

# REED BED PURIFICATION SYSTEMS

GREEN TECHNOLOGY FROM MMG

## REED BED WASTE WATER PURIFICATION SYSTEMS



Today Consultants and Developers will often seek to exploit the benefits of energy efficient and environmentally friendly systems in their construction projects.

**Using reed bed purification for the on site treatment of wastewater is one way this can be achieved.**

Reed beds can be very important where the logistics of connecting to a main sewer is found to be very expensive or impractical as in the case of isolated communities or motorway service stations.

**On site wastewater processing offers attractive benefits for the Developers and Operators.**

Reed bed purification systems provide:-

- Low energy costs**
- Low running costs**
- Low maintenance costs**
- Low adverse environmental impact**

**MMG have over 22 years experience in environmental engineering and a proven record of synergy with Consultants, Developers and Contractors.**

We are acknowledged leaders in these bioengineering techniques and can provide design guidance, the most appropriate materials, vigorous nursery grown aquatic plants and help with the construction of reed bed wastewater treatment systems.

**We offer cost effective solutions to keep reception lagoons, reed bed ponds and balancing/recycling reservoirs watertight and functional throughout their design life.**

**MMG provides:-**

- Geomembranes • Liner Protection**
- Geotextiles • A Range of Indigenous Plants**
- Biological Erosion Control Mats**
- Bank Stabilisation Geosynthetics**
- Biological Filters • Gabions**
- Grass/Concrete Access Road Blocks**
- Pre-Grown Coir Fibre Plant Modules**



**Dedicated To The Environment**

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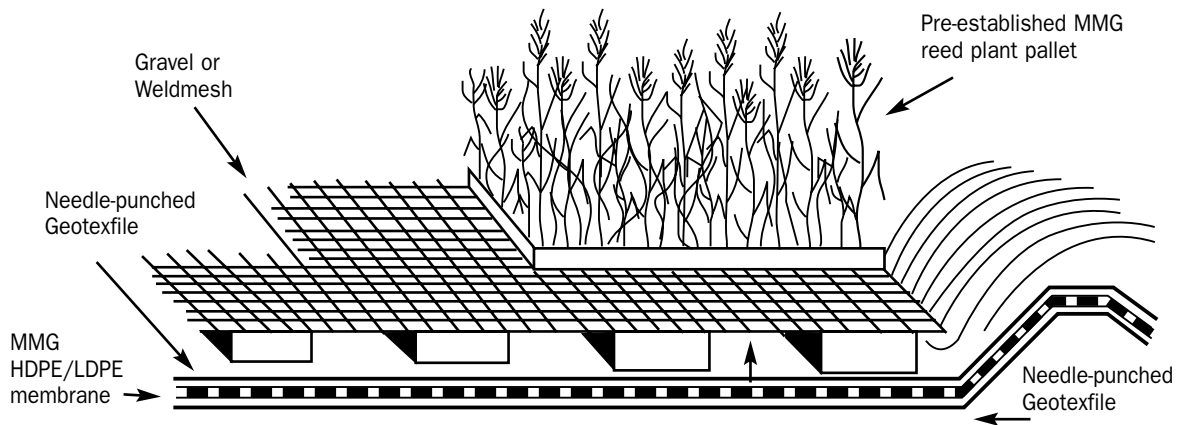
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The capacity of certain species of aquatic vegetation to remove contaminants from wastewater is well documented. MMG provide all the products for reed bed wastewater purification systems. For rapid installation and to provide immediate effectiveness *Phragmites communis* (Common reed) and *Schoenoplectus lacustris* (Common club rush) can be supplied pre-grown in MMG coir fibre plant pallets.

Some MMG products used in reed bed projects		
Product	Application	Material
MMG Pallets	Filtration	Available as prevegetated Coir Fibre modules.
Nicoflex	Pond liner	Reinforced polyethylene geomembrane
Nicotarp	Pond liner	LDPE coated geomembrane
Nicofelt	Liner protection	Needle-punched protector

Aquatic Plants held in stock	
• Acorus calamus	Sweet Flag
• Carex riparia	Greater Pond Sedge
• Carex acutiformis	Lesser Pond Sedge
• Iris pseudacorus	Yellow Iris
• Phalaris arundinacea	Reed Canary Grass
• Typha angustifolia	Reed Mace
• Typha latifolia	Reed Mace
• Phragmites australis	Common Reed
• Mentha aquatica	Mint
• Glyceria maxima	Reed Sweet Grass
• Scirpus lacustris	Common Club Rush
• Juncus effusus	Rushes
• Lythrum salicaria	Purple Loosestrife
• Sparganium erectum	Bur-Reed

A Typical cross section



**MMG offer design suggestions for turn-key or sub-contracted projects.**

We provide all of the synthetic materials for reed bed construction.

**We provide biodegradable and natural construction components from renewable resources.**

We supply nursery grown wetland reed plants for filtration and wastewater polishing.

**MMG Green Systems ensures that the essential 'working vegetation' that is pre-grown in our coir fibre products is healthy, vigorous and able to establish quickly into rock, gravel or other medium within the reed bed.**

Get immediate information on the whole range of MMG products from [www.mmgces.co.uk](http://www.mmgces.co.uk)

**Dedicated To The Environment**

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