

HERPETOSURE® WATER VOLE FENCING

AWARD WINNING HERPETOSURE®

The UK's leading ecological fencing range



DURABLE

Vandal Resistant, Impact Resistant and Fire Retardant.



FAST

10 Times Faster to Install than other Newt Fencing Products.



GUARANTEED LIFE SPAN

UV Stability Guarantees of over 10 years.



SUSTAINABLE

Produces Zero Product Waste.



EXTENSIVE STOCK

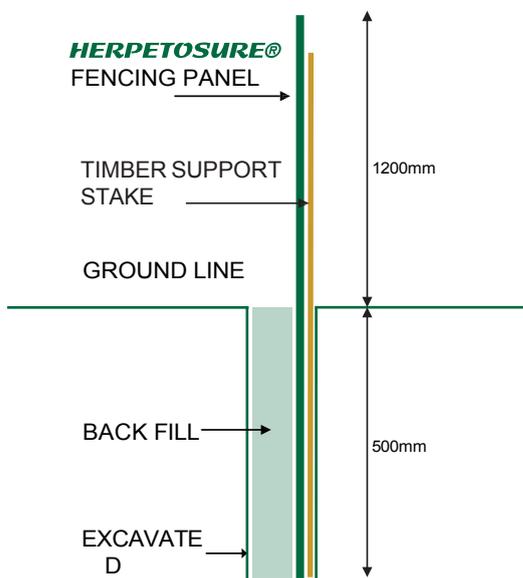
Thousands of Metres Ready for Dispatch

HERPETOSURE® FENCING INFORMATION



Patent Application No: 0425617.8

NOT TO SCALE



Water Vole Fencing

Species: Water Vole / Newt / Toad

Panel Dimensions: 1700 X 1500 X 4mm

Fitted Measurements

500mm vertically below ground, 1200mm vertically above ground and supported with Timber Stakes

Technical Data (Approx)

Density	Kg/m ³	965
Tensile Strength (Mpa)	N/mm ²	22.0
Elongation at Break	%	280
Flexural Yield Strength (Mpa)	N/mm ²	33.0
Flexural Modulus (Mpa)	N/mm ²	950
Unnotched Charpy Impact Strength	KJ/m ²	no break
Thermal Conductivity	W/ (m.k.)	0.52
Linear Thermal Expansion	mm/m/oc	0.210
Surface Spread of Flame		Class 3





Herpetosure Fencing Trench Installation Methodology

1. Overview

Three Shires Limited can install Herpetosure newt/reptile exclusion fencing using a specialist trench-based method, or hire out the trench attachment to suitably experienced ecological contractors (enquiries@threeshores.com). This system enables rapid installation without traditional excavation, reducing labour, spoil disposal and habitat disturbance.

2. Suitability and Limitations

- Ground conditions must be free from large roots, heavy compaction or obstructions.
- Sufficient access required for an agricultural tractor along the fence line.
- Most efficient in open field or grassland; less suitable for hedgerows, woodland edges or urban sites.

If unsuitable ground or restricted access is found, revert to conventional trench-fit methods.

3. Pre-Installation - Requirements

Underground Services:

Check proposed fence line against service drawings; confirm and mark all services before work.

Ecological Checks:

Inspect fence alignment for badger setts, rabbit burrows, amphibians/reptiles and nesting birds (March-August) Checks by CIEEM ecologist or trained installer.

Vegetation Clearance:

Two-stage cut – (1) cut to approx. 200 mm and inspect; (2) reduce to ground level before installation.

4. Pre-Installation - Checks

Check for underground services before installation. Installation depths vary by fence type:

- Newt / Slow Worm: 300mm
- Reptile: 225mm
- Snake: 300mm
- Water Vole: 500mm
- One-Way: 300mm

Inspect the fence line for mammals, amphibians, reptiles, and nesting birds (March–August) before excavation.

Where vegetation is tall, reduce in two stages:

- *Stage 1:* Cut to 200mm for inspection (by a qualified CIEEM ecologist or installer).
- *Stage 2:* After inspection, cut to ground level.
- Place excavated soil in front of trench for backfilling

5. Trench Excavation

- Max trench width: 200mm
- Methods: excavator with trenching bucket, chain trencher, or hand digging
- Place excavated soil in front of trench for backfilling

6. Panel Placement & Securing

- Place panels in the back of trench with 50mm overlap.
- If panels have a lipped top edge, face lip outward to prevent re-entry into construction area.
- Stabilise panels with a small amount of backfill before fixing.
- Drill pilot holes and secure overlaps with 16–18mm rivets, top to bottom:
 - Lipped panels: first rivet through lip, rest evenly spaced.
 - Non-lipped panels: rivets evenly spaced.
 - Rivet minimums: 3 (One Way, Newt/Slow Worm, Reptile); 6 (Snake, Water Vole).
- For specifications with timber stake supports, place stakes inside fence and fix to panels with timber screws:
 - Water Vole: 1.5m centres
 - Snake: 3m centres
 - Reptile: optional, 3m centres depending on ground conditions

7. Backfilling

- Backfill trench by excavator or hand.
- Compact soil to support fence and prevent movement.

8. Safety & Environmental Considerations

- Do not leave open trenches overnight:
 - Prevents animals from becoming trapped.