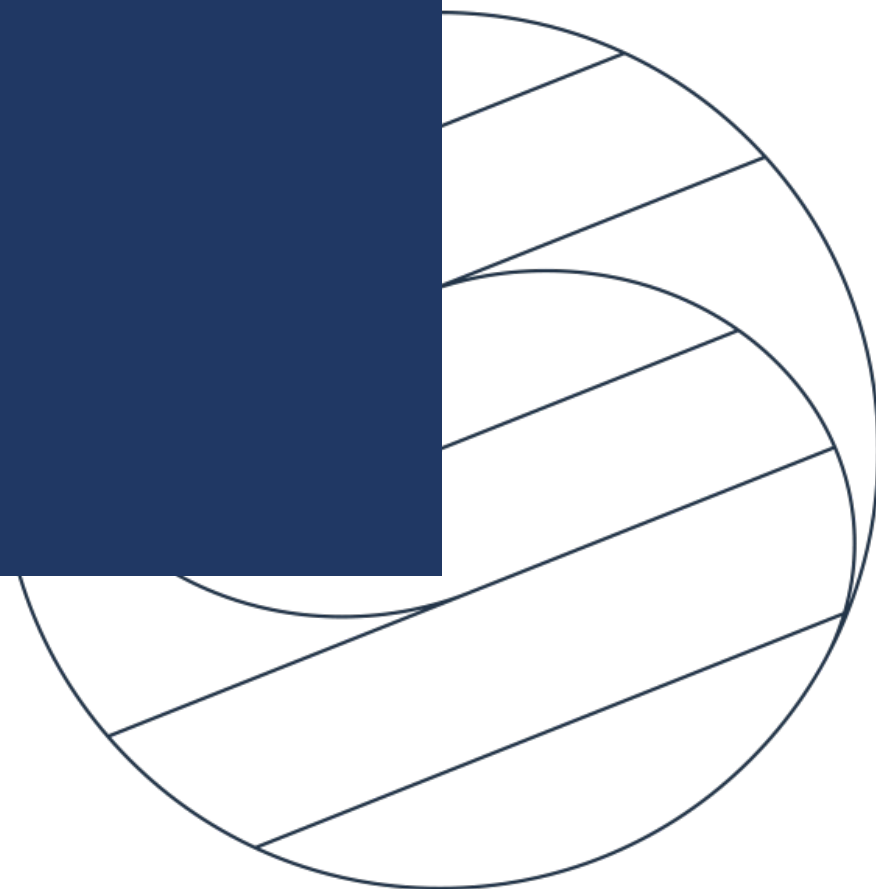


SILVADEC x ADEME

a key player
in our ecological transition

Soutenu
par



Wood composite Silvadec®

Our **Silvadec® wood composite** is a high-quality product with **superior properties**, the result of 20 years of industrial research and development. By manufacturing wood composite from **sustainably managed resources, sourced locally and responsibly**, the Silvadec group is **committed to prevent deforestation at both domestic and imported levels**.

A wood composite with unique properties :

- **Origine France Garantie (OFG) certified**
- Innovative: **patented technology**
- **Rot-proof**: resistant to termites and fungi
- **Durable**: impact-resistant design and 25-years guarantee
- **PEFC certified** (sustainable forest management)
- **60% recycled material**
- **100% recyclable on our production site**: we are able to recycle all our deck boards
- **Easy to use**: no chemical treatment required and slip-resistant

The industrial production system

We have designed our production system to have as low an environmental impact as possible: our products are manufactured by **low-temperature extrusion** and **the water used to cool the system circulates in a closed circuit**. It comes from a rainwater recovery tank installed on our main site.

Our efforts to implement a low-carbon energy management system have been rewarded with **ISO 50001** certification in July 2022. This certification comes on top of **ISO 14001** certification and validates the work undertaken by Silvadec's teams in identifying technical solutions to optimise our energy consumption.

In short, our ambition is to reduce our electricity consumption by 15% by 2023 and to manufacture a 100% recycled product by 2025.



ADEME

A continuous support over the years

The Silvadec group has received essential support from ADEME in setting up **an eco-responsible, low-carbon industrial facility.**

2003



Inaugural grant

Birth of an eco-responsible industrial facility
Amount: € 207,000

2005



Eco-conception

Amount : € 96.300

2013



Silvadec Fibres

Production unit of recycled and local wood flour
Amount: 189.420 €

2016



ORPLAST

(Objectif Recyclage PLASTique) – integration of recycled plastics
Amount: 172.682 €

2022



ORPLAST

Renewal
In progress

2025



HEULIAD ENVIRONNEMENT

Production unit of recycled plastics
In progress



***Going round in a circle –
that's our idea of progress!***

ZOOM OVER THE YEARS

2003 : the start of the industrial adventure, with already a sense of responsibility! !

Silvadec received its first grant following its launch in 2001, after having demonstrated its determination to set up an eco-responsible industrial facility. At the time, the co-founders already had the ambition of **incorporating wood and plastic of recycled origin** into the formulation of wood composite Silvadec®. And this was long before recycling became a fact of life: their approach was based on common sense.

2005 : the first steps towards eco-design

This second grant was awarded to help Silvadec to **optimise its wood composite formulation** to make it more efficient from three points of view: **economic, technical and environmental**.

The grant was used to provide funding for a **Life Cycle Assessment** (LCA) to establish an effective methodology and define the parameters for achieving an **environmental optimum**.

2013 : Silvadec Fibres, the intuition of the circular

In 2013, support from ADEME helped finance a project **at the heart of the Silvadec group's eco-industrial strategy : Silvadec Fibres, the production unit of the wood flour**.

This is a raw material production unit for Silvadec resulting from a partnership with the Josso sawmill, which specialises in the manufacture of wooden pallets. Silvadec Fibres converts Josso's sawmill off-cuts into wood flour. We use 2/3 of this secondary raw material in our composite products. This production unit was set up at a time when the concept of the circular economy was not yet self-evident, revealing **the avant-garde nature of Silvadec's industrial strategy**.

2016 : the integration of recycled plastic

For the first time in 2016, Silvadec launched a research and development project aimed at **integrating recycled HDPE as a substitute for the virgin HDPE** used to date in its formulation.

The grant aimed to study whether it would eventually be possible to incorporate a black grade of recycled HDPE without affecting the product's mechanical properties, in particular due to an increase in its moisture recovery.

HEULIAD environnement 2025 : Towards a 100% recycled and local wood composite thanks to this new recycled plastic manufacturing unit.