Infrastructure Reinforcement Industrial Co.
GEO NATPET SPECIALITIES

MULTIDISCIPLINARY AND TECHNICAL SALES TEAM ACTIVE IN INTERNATIONAL MARKETS

CALCULATIONS & DESIGN SUPPORT FOR ALL OUR PRODUCTS
INSTALLATION GUIDELINES FOR EACH APPLICATION

CASE STUDIES OF RELEVANT JOBSITES

PRODUCERS OF STANDARD OR CUSTOMIZED DRAINAGE PRODUCTS IN ACCORDANCE WITH INTERNATIONAL QUALITY CERTIFICATIONS

ISO 9001:2015 - BUREAU VERITAS
IGS: INTERNATIONAL GEOSYNTHETICS SOCIETY
AASHTO - NTPEP - USA
PRODUCT PORTFOLIO

- Excellent Customer Service
- Innovative Partnerships with Customer Partners
- Global Supply Solutions
- Continuous Product Innovation
- A wide Range of PP Staple fibre and Geosynthetics Solutions
- Technical expertise and Support

**PP STAPLE FIBER**

Geo Natpet, is a leading worldwide Manufacturer of Polypropylene Staple Fibre and Non woven Geotextile

We supply product to the largest Companies in USA, Europe & Asia

**NON WOVEN GEOTEXTILE-NW RANGE**

NW
Needle Punched Non woven Geotextile
For Separation and Filtration

NW is a range of needle punched and thermally bonded geotextiles that offer the highest level of engineering performance and quality standards. The NW range is used in various applications including site access roads, hard standings, road and railways, drainage blankets, car parks and large piping projects.

**NON WOVEN GEOTEXTILE-SNW RANGE**

SNW
Needle Punched non-woven Geotextile for separation, Filtration and Protection

SNW are needle punched specially bonded geotextile designed to offer outstanding performance at a lower thickness compared to traditional protection geotextiles. The principal functions of SNW are protection, separation and filtration.

Specially engineered SNW product types with UV additives are available for geobags for coastal or riverbank protection and other applications.
Erosion Control
In erosion control, the geotextile protects soil surface from the tractive forces of coming water or wind and rainfall erosion.

Filtration
The use of geotextiles in filter applications is probably the oldest, most widely known, and most used function of geotextiles. The geotextile is used to prevent fine soil particles from moving with the water flow normal to the plane.

Protection
A geotextile can be used as a protective layer against mechanical damage during installation and after the completion of a particular construction project. It will help prevent the puncturing of geomembranes used in constructions such as tunnels, landfills or reservoirs.

Drainage
When functioning as a drain, a geotextile acts as a conduit for the movement of liquids or gasses in the plane of the geotextile. Relatively thick non-woven geotextiles are the products most commonly used. Selection should be based on permeability, which is the capacity for in-plane flow.

Stress relief
The geotextile provides stress-relieving interlayer between the existing pavement and the overlay that reduces and retards reflective cracks under certain conditions. It also acts as a moisture barrier to prevent surface water from entering the pavement structure.

Reinforcement
The geotextile interacts with soil through friction or adhesion forces to resist tensile or shear forces. To provide reinforcement, a geotextile must have sufficient strength, low elongation and low creep to avoid movement of the structure.

Separation
Separation is the process of preventing two dissimilar materials from mixing. In this function, a geotextile must often be used to prevent the undesirable mixing of fill and natural soils or two different types of fill.
**GEO NATPET GEOSYNTHETIC SOLUTIONS**

**Enkadrain™**

The Enkadrain product family consists of a range of drainage composite comprising a polymer drainage core connected to a protective and filtering non-woven on one or both sides. Enkadrain can be used in a variety of horizontal and vertical applications, combining drainage, protection and filtration in one product.

Enka drain is used in vertical walls buildings close or below water tables, it is used in landfilled, green roofs.

**Enkagrid™ PRO**

Enkagrid PRO is a uni-axial high strength laser-welded geogrid for the reinforcement of slopes, walls, embankments, platforms and foundations.

The structure of highly oriented laser-welded polyester strips provides powerful and dependable reinforcement in demanding situations in civil engineering or building projects. Thanks to its superior mechanical properties, the long term performance of Enkagrid PRO is outstanding. The engineered structure of Enkagrid employs cutting edge manufacturing concepts such as the patented computer controlled laser-welding process. Using this laser technology, the quality of the junction bonds is precisely controlled during production. This creates consistently rigid joints throughout the geogrid without affecting the polymer orientation or stress strain performance of the extruded strips.

**BN Geocomposites**

BN constantly strives to meet customers’ expectation and requirement through our expertise and experience to provide the most suitable product and service. We consider BN Geosynthetics a solution provider, a trusted business partner and a socially responsible company.

Enkadrain and Enkagrid™ are trademarks of Low and GEO Company.
REFERENCE WORK
DRAINAGE GEOCOMPOSITES

BN DRAIN

THE NEW DRAINAGE SOLUTION FOR RESIDUE STORAGE CAPPING AND PONDS

- High flow conductivity
- High bearing capacity
- Excellent separation property

BN TECHDRAIN

The Best Drainage solution for Mines (Leach pads, Tailing dams)

- High Compressive Strength

BN INTERDRAIN

The Most adaptable Solution for Mines

- Versatility
PRODUCT PORTFOLIO

PP Staple Fiber
Geotextiles
Geocomposites
Geogrids
Geocells
Vertical Drains
Erosion