

Salix Aqualog



Salix 

Building with Nature

Description

Aqualogs are a novel soft engineering solution that trap sediment, improve water quality and allow a durable soft engineering approach to bank reinstatement.

Aqualogs are made from Xylit. Xylit fibre is a by-product of brown coal production in Germany, which would ordinarily be landfilled. This natural woody fibre exists in large quantities and needs no additional energy in its production.

Xylit fibre is extremely robust and elastic, it is able to withstand mechanical stress and biological degradation.

Embankment protection for rivers, ponds and lakes

Aqualogs are durable, long term soft engineered bank protection.

The Aqualogs are supplied unplanted but can promote sustainable plant growth, retaining sediments and diffusing wave energy to reduce erosion.

Aqualogs also act as an effective control for sediment, particularly in places vulnerable to erosion and water run off.

Surface roughness breaks sheet flows and encourages silt accretion and naturalisation.



Aqualogs providing robust green revetment replacing hard engineering



Rapidly naturalising river banks

Comparison of Aqualog fibre rolls to other materials:

	Durability	Colonisation Ability	Weight
Brushwood fascines	2 years	average	4 g/m
Coconut coir logs	5 years	high	8 kg/m
Aqualogs	>30 years	very high	20kg/m
Rock Rolls	>100 years	high	50 kg/m

Applications

- River Bank Erosion Control: Bioengineering Solutions
- Wetland & Reedbed Establishment
- Habitat Ponds
- River Restoration
- Silt management



Soft bank protection - establishing well

Specification

Advantages

Technical advantages

- high tensile strength
- >30 years design life

Ecological and biological advantages

- sustainably sourced biochar from Europe
- soft engineering approach using natural material
- high surface area promotes microbial activity
- designed to support silt control and accretion
- protective qualities allow plant establishment
- proven to absorb phosphate



Aqualogs creating a stable bank that will rapidly vegetate naturally

Specification

Net Material:
High strength plastic

Net Opening:
20mm

Stuffing

Xylit biochar fibre:
Natural carbon fibres

Standard Sizes

2m x 0.2m
Weight 40 kg

Other details

Connection via tape or cable tie
Fixed to pilings
Delivery via pallet

Version 1.1

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