



Agrotexiles



Biodegradables



Geotextiles



Specialist



Wildlife



Living Walls & Roofs

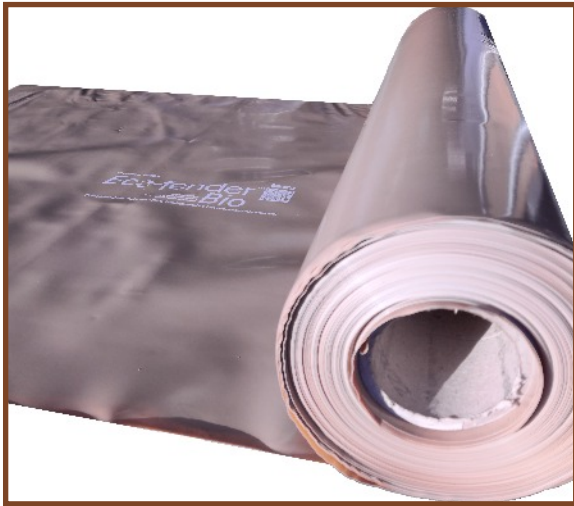


Accessories

Protecting Wildlife

Eco-fender™ Biodegradable Temporary & Semi-Permanent Newt Panels & Fences *Bio*

Plant Based Bio-Polymer | Fully Biodegradable | Environmentally Friendly



Ecofender™ Bio Newt Fences

Ecofender™ Bio is the world's first and only range of biodegradable, but highly durable, newt fencing. The plant based biopolymer sheets are used to temporarily exclude, or contain, newts, frogs, snakes and small wildlife - protecting them from entering hazardous areas such as construction sites.

It is an unfortunate reality that conventional plastic temporary newt fencing material can be a major contributor to micro plastics on construction sites. It is evident that on many sites temporary newt fences are not properly maintained or removed, leading to them crumbling and polluting the local environment.

Ecofender™ Bio is made from a GM free plant based biopolymer, which is fully soil biodegradable, offering the highest environmental credentials. Ecofender™ Bio is also a sustainable solution, with a significantly lower carbon footprint than competing products.

Ecofender™ Bio Newt Barrier sheets can be fixed to a simple post and rail timber fence, and the bottom edge entrenched to provide an impenetrable barrier. While the smooth surfaces are difficult for reptiles and amphibians to climb.

Ecofender™ Bio has specifically been designed to resist weather damage, providing protection throughout works, depending on conditions and the timescale of the project.

Features/Benefits:

- World's First Biodegradable Newt Fence
- Protects small wildlife from entering hazardous areas
- Tough for reptiles to climb
- Weather Resistant
- Sustainable Solution
- Carbon Negative/Climate Positive
- Fully Soil Biodegradable
- Made from Plant Based Biopolymer



Application Categories: Wildlife Protection

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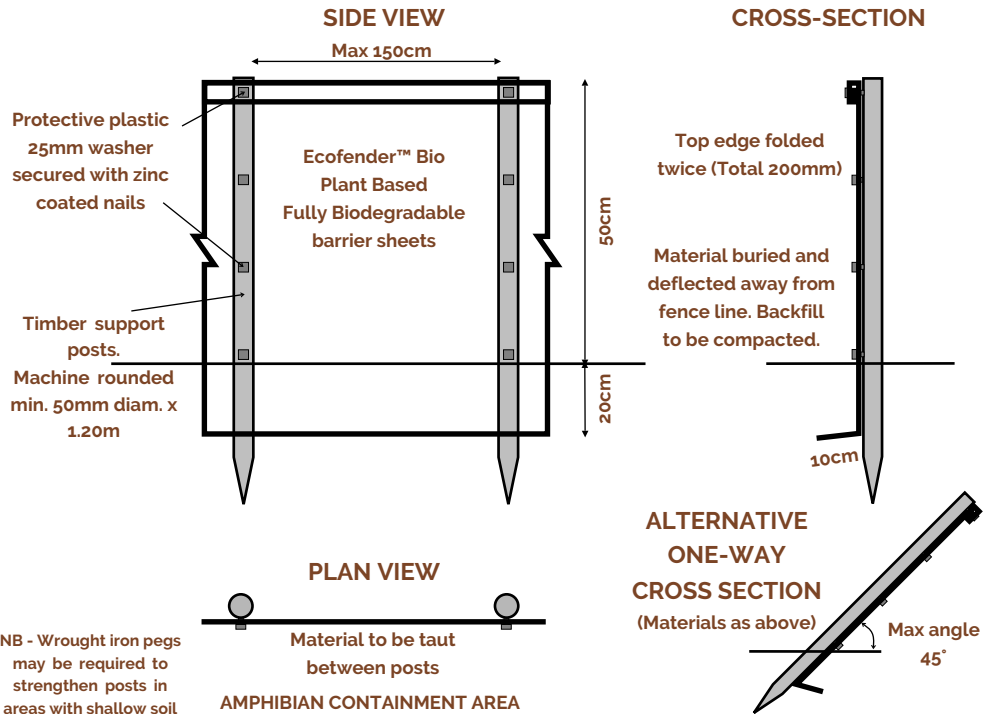
Guidance

