

# ACEFormer™

## PRODUCT

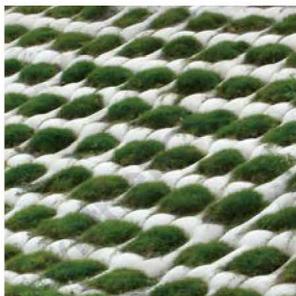
ACEFormer™ is the registered trademark of ACE Geosynthetics for all its geotextile mattress products. It is generally a soft and flexible formwork or mattress formed by two layers of high strength PP and/or PET woven geotextile. The geotextile is able to accommodate different landforms, and provide a formwork to construct a surface protection structure. With cement mortar as the filling material, the ACEFormer™ system provides an effective shield and medium to against erosion, and to reduce the wave energy and flow velocity on the applied surface.

**There are six basic types of ACEFormer™. Each has its designed functionalities for different conditions and applications:**



### Filter Point Type

Provides filter points to reduce extra water pressure beneath the geotextile formwork, in order to improve structural stability for surface protection.



### Vegetation Type

Provides surface protection to against erosion and at the same time enables vegetation growth in the system for a better appearance.



### Pipe Type

Provides strip filters and space to form long tubular structure with cement mortar; remarkable performance in reducing the water pressure caused by wave.



### L-Type

Provides a 2500 cm<sup>2</sup> coverage of bank protection units; each unit remains functional even if the connections among them are damaged by extreme external force; connections can be reinforced by steel bar or cable.



### T-Type

Provides a 5000 cm<sup>2</sup> coverage of bank protection units (larger than the L-Type) for application in special or extreme conditions; the overall stability can further be enhanced by reinforcement whenever necessary.



### Uniform Section Type

Provides a continuous protective layer with uniform thickness in the range of 20 to 50 cm; can prevent leaching and cause less hydraulic resistance than other types.



# APPLICATION

ACEFormer™ can be applied to the following for erosion control and surface protection:

## 1. Coastal Protection

- Dyke Armor Layer.
- Breakwater Armor Layer.
- Submarine pipeline protection.

## 2. River and Channel Protection

- River Bed/Canal Lining.
- Riverbank Surface.
- Pier/Abutment protection.

## 3. Slope Protection

- Side slope.
- Collapsed slope.
- Embankment slope.

## Real Case



ACEFormer™ is applied in a channel broadening project as bank protection at both sides of the channel. The main purpose is to prevent the channel from erosion. The application of ACEFormer™ not only reduces the flow velocity of water, but also enables vegetation growth along the channel for a more pleasant appearance than cement finishing. The easy and rapid installation of ACEFormer™ helps the project to complete within schedule with high effectiveness.

# WHY ACEFormer™

## Key Benefits:

- Easy installation.
- Applicable in various landform.
- Non removal of formwork.
- Cost-effective.
- Low environmental impact.

## Key Features:

- Light weight and flexible formwork.
- High strength and durable material.
- Stable structural system.



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