



BRUSHWOOD FASCINES

Product Brochure

Sustainable revetments sourced from
coppiced woodlands.

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Salix



Brushwood fascines

Brushwood fascines are a centuries old traditional technique, harvested from sustainably managed coppiced woodlands, either from Chestnut, Hazel or Willow. The branches are bundled together to form a linear revetment. The rough surface nature of fascines can help slow the flow and dissipate energy, providing erosion protection, trapping sediment whilst vegetation establishes.

They have several applications such as narrowing over widened watercourses to improve and concentrate flows or placed under pre-established coir rolls in deep water so that the wetland plants within the rolls are at the correct water depth.

Fascines are an ideal nature-based solution for accreting sediment in intertidal zones and restoring saltmarsh habitat.

Individual fascines can be combined to cover a larger area, creating a brushwood mattress revetment. This structure is very effective for trapping fine sediment, often used in intertidal environments.





Brushwood fascines



Vegetation establishing amongst brushwood fascines



Brushwood fascines installed above a rock mattress





Brushwood Fascines are a low carbon, environmentally sensitive bioengineering solution.

Natural revetment & erosion control protection

Brushwood fascines provide erosion control across a wide range of waterbodies from canals, streams, rivers, saltmarsh and lake shorelines. When buried beneath sediment or submerged in anaerobic conditions, fascines can form a long term revetment with vegetation establishment providing additional stability and habitat.

Environmental benefits

Brushwood fascines are fully biodegradable, natural products. Our brushwood fascines are manufactured in the UK from sustainable coppiced woodlands.

Improved Biodiversity

Native vegetation can establish within and around the brushwood fascines providing excellent habitat for small mammals, birds, amphibians and invertebrates.

Carbon Sequestration

Sediment trapped within and between the brushwood structure fix large amounts of organic carbon. In particular in intertidal and saltmarsh applications.

Improved Water Quality

The brushwood fascines help to form marginal barriers and deposition zones in river ecosystems, which help to improve water quality. The brushwood fascine acts as a filter, trapping sediment. Plants that establish over time also help to improve water quality through filtration and bioremediation.





Specification

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Our Brushwood fascines are manufactured in the UK, from sustainable coppiced woodlands. Various lengths and diameters can be considered, depending on the site requirements.

The following are standard stock items:

0.3m diameter by 2m long fascine: 6kg per linear metre.

Other sizes can be made to order e.g. up to 6m lengths for intertidal projects.

Twine:

Each fascine is securely tied with polypropylene twine to ensure longevity in storage and delivery to prevent fascines falling apart. These twines can be removed in-situ if required and replaced with biodegradable twine such as coir.





Applications



1. Supporting Living Revetments

Brushwood fascines can be used to raise pre-established coir rolls and pallets to appropriate water levels, or placed in front of coir revetments to absorb wave energy.

The rough surface of the fascines can dissipate and slow the flow in a watercourse, aiding vegetation establishment

2. Saltmarsh Restoration

Brushwood fascines help to slow flow of water over saltmarsh, aiding sediment deposition and retention. This in turn encourages saltmarsh vegetation to re-establish. The fascines allow water levels to rise and recede unimpeded, overall retaining the critical saltmarsh habitat.

3. Intertidal

Brushwood fascines and mattress can be installed to trap and stabilise sediments in intertidal zones, allowing native vegetation to colonise.

4. River Restoration

Brushwood is often used as a river restoration tool, to narrow channels and concentrate flow, whilst providing diverse habitat for invertebrates and juvenile fish. This simple and effective technique is used on many UK rivers such as chalk streams.

**Highest quality
products for use in
river restoration**





Brushwood fascines

Brushwood fascines installed above rock roll mattress where the potential for severe scour is reduced



Brushwood fascines staked in place to accrete sediment

Accretion of sediment over brushwood





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