We suggest maximum 1.50m post spacing

We suggest minimum 4 nails + washers per post



Feature	Ecofender™ Bio Newt Fences
Material	Biodegradable bio-polymer derived from GM free sugarcane
Biodegradability	2 to 3 years depending on conditions
Thickness (micron)	250
Carbon Negative Field to Door	Yes
Biodegradable to ASTM D5988-18 Aerobic Biodegradation of Plastic Materials in Soil - for in-situ field conditions	Yes
Biodegradable to ASTM D5511-18 Anaerobic Biodegradation of Plastic Materials Under High-Solids Anaerobic-Digestion Conditions - for landfill conditions	Yes
UV Stabilised	Yes
Colour	Brown
Weight	23kg per roll approx
Roll Size	1.00m x 100.00m



NB - Wrought iron pegs may be required to strengthen posts in areas with shallow soil



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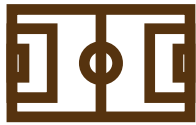
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0.71*
hectares
of land

PRODUCES



50
tonnes of
sugarcane

PRODUCES



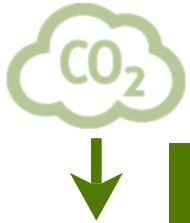
4800
litres of
bio-ethanol

PRODUCES



1.93
tonnes of
Ecofender™ Bio
biopolymer

*Based on Wembley pitch at 105 x 68m



**Carbon Negative
Climate Positive**

From field to your store
every 1 tonne of
Ecofender™ Bio removes
over 2 tonnes of CO₂¹

¹ Approx 2.1 tonnes of CO₂ is removed from the atmosphere per tonne of Ecofender™ Bio made and transported to end user this has been calculated from the LCA Study from cradle to gate conducted by ACV Brazil 2017, and independently verified by the Carbon Trust, with subsequent transport and conversion based on European Chemical Transportation Association and British Plastics Federation guidelines.

² Tested to:

ASTM D5988-18 Aerobic Biodegradation of Plastic Materials in Soil - for in-situ field conditions

ASTM D5511-18 Anaerobic Biodegradation of Plastic Materials Under High-Solids Anaerobic-Digestion Conditions - for landfill conditions

Application Categories: Wildlife Protection

✓ Plant Based Biopolymer

Ecofender™ Bio has been specifically developed to offer the highest environmental credentials, and is made from a special plant based biopolymer, derived from sugarcane, which is biodegradable and non-toxic.

Crucially this means that it does not contain unsustainable conventional plastics, obtained from fossil fuels, that can pollute the environment with micro plastics.

✓ Sustainable Solution

The sugarcane used in Ecofender™ Bio is GM free and a renewable and sustainable crop that is responsibly grown on degraded land, with a robust code of practice to protect the environment and workers.

At each stage of the manufacturing process emphasis is placed on minimising the impact on the environment with waste by-products such as pulp, ash and plant liquids being reused as fertiliser and to create renewable energy.

✓ Carbon Negative/Climate Positive

Sugarcane actively captures CO₂ from the atmosphere through photosynthesis, while at the same time releasing oxygen, making this material not just green, but proactively green.

Ecofender™ Bio goes beyond being carbon neutral, removing more carbon dioxide from the atmosphere than is emitted from production to delivery to end user.

From field to your door every 1 tonne of Ecofender™ Bio removes over 2 tonnes of CO₂¹, and for an area of land equivalent to Wembley pitch (105 x 68m) nearly 2 tonnes of the biopolymer is produced from each sugarcane harvest.

✓ Fully Biodegradable In-Situ²

Left in contact with the soil Ecofender™ Bio slowly decomposes biologically through the combined action of micro organisms (bacteria and fungi), temperature and humidity, breaking down into nutrient rich compost to leave no future hazards for wildlife and maintenance, without the need to remove and commercially compost them.

Beware some products that claim to be "biodegradable" are only biodegradable based on industrial composting standards, which do not reflect natural conditions. The biopolymer used in Ecofender™ Bio has been tested to ASTM D5988, which simulates field conditions, and ASTM D5511, which simulates landfill conditions, for more realistic results.

