

# PROPEX Pyramattress

Engineered Mattress  
System for Erosion Control



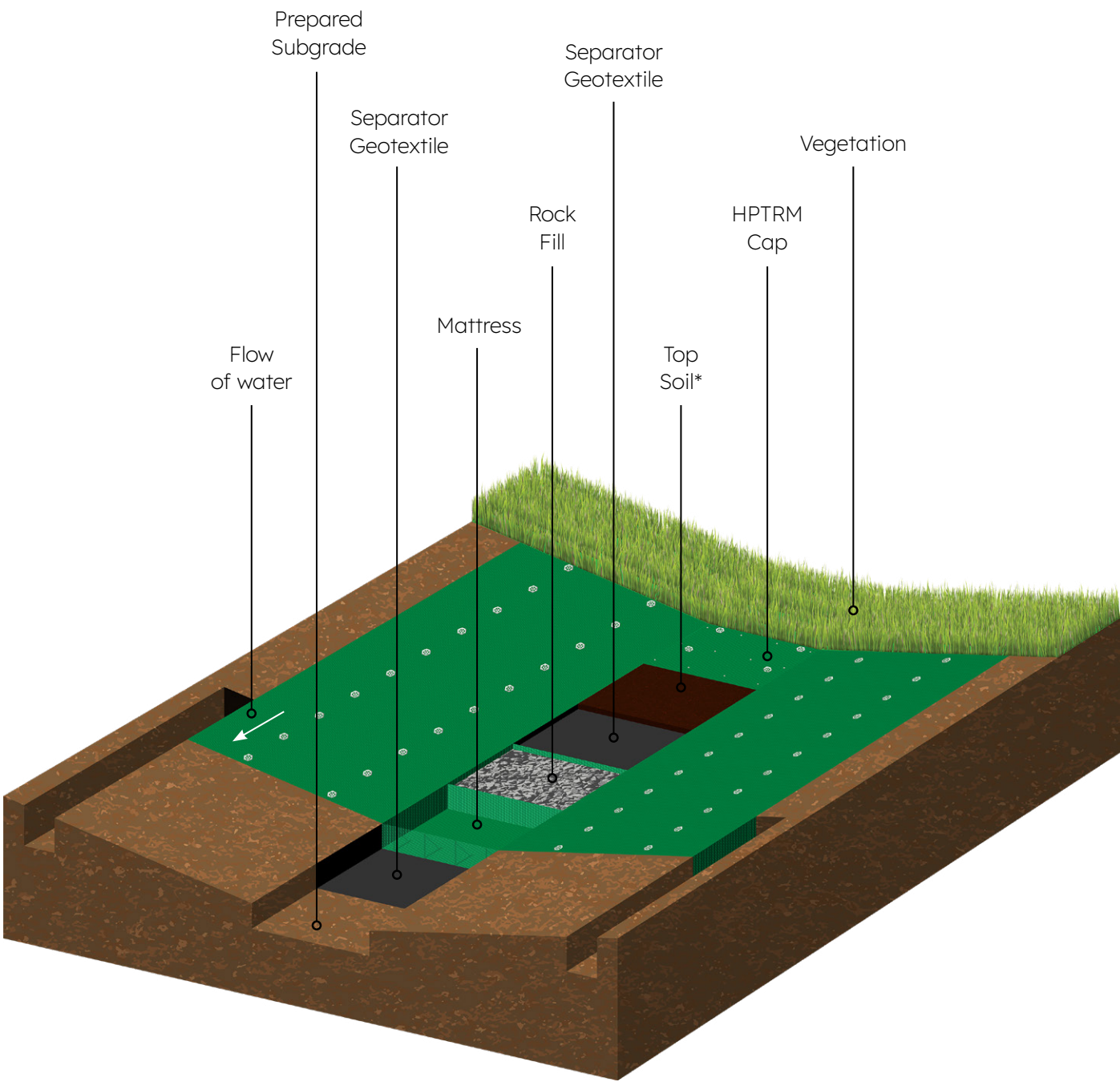


The **PROPEX**<sup>®</sup> Pyramattress Engineered Mattress System is an erosion control solution designed to resist potential scour and erosion caused by the constant flow of water or high hydraulic stresses.



The system utilizes the durability and erosion resistance of **PROPEX Pyramat 75 High Performance Turf Reinforcement Mat (HPTRM)** to construct a geosynthetic/soil/rock composite for protection of channels, slopes, and spillways.

The patented **PROPEX** Pyramattress system offers a low carbon alternative to conventional hard armoring solutions, such as reno mattresses, rock riprap, and concrete mats. Unlike these technologies, **PROPEX** Pyramattress components are corrosion resistant and promote vegetation, allowing for an increased design life that is environmentally friendly.



\* Project dependent



# FEATURES AND BENEFITS

## Design and Performance

- Geosynthetic composite design allows for smaller rock-fill size, for improved water flow over traditional solutions
- Smaller void space allows for reduced erosion and higher performance
- Produces composite internal structure to provide immediate erosion protection upon installation
- Components are environmentally inert and not susceptible to corrosion
- Components are stabilized against degradation, allowing for an increased design life
- Custom designed to fit each unique landscape
- Provides permanent erosion protection for up to 75 years
- Highly UV stabilized for applications with little or no vegetation
- Combines the superior erosion control protection of **PROPEX** Pyramat with the exceptional hydraulic and soil retention properties of **MIRAFI**®
- Can be combined with other Propex Engineered Earth Solutions such as **PROPEX**® Armormax to optimize design

## Environmental

- Yields a vegetated solution that is more aesthetically pleasing than traditional hard armoring solutions
- Filters sediment and pollutants to improve water quality
- Encourages infiltration of water back into the ground water table
- Reduces erosion and reinforces vegetation to meet Low Impact Design (LID) criteria

## Cost Savings

- System is easily transported making it ideal for sites that are difficult to access
- Units are deployed faster than conventional methods and can be filled using machinery
- Compact design makes shipping costs more effective than traditional hard armoring solutions



## APPLICATIONS

- Steepened Channels and spillways
- Pipe outlets
- Swales and low flow channels
- Arid environments
- Storm Water Drainage Systems
- Steep and Moderate Slopes



### **About Solmax**

Solmax is a world leader in sustainable construction solutions, for civil and environmental infrastructure. Its pioneering products separate, contain, filter, drain and reinforce essential applications in a more sustainable way – making the world a better place.

The company was founded in 1981, and has grown through the acquisition of GSE, TenCate Geosynthetics and Propex. It is now the largest geosynthetics company in the world, empowered by more than 2,000 talented people. Solmax is headquartered in the province of Quebec, Canada, with subsidiaries and operations across the globe.

### **Uncompromised quality**

Our products are manufactured to strict international quality standards. All our products are tested and verified at our dedicated and comprehensive laboratories which maintain numerous accreditations. We offer our partners a wide scope of testing according to published standards to ensure products delivered to sites meet specified quality requirements.

# Let's build infrastructure better



Solmax is not a design or engineering professional and has not performed any such design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation, or specification.

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