

CERTIFICATE OF REGULATION (EU) 2024/1103

The Thermo Lamina underfloor heating system is a patented laminated heater manufactured by **HERGA ENERGY SENAL, S.L.** at our own facilities.

A wide range of tests have been carried out at these facilities to ensure product quality and safety. These include resistance temperature tests under both ambient conditions and beneath various surfaces, as well as at different installation depths, to verify performance and dielectric insulation of the heater.

External bodies have certified both our operational control systems and our environmental and raw material recycling procedures. We also hold certifications regarding the performance and suitability of the raw materials used in our heaters, thanks to our patented manufacturing process for thermal films.

EU DECLARATION OF CONFORMITY

In accordance with Regulation (EU) 2024/1103 on eco-design requirements for local space heaters.

Manufacturer Information

Manufacturer Name: HERGA ENERGY SENAL S.L.
Full Address: Urbanización Los Conejos
Calle/DOS, No. 571A
30509 Molina de Segura
Murcia (Spain)
NIF/CIF: B73879371
Representative: Jose Francisco Hernández Gadea



Inscrita en el registro mercantil de Murcia- Hoja MU 86268, Tomo 3099, Folio 64 Inscripción 1ª CIF: B-73879371

Product Identification

Trade name: THERMO LAMINA

Product type: Electric underfloor heating system

Model(s): TL-1 to TL-28

Device class: Electric local space heater, as defined in Regulation (EU) 2024/1103, Article 2

Applicable regulations

This product has been assessed in accordance with the following EU legislative acts:

- Commission Regulation (EU) 2024/1103 of 18 April 2024
- Additionally, the product complies with:
- Directive 2014/35/EU (Low Voltage Directive)
- Directive 2014/30/EU (Electromagnetic Compatibility)
- Regulation (EU) 2017/1369 (Energy Labelling), where applicable
- Regulation (EC) No 1907/2006 (REACH), regarding applicable materials.

Harmonized standards and applied technical specifications

- EN 60335-1:2020 — General safety of household electrical appliances
- EN 60335-2-96:2004+A1:2010 — Particular requirements for underfloor heating
- EN 50559:2013 — Energy efficiency assessment of electric heaters
- EN 62233:2008 — Electromagnetic fields (human exposure)

Tests performed and technical documentation

Internal tests: Conducted in HERGA ENERGY SENAL's own laboratories

External certification: EQA (UNE – EN ISO 9001:2015, ISO 14001:2015, UNE 166002:2014)

Other laboratories: CETECOM

Material testing: UL – File E502245 in accordance with UL499 for heating appliances, certifying product safety for intended use.



Technical file includes:

- Energy efficiency test results
- Standby/off mode power consumption measurements
- Repairability and spare parts verification
- Installation, use, maintenance and recycling manuals
- Energy label and product datasheet

Information available on the WEB:

<https://hergaenergy.com/certificados/>

<https://hergaenergy.com/certificado-de-conformidad-con-el-r-ue-2024-1103/>

Technical Data – Thermo Lamina

Specification

Product Type

Model

Specific power

Installation coverage

Rated voltage

Film thickness

Compatible with programmable thermostat Yes

Detail

Electric underfloor heating (film heater)

Thermo Lamina

120 W/m²

80–90% of the usable floor area

230 V

160 microns

This file is kept at the manufacturer's headquarters and is available for submission to the competent authorities.

Key Benefits

- Low energy consumption with consistent performance: 120 W/m²
- Uniform, comfortable heat from the floor
- Clean, discreet installation with no maintenance
- Compatible with home automation and environmental sensors
- Manufactured in Spain with certified quality



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Declaration of repairability and availability of spare parts

- - Spare parts available for a minimum of 10 years
- - Replacement with standard tools without damaging the device
- - Free access to firmware for at least 10 years (if applicable)
- - Technical documentation accessible to repair professionals

Sustainability and Unlimited Lifespan

Thermo Lamina has no technical expiration date. Its operational lifespan is unlimited due to the absence of moving parts or mechanical wear. This results in:

- A drastic reduction of waste throughout the building's life cycle
- Lower energy consumption = smaller carbon footprint
- Avoidance of planned obsolescence → fewer replacements, less environmental impact.

Standby Mode Power Consumption (Psm)

Precise measurements confirm that standby power consumption comes solely from the external thermostat. The thermostats we offer consume **1.7 W at 230 V / 50 Hz**, staying **within the 3 W maximum limit** set by Regulation (EU) 2024/1103.

Seasonal Energy Efficiency (η_s)

- Complies with Regulation (EU) 2024/1103
- Estimated seasonal efficiency (η_s): $\geq 50\%$
- Minimum required for this category: 47.5%
- Typical installation: heated surfaces free from fixed or external obstacles

Options and Accessories

- Programmable digital thermostats
- Integrable smart home control panels



Final Declaration

This Declaration of Conformity is issued under the sole responsibility of the manufacturer, certifying that the product complies with all mandatory requirements of **Regulation (EU) 2024/1103** and other applicable legislation.

The product has undergone thorough quality control and safety testing to ensure compliance with relevant harmonized standards.

The manufacturer is committed to maintaining product conformity throughout its life cycle, ensuring the availability of technical support and spare parts.

This declaration also confirms that the product has been designed and manufactured in accordance with sustainability and energy efficiency principles, contributing to environmental protection.

Murcia, June 30, 2025



Jose Francisco Hernández Gadea
Herga Energy Senal, S.L.



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