



Suppliers of ACO Wildlife products



Amphibian Guide Fence LEP 100



ACO Wildlife Products

The ACO approach to creating products for wildlife mitigation looks at putting wildlife protection at the core of any infrastructure design.

Many of the products from the ACO range can be 'hard-landscaped' into the design at the project outset, or can be retro-fitted to existing infrastructure to provide robust, long-term wildlife protection.

At wildlifefencing.co.uk we believe that the ACO product range builds on our reputation as the leading supplier of wildlife mitigation products and helps us to provide a wider choice of options for sustainable wildlife protection.



Amphibians & roads

Amphibians spend much of their time in sheltered, dry environments but during the spring mating season, seek water in which to spawn.

Where amphibian populations exist near roads, this can lead these creatures to venture out on to the tarmac putting them at risk of being run over by vehicles. Come winter, they may also make the return journey back to dry land putting them at risk once more.

On particularly busy roads, this can have a huge impact on amphibian populations in the area.

ACO Amphibian Guide Fence

The ACO Amphibian Guide Fence system provides a permanent, hard landscaped protection system for amphibians such as great crested newts, reptiles or other wildlife.

This system is designed for creating a one way fence system where earth is backfilled up to the top edge at the back of the panels to create a step in the landscape that cannot be breached by amphibians or other wildlife species in one direction. This makes it ideal for installing on road projects or similar where it is necessary to prevent amphibian traffic on a permanent basis with a system that compliments the landscape.

Each Guide Fence Panel incorporates a top lip and one half way down the panel face to ensure maximum amphibian protection.

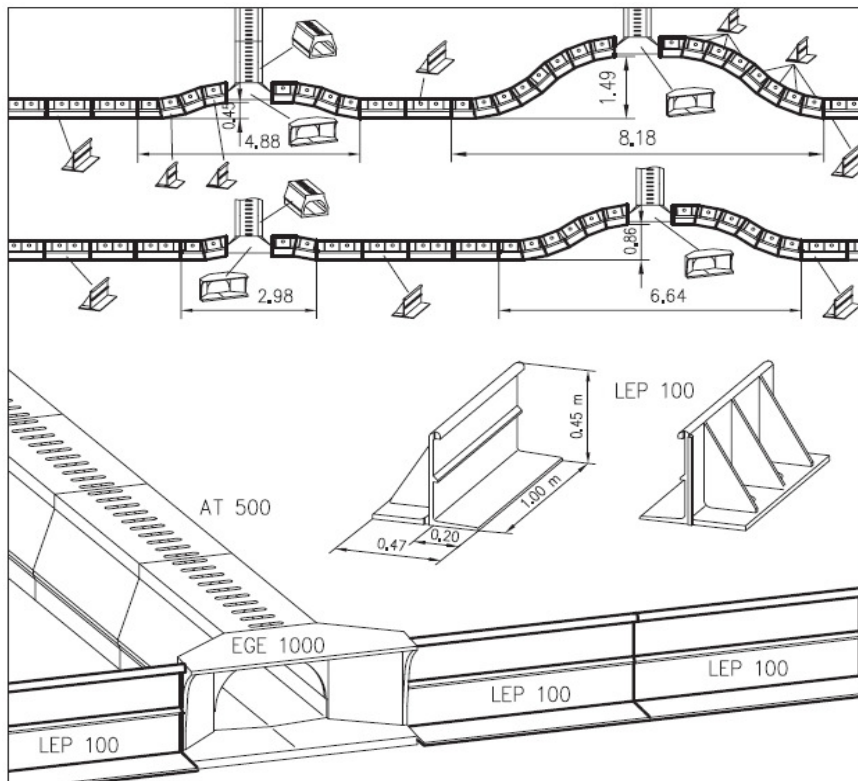
The Guide Fence system can also be installed as a permanent unobtrusive landscape feature to prevent vehicular access for traffic control or for security measures by creating a 450mm high vertical step in the landscape.



Modular system

The Amphibian Guide Fence forms part of a modular system of components. This includes other fence sections to accommodate internal & external curves, as well as sections that allow installation across changes in gradient.

The systems is also designed to install up to other ACO products such as the ACO Climate Tunnel for providing a safe passage for amphibians across roads, or the ACO Stop Channel amphibian proof road crossing. The Guide Fence acts as a routing system to direct amphibians towards a tunnel entrance or other safe habitat.



The standard straight section units give 1m of installed length, whilst the curved and cambered elements that accommodate curves and gradient changes give an installed length of 0.5m. Utilising all these components enables installation across most surfaces and terrains.

The base plate of each component not only provides strength and stability of the installed system but also suppresses vegetation growth close to the amphibian barrier where this might provide an amphibian bridge if not managed. The rear section of the base plate also incorporates holes that allow for drainage, or to help provide a key if bedding the unit down on concrete or mortar.

Technical data

System element

LEP 100	Straight element
LEP 100 I	Inside curve element
LEP 100 A	Outside curve element
LEP 100 F	Dropper element
LEP 100 S	Riser element

Dimensions

Installed length LEP 100	= 1000mm
Installed length LEP 100 I, A, F, A	= 1000mm
Installed height	= 500mm
Installed width	= 470mm
Contact surface	= 200mm

Weights

Straight element LEP 100 45kg (approx)

Material

Polymer concrete, characterised by

- High compressive strength and flexural strength
- High chemical resistance
- Water penetration depth = 0mm
- No reinforcement

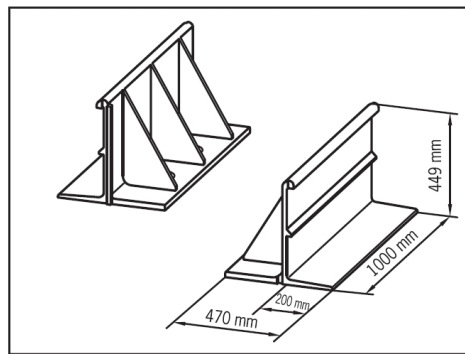
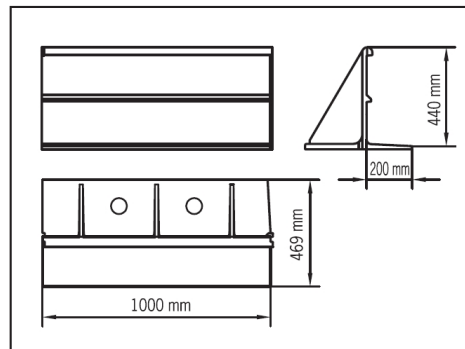
Stability of shape

The elements are inherently stable in shape. Minimal thermal expansion coefficients permit precise installation without expansion joints.

Specifications

The Guide Fence components have integral drainage holes in the reverse side of the base plate as well as vertical drainage provided by the butt joints between panels. Geo-textile can be applied at the back of the joins if there is a risk of soil wash erosion through the joins.

With correct installation with good backfill soil material, the guide fence structure should be capable of withstanding a moving load of 5.0 kN/m². There is no need for any additional anchoring or securing of the structure in installations on embankments up to 40°.



Installation

Installation should normally be made by siting the Guide Fence units on a pre-prepared, compacted hardcore sub-base that offers good drainage, using a standard bedding mix if necessary for levelling. Sections can then simply be butted up against each other, engaging the matching contours of the butt joints. Backfill material is then loaded up to the top of the panel at the rear, using material with good drainage properties.

The guide fence can also be used as a free-standing amphibian fence without the backfill, making it a viable option for installing across hard-standing surfaces where traditional 'trenched-in' newt fencing presents a problem.