

ECOCRIB CASE STUDY

John Reilly Engineering Ltd, Alton

Failing timber crib wall replacement due to rot.

Before



After



LOCATION: Alton, Hampshire

MAIN CONTRACTOR: John Reilly Engineering Ltd

ECOCRIB SYSTEM: Soil Nailing with EcoCrib Face

MAX. RETAINED HEIGHT: 5.2m

FACE AREA: 295 m²

PLASTIC WASTE DIVERTED FROM LANDFILL: 21 tonnes



PROJECT IN FULL

The Challenge

In 2007 a new housing scheme was built in Alton, Hampshire. This required several retaining walls to allow the houses to be built. The system chosen by the developer was a timber crib system which was designed and built to last upwards of 40 years.

The walls were retaining back gardens and the cut embankment along the main access road into the development.

As of 2018 the timber used to build the walls began to rot and fail. The access road retaining wall had failed and had to be replaced. EcoCrib was chosen as the system to replace the rotting timber. EcoCrib profiles are considerably more durable than treated timber but hold many of the environmental benefits.

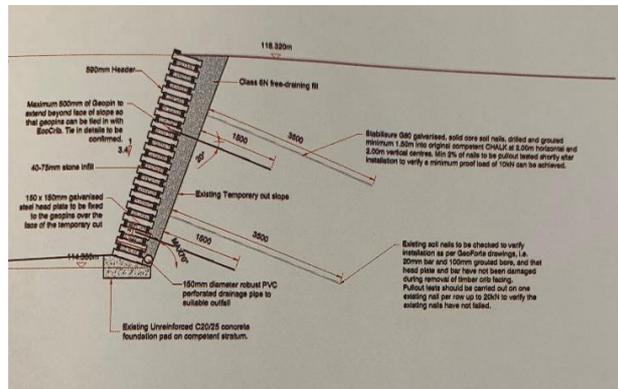
The Solution

A total of 90 metres of failing timber walling was removed down to foundation level. The existing soil nails were left in place and further soil pins installed. The soil pins were then attached within the EcoCrib wall during the reconstruction. The design allowed the wall to be a narrow in section so the existing embankment and foot path could be left in place. The reconstruction took three weeks.

Other sections of rotting timber walls will likely have to be removed in the future. With a design life of more than 120 years, EcoCrib will not rot as timber does.

Sustainable retaining solution. Designed, supplied and installed by PC Construction, certified by the BBA and HAPAS in 2012.

EcoCrib profiles are manufactured entirely from recycled UK plastic (bottle tops, car bumpers etc) with any wastage or surplus material re-processed to form new EcoCrib profiles. EcoCrib can be recycled when it reaches the end of its useful life. When considering solutions on developments of all kinds, the lifetime cost means EcoCrib is the more efficient choice.



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