

(1) The present document is a translation of the Scope of Accreditation nº 355/LE977, Rev. 8. "Thermal Solar Systems". In case of dispute, the valid is the Spanish version.

**SCOPE OF ACCREDITATION (1)**  
**FUNDACIÓN CENER-CIEMAT**  
**Thermal Solar Testing Laboratory**

Address (Navarra): Av. Ciudad de la Innovación, 7; 31621 Sarriguren (Navarra)

Address (Sevilla): Laboratorios de la Escuela Superior de Ingenieros. Edificio L1, Puerta Oeste (Azotea); Av. De los Descubrimientos, S/n; Isla de la Cartuja; 41092 Sevilla

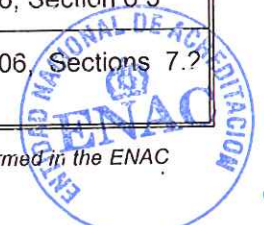
Is accredited by the **ENTIDAD NACIONAL DE ACREDITACIÓN**, according to the criteria collected in Standards UNE-EN ISO/IEC 17025: 2005 (CGA-ENAC-LEC), for the performance of the following tests:

**Thermal Solar Systems**

**Category 0 (Test in the permanent laboratory)**

**LABORATORY OF NAVARRA:**

PRODUCT/MATERIAL TO BE TESTED	TEST	STANDARD/TEST PROCEDURE
Solar thermal glazed collectors for heating of liquid with metallic absorber in steady and quasi-dynamic states	Internal pressure	UNE EN 12975-2:2006, Section 5.2.1 ISO 9806-2:1995 Section 5.1
	High temperature resistance	UNE EN 12975-2:2006, Section 5.3 ISO 9806-2:1995 Section 6 except 6.4
	Exposure	UNE EN 12975-2:2006, Section 5.4 ISO 9806-2:1995 Section 7
	External thermal shock	UNE EN 12975-2:2006, Section 5.5 ISO 9806-2:1995 Section 8
	Internal thermal shock	UNE EN 12975-2:2006, Section 5.6 ISO 9806-2:1995 Section 9
	Rain penetration	UNE EN 12975-2:2006, Section 5.7 ISO 9806-2:1995 Section 10
	Mechanical load	UNE EN 12975-2:2006, Section 5.9
	Impact resistance, according to method 2	UNE EN 12975-2:2006, Section 5.10
	Final inspection	UNE EN 12975-2:2006, Section 5.11 ISO 9806-2:1995 Section 13
	Thermal performance in steady state	UNE EN 12975-2:2006, Section 6.1 ISO 9806-1:1994
	Thermal performance in quasi-dynamic state	UNE EN 12975-2:2006, Section 6.3
	Labelling and Instructions for use	UNE EN 12975-1:2006, Sections 7.2 and 7.3



**LABORATORY OF SEVILLA:**

PRODUCT/MATERIAL TO BE TESTED	TEST	STANDARD/TEST PROCEDURE
Thermal Solar Systems (Prefabricated Systems)	Antifreeze protection Over temperature protection Pressure resistance Water contamination Lightning protection Safety equipment Labelling Thermal performance Reverse flow protection	UNE EN 12976-2:2006 Except Section 5.9 and 5.11
	Documentation for user	UNE EN 12976-1:2006 Section 4.6

