



# VIGILIS

## TREE SHELTERS

MANUFACTURER OF  
TRADITIONAL TREE  
SHELTERS &  
PLASTIC FREE, SOIL  
BIODEGRADABLE  
TREE SHELTERS



## Vigilis-Bio: The Future of Sustainable Forestry

Here at Vigilis Tree Shelters, **we envision a forestry industry free from plastic waste.**

In partnership with Biome Bioplastics, we have designed and manufactured the Vigilis-Bio Tree Shelter with one aim in mind: to create plastic-free and 100% soil biodegradable tree shelters.

Within 5 years we aim to supply only Vigilis-Bio Shelters.

It performs as well as a traditional shelter, but the unique materials are radically different and will naturally biodegrade over time. Meaning they will not need collecting, whilst providing a source of food for soil bacteria and microorganisms.



# VIGILIS BIO

PLASTIC FREE • SOIL BIODEGRADABLE • HEALTHY TREES

## Vigilis-Bio: A Truly Innovative Tree Shelter

The Vigilis-Bio Tree Shelter is made from a special **blend of bio-based derivatives (potatoes, wood and corn)** and a custom biodegradable polymer.

Over 750 different material blends have been tested and simulated for mechanical properties, weathering and biodegradation. The resulting plastic-free combination has been chosen to provide the necessary functional performance for a minimum of 5 years of tree protection. Following this, it may take a further 2 years for the shelter to be fully absorbed and incorporated into the natural environment.

All that remains after this period is biomass, water and minerals that feed soil bacteria and microbes.

Vigilis-Bio is supported by a 3rd party letter of opinion from the world-leading OWS testing lab.



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## Vigilis-Bio: Functional Performance

Function	Standard	Vigilis-Bio
Tree Growth Protection	✓	✓
Plastic Free		✓
Soil Biodegradable		✓
Compostable		✓
Requires Collection	✓	

We have over **75,000 Vigilis-Bio shelters in global field based trials** in the UK, USA and Europe, and are pleased to announce that it is performing on par with traditional tree shelters.

Vigilis-Bio does not require industrial composting conditions to biodegrade.

Performs like a traditional shelter. You just don't need to collect it!



# VIGILIS BIO

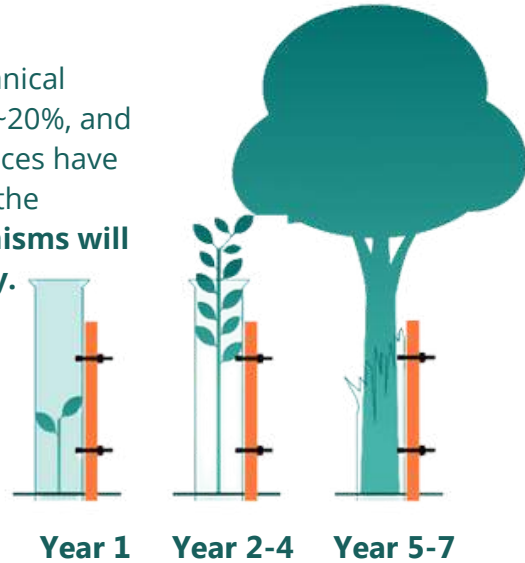
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## Vigilis-Bio: Biodegradation

The tree shelters biodegrade **leaving only biomass, water, and minerals in the soil. No toxic residues. No microplastics.** Through extensive accelerated weather testing, our shelters have been designed to "age" in weather conditions optimised for the UK's climate.

From the moment the shelters are installed, the sunlight and rain begin to break polymer chains.

After approximately 5 years, the mechanical strength of the shelter has reduced to ~20%, and it will begin to break up. Once small pieces have broken off and come into contact with the surrounding environment, **microorganisms will feed off it, to break it down naturally.**



The fragments of Vigilis-Bio Tree Shelters biodegrade in the soil after 5-7 years in situ.



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# VIGILIS TREE SHELTERS

**Vigilis is a brand you can trust:** we have worked on Woodland Creations, Highways Agency Projects, restoration and landscaping projects as well as large-scale forestry projects across the globe.



We have produced over 5 million Tree Shelters for projects in the UK, USA and Europe.

**Find out more and delve into our case study portfolio.**

[www.vigilistreeshelters.com](http://www.vigilistreeshelters.com)



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# VIGILIS TREE SHELTERS

## The Traditional Vigilis Range

### Standard & Vented Vigilis Tree Shelters

- Manufactured from UV-stabilised & photodegradable polypropylene with a twin-wall construction
- Flared rim & lazer lines
- Standard sizes (0.6m, 0.75m, 1.2m, 1.5m)
- Diameter: 76mm - 110mm
- Releaseable cable ties
- Vented: Acclimatisation to external conditions (windy/exposed areas)



### Tree Shelter Benefits

- Increased survival rates & protection
- Fast establishment with enhanced growth (microclimate)

### Wraps

- Used for hedging & open planting - easy installation
- Better plant environment than Spirals
- Expands as the tree grows



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# LET'S TALK TREE SHELTERS



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Manufacturer of Plastic Free, Soil Biodegradable  
Tree Shelters

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