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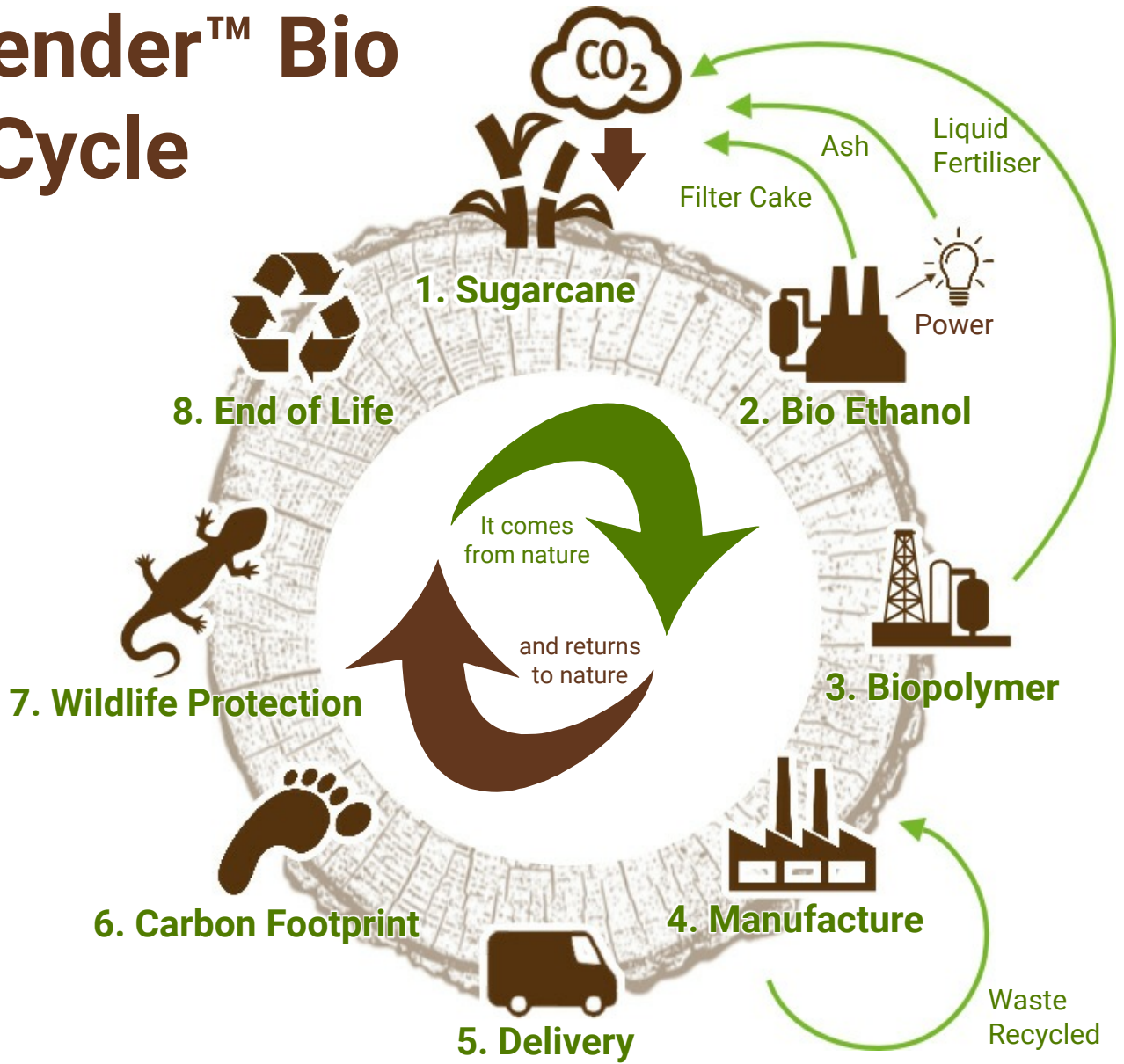


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Ecofender™ Bio Life Cycle



1. CO₂ metabolised to produce sucrose

- Renewable and sustainable GM free crop
- Responsibly grown on degraded land
- Robust code of practice to protect environment and labour

2. Juice fermented to make bio ethanol

- Waste used to generate renewable energy and compost

3. Bio ethanol dehydrated and polymerised to produce biopolymer

- Liquid waste recycled as fertiliser

4. Biopolymer extruded and cut to produce Ecofender™ Bio

- Efficient conversion
- Off cuts recycled

5. Compact and lightweight

- Able to fit 5,000m of Ecofender™ Bio Newt Fence per standard pallet

6. Carbon Negative = Climate Positive

- From field to your store every 1 tonne of Ecofender™ Bio removes over 2 tonnes of CO₂

7. Versatile design

- Easy to handle and install

8. Protecting the environment

- Left in-situ will biodegrade to enrich the soil
- If disposed of in landfill it will also fully biodegrade
- Can be recovered and recycled

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