

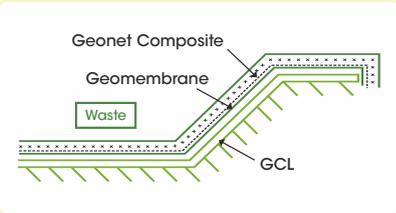
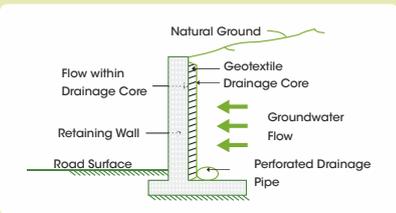
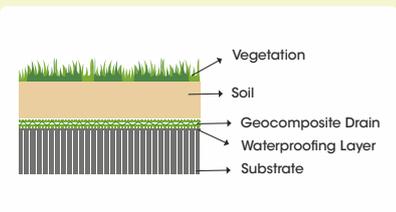
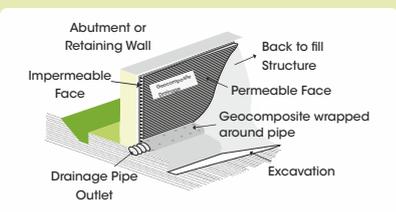
**Jeevan**  
Ecotex  
Sustainable Weaves

EcoNet

EcoNet is a geosynthetic material like a mesh structure which consists of overlapping sets of ribs at a permanent angle (60°- 90°) to create equal holes of 10 – 200mm for in-plane drainage of liquids or gases. The apertures are diamond shaped and are also known as Ecospacers.

Vegetation Geotextiles are a textured three dimensional bi-planar core and are made from (HDPE) for enhanced flow under high loading.

## Key Applications

Illustration	Application	Functions
 <p>The diagram shows a cross-section of a landfill. From top to bottom, the layers are: Waste, Geonet Composite (a mesh structure), Geomembrane (a thin impermeable layer), and GCL (Geosynthetic Clay Liner). Arrows indicate the path of leachate through the Geonet Composite and Geomembrane layers.</p>	<p>Landfill</p>	<p>Seperation and Drainage Reduces the Gravel Requirement</p>
 <p>The diagram shows a cross-section of a bridge abutment. From top to bottom, the layers are: Natural Ground, Geotextile, Drainage Core, Retaining Wall, Road Surface, and Perforated Drainage Pipe. Arrows indicate the path of groundwater flow through the Drainage Core and into the Perforated Drainage Pipe.</p>	<p>Bridge Abutment of Railways and Roadways</p>	<p>Seperation and Drainage</p>
 <p>The diagram shows a cross-section of a terrace garden. From top to bottom, the layers are: Vegetation, Soil, Geocomposite Drain, Waterproofing Layer, and Substrate. Arrows indicate the path of water through the Geocomposite Drain and into the Substrate.</p>	<p>Landscaping of terrace garden</p>	<p>Seperation and Drainage</p>
 <p>The diagram shows a cross-section of a retaining wall. From top to bottom, the layers are: Abutment or Retaining Wall, Impermeable Face, Back to fill Structure, Permeable Face, Geocomposite wrapped around pipe, Drainage Pipe Outlet, and Excavation. Arrows indicate the path of water through the Permeable Face and into the Drainage Pipe Outlet.</p>	<p>Behind Retaining Wall</p>	<p>Seperation and Drainage</p>

# Functions

With its multifunctional structure, EcoNets are widely preferred in the construction industry globally



## Drainage

Typically, EcoNet products are used in all applications that require drainage or collection of gas and leachates (mining and landfill) and filtering the sediments in these liquids.



## Erosion Control

EcoNets are used for erosion control where the ribs act as small check dams to slow down the surface runoff, and drainage layers where the water flows along the EcoNet because of large thickness. They are used at road construction as a surface course for both rehabilitation and new construction.



EcoNet



EcoNet composite on both side non woven

### Design Parameter

Thickness	4mm onwards
Width	Upto 2 mtr, 5 mtr, 7 mtr, 8 mtr and 12 mtr

## Common uses of EcoNet



As a layer to drain off water behind retaining walls



As a blanket for drainage beneath the surcharge fill and building foundation

# Design Properties

- ✔ Wide width tensile strength
- ✔ Apparent opening size (aos)
- ✔ Permeability
- ✔ CBR puncture resistance
- ✔ Grab tensile strength & elongation

## Benefits



### Durability

Econet is made of three dimensional networks of rigid polymers. They are made of high density polyethylene and has high compressive strength, resistant to plant roots and chemicals. Hence they have high durability.



### Provides filtration-drainage

Because the core of Econet with its unique tri-dimension structure can bear higher compressing load in construction, it provides good water conductivity. Horizontal drainage of water increases up to 3 times compared to conventional methods.



### Environment Friendly

Reduces natural filter material requirement by half.

## About Us

Jeevan Ecotex is a leading manufacturer of technical textile with state-of-the-art manufacturing facilities at multiple locations. It is an **ISO 9001: 2015 certified company**, providing customised solutions.

## Why Jeevan Ecotex

We are uniquely placed as the only major nonwoven player with in-house R&D capabilities and multiple manufacturing units in Maharashtra, India. Other advantages are

- ✔ Strong brand association with reputed clients
- ✔ Continuous online monitoring of production
- ✔ Products customized as per requirements
- ✔ Cost-effective environment-friendly manufacturing
- ✔ Fast turnaround times

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