 **ESS**

HEATING

INVISIBLE, EFFICIENT, SAFE





WHAT IS JESS

THE WARMTH THAT YOU CAN'T SEE, BUT YOU CAN FEEL.

JESS is the electric **underfloor heating system** developed by Ama Advanced Materials through the **Amatherm** division.

An intelligent and sustainable system that transforms every environment –indoor or outdoor– into a space of immediate thermal well-being and comfort.

Cutting-edge technology, fast installation, reduced consumption and absolute safety: JESS is the new way to experience heat, with **invisible design** and **limitless efficiency**.



WHY CHOOSE JESS

INNOVATION AND COMFORT IN EVERY DETAIL

- **SAFE** – Operates at low voltage ($\leq 50V$) with isolation transformer: ideal even in humid or critical environments.
- **PATENTED JOULE TECHNOLOGY** – Heat is generated directly in the screed or between floor surfaces, without dispersion.
- **QUICK AND NON-INVASIVE INSTALLATION** – Installs under the pavement, without complex masonry work.
- **PERFECT FOR OUTDOORS** – Prevents icing on ramps, driveways and parking lots.
- **GREEN AND QUIET** – Zero CO₂ emissions, reduced consumption and no electromagnetic smog.
- **RELIABLE TIME** – No maintenance, always ready to use.

With JESS, comfort becomes a **choice of energy intelligence and sustainability**.

APPLICATIONS

ONE SOLUTION, INFINITE POSSIBILITIES.

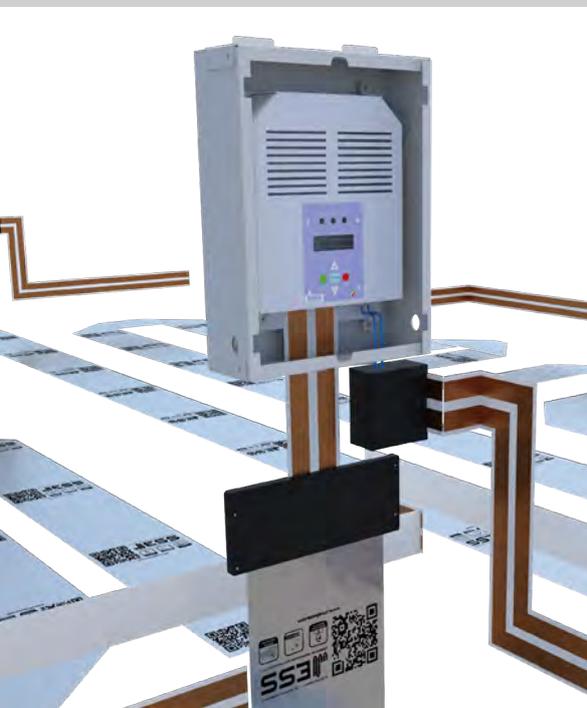
For indoor environments:

- Available in 4 **modular lengths** (20, 30, 40 and 50 metres) – width 20 cm.
- Ideal for **floor, wall or ceiling**, creating homogeneous, low-temperature heating surfaces.
- **Room-by-room adjustable temperature**, for maximum personalized comfort.

For outdoor spaces:

- **Prevents icing** on ramps, sidewalks and parking lots.
- **Active only when needed**, thanks to the intelligent control system.

With JESS, heat adapts to every context – from private homes to public spaces, from refined interiors to technical surfaces.



HOW IT WORKS

INVISIBLE TECHNOLOGY, VISIBLE EFFICIENCY.

The heart of JESS is a **patented thermal membrane**, composed of:

- a **thermally conductive** element,
- one or more **layers of armor**,
- a **protective film** made of plastic material.

The membrane is integrated into the **screed** or applied under the flooring, and connected to a **control unit** with a transformer and electronic management system.

THE RESULT?

A uniform, controlled and immediate heat – invisible to the eyes, but perceptible at the first step. JESS is the new standard of electric heating: invisible, efficient, safe.

Membrane	Max. power. (W)	Length (m)	Coverage*(m ²)
JESS20	600	20	8-16
JESS30	900	30	12-24
JESS40	1200	40	16-32
JESS50	1500	50	20-40

* Based on the energy class of the property.

JESS is designed in compliance with the most up-to-date European regulations:
EMC 2014/30/EU | EN 55014-1:2021/EN 55014-2:2021 | EN 61000-3-3:2013/A2:2021

AMATHERM

TECHNOLOGY FOR INTELLIGENT COMFORT

JESS was born from the experience of **Ama Advanced Materials**, a company specializing in high-performance materials and systems for insulation and living comfort.

With **Amatherm**, Ama Advanced Materials brings its research into the field of **electric radiant heating**, creating solutions that combine **well-being, efficiency and design**.





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