



Erosion Protection Systems Pty Ltd (EPS)

is an internationally recognised company specialising in the supply and installation of grout filled revetment mattress products for erosion control and flood repair works. With 30 years of experience in this field, we offer a history of knowledge and engineering expertise unmatched by our competitors, both in Australia and overseas. The Australian manufactured products provide a cost effective alternative to the traditional methods that include stone pitching, sand bags, gabions, rock mattresses, reinforced concrete and rip rap protection.

In comparison to the above methods of flood protection, the fabric formed mattress products offer significant cost savings and are readily installed under water. The unparalleled speed of installation allows for the fast tracking of large-scale projects, thus providing additional costs savings for project managers and clients alike. The products can also be coloured to blend in with their natural environment.

The revetment mattress is a double-layered fabric that acts as a formwork to allow the injection of a high strength grout between the layers. The resulting finished product acts as a barrier to prevent erosion that may otherwise occur on a number of engineering structures, including:

- Wharf and Harbour embankments
- Bridge abutments and road shoulder protection
- Culverts and spillways
- Seawalls and river linings
- Embankment and lake linings
- Sludge lagoons and aeration ponds
- Boat ramps and hovercraft pads

The Company

Established in Australia in 1995, Erosion Protection

Systems Pty Ltd is fast gaining a reputation as a company able to provide instant qualified support for clients concerned with issues of erosion and stability. We are in the business of providing engineered solutions as well as the supply and installation of grout filled mattress systems for erosion control and flood protection.



Working mainly in the construction, port, mining, and oil and gas industries, we have a healthy relationship with Government Departments, Project Managers, Engineering Consultants, and Contractors throughout the world.

Our Director, Mark Roberts (right) has a degree in Civil Engineering combined with more than 30 years' experience in the field of erosion control using grouted



mattress technology, having successfully designed, project-managed and installed substantial projects in the USA, China, United Arab Emirates, Thailand, Indonesia, Malaysia, Brunei, Saipan Island, Guam, New Zealand, as well as extensively throughout Australia.

Our installation team and support staff readily provide a wealth of knowledge and experience to our customers, with each staff member averaging more than 20 years in this field. A wealth of experience in design and installation that no other Australian company can lay claim to.

Using only the highest quality polymer based yarns available internationally.

Our products are manufactured, here in Australia, to ISO 9001:2000 quality management systems procedures.

Our installation procedures are governed by AS2990 quality systems to ensure that the finished product is of the highest standard. The wealth of experience our team provides goes a long way towards ensuring the best possible finished product.

We are fully aware of the need to stay ahead of our competitors in relation to development of new products, as well as testing the parameters of our existing systems. Our research is carried out by approved NATA registered testing facilities, with model tank testing high on the agenda to prove the effectiveness of our products for specific project requirements.

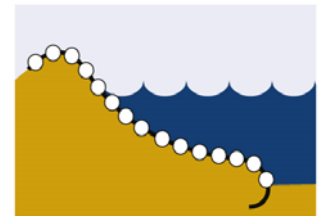
Filter Matt



The Filter Matt is a double-layered mattress with each layer joined to the other at fixed intervals to form filter areas. These areas remain free of grout and allow the transfer of water through the matt. This eliminates the build-up of hydrostatic pressures that would otherwise cause instability to the mattress and the structure it is protecting. The spacing of these filter areas can be varied to increase the thickness and weight of the inflated mattress. The external forces expected for each particular project will determine what thickness of mattress is required. This style of mattress is ideal for:

- bridge abutments
- culverts
- spillways
- Lake lining
- wharf and harbour protection
- Dish drains and major channels
- Road shoulder protection

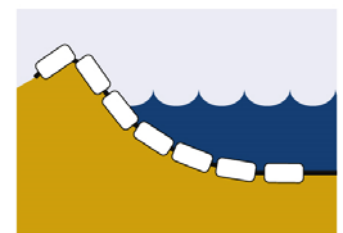
Filter Matt - cross section



Flexible Block Matt



Flexible Block Matt - cross section



The Flexible Block Matt is also a double-layered fabric constructed with each layer joined to the other in areas that act as hinges, forming the boundaries of rectangular blocks that are inflated with grout. These hinges provide flexibility to the system and also act to relieve any hydrostatic pressures that may build up behind the mattress. This matt can be reinforced with steel or Polymer rope inserted through each block for pre-cast lifting, or to extend the life to an already permanent solution. This style of mattress is ideal for:

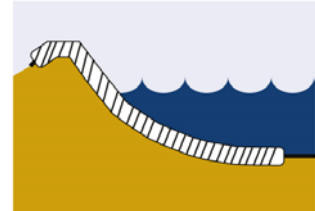
- Areas where settlement is expected
- Sea-wall toe protection
- Under-sea cable protection
- Spillways

The Uniform Matt



The Uniform Matt comprises a double-layered mattress where the two layers are connected via a vast array of internal restraining ties. As well as providing internal fibre reinforcement for the grout that is pumped between the layers, the length of these ties can be modified to determine the final thickness of the inflated mattress. The product provides a smooth watertight finish with a lower coefficient of friction, and can also be used in trafficable areas.

The Uniform Matt - cross section



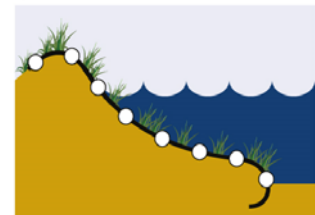
This style of mattress is ideal for:

- Water reservoirs
- Channels and dish drains
- Spillways
- Boat ramps

The Grass Matt



Grass Matt - cross section



Grass Matt is designed to allow vegetation to grow through the mattress to camouflage the product to create a more natural appearance. The mattress consists of tubular woven fabric sections that are filled with grout to create a square grid pattern. The strands of thread that assist with retaining the soil in place behind the matt until the vegetation germinates. Once established, the mattress is locked in place, creating a bond with the growth that protrudes through the matt.



Contact us

For an obligation free quote and design advice on your particular project, please contact us through the following avenues:

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