditation number STS 301
Accreditation standard ISO/IEC 17025:2005

STS Directory

page 1 of 2

Testing laboratory for solar thermal collectors, solar thermal systems and their components

Institut für Solartechnik SPF HSR Hochschule für Technik Rapperswil Oberseestrasse 10 CH-8640 Rapperswil	Head: Responsible person for QA: Telephone: Telefax: E-Mail: Internet: First accreditation (d,m,y): Last accreditation (d,m,y): Updated version:	Prof. Matthias Rommel Dr. Andreas Bohren +41 55 222 48 21 +41 55 222 48 44 info@solarenergy.ch www.solarenergy.ch 20.04.2001 20.04.2006 www.sas.ch (accredited bodies)
--	--	---

Scope of accreditation in January 2010

Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, validated in-house test methods)
Solar thermal collectors (concentrating and non-concentrating): Glazed collectors	With artificial wind ²⁾ Assessment of: - Efficiency - Incidence angle modifier - Thermal capacity - Time constant - Pressure drop	ISO 9806-1 AS/NZS 2535.1:1999 (equivalent ISO 9806-1:1994) EN 12975-2, Test methods chap 6.1 + 6.3* EN 12975-1, General requirements* Procedure L220
Unglazed collectors	With artificial wind ²⁾ Assessment of: - Efficiency - Incidence angle modifier - Thermal capacity - Time constant - Pressure drop	ISO 9806-3 EN 12975-2, Test methods chap 6.2 + 6.3* EN 12975-1, General requirements* Procedure L220
Glazed and unglazed collectors	Without artificial wind ²⁾ Assessment of: - Efficiency	Procedure L220 Procedure „Wirkungsgradmessung ohne Wind“ (15.10.2005)



Accreditation number STS 301
Accreditation standard ISO/IEC 17025:2005

STS Directory

page 2 of 2

Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, validated in-house test methods)
Glazed and unglazed collectors	Assessment of: ²⁾ - Safety, durability and reliability - Stagnation temperature Combined load and rain test ²⁾ Impact resistance ²⁾	ISO 9806-2 EN 12975-2, Test methods chap 5 and annex C* EN 12975-1, General requirements* Procedure L240 AS/NZS 2712 Section 4 Appendix B, C, D, E Procedure „Kombinierter Belastungs- und Berechnungstest“ (05.01.2006), self validated test Test procedure “Impact” (11.03.09)
Thermal solar systems and components - Factory Made systems	Assessment of: ²⁾ - Safety, durability and reliability - System efficiency CSTG / DST method	EN 12976-1, General requirements Procedure L120 EN 12976-2, Test methods chap. 5.1, 5.2, 5.3, 5.4, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11 ISO 9459-2 (CSTG) ISO/DIS 9459-5 (DST)

Observaciones:

* corresponden a las siguientes normas

UNE-EN 12975-1 Sistemas solares térmicos y sus componentes, Captadores solares, parte 1: Requisitos generales

UNE-EN 12975-2 Sistemas solares térmicos y componentes, Captadores solares, parte 2: Métodos de ensayo

sin requisitos separados en los anexos del ZA.