

MMG WILLOW WEIPS

for the fabrication of fascine erosion control mattresses

Fascine matting is a proven system which has been widely used for the control of erosion in rivers, canals and estuaries. They have been installed successfully by the Dutch for hundreds of years and are still one of the most cost effective and environmentally acceptable methods of erosion control in use today.



Specification

The willow branches used for the fabrication of the weips which make up the fascine mattresses are normally tied together with polypropylene twine in 100 mm diameter bundles. They can be produced with greater diameters in lengths up to a maximum of 15 m to suit the specific needs of the site.

Where the risk of re-growth needs to be eliminated we can cut the willow branches well in advance of the project to ensure they are dead before these are made into weips.

Production

All the willow used by MMG is harvested from plantations and as a renewable resource they therefore have no detrimental effect on the environment.



▲ *Weips tied together to form the fascine mattress grid.*



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Fascine erosion control mattresses



In-situ fascine mattress fabrication for sand dune regeneration at Tynemouth.



▲ *A traditional fascine mattress construction along the banks of a tidal section of the River Great Ouse.*



▲ *Geolon fabric with loops to which weips are secured.*

Fascine grid tied on to Geolon fabric prior to filling with brushwood.



Fascine Mattresses

Fascine mattresses installed in rivers and tidal estuaries are usually made in a location at or near to the project site and floated into position, in dry land applications they are constructed in-situ. MMG also supply the brushwood bundles and geotextiles for their fabrication. When a Geolon PP-L type of geotextile is used, it functions as a filter fabric to aid the retention of fines behind or below the fascine, it also provides a certain stiffness during fabrication, positioning and installation. Geolon PP-L fabrics are geotextiles which have connection loops woven at 0.5 m centres into the fabric of the material that are used for tying the weips to the basal fabric. MMG weips have been used in both wet and dry erosion control projects.

Our Technical Services Department can advise on the application of fascine mattresses and other products for the restoration of sand dunes, protection of sandbanks, and the control of erosion in rivers, estuaries and coastal defence schemes.



▲ *Sinking a fascine mattress using rock placed with a crane*

MMG's advice and design suggestions do not constitute an indemnified design.

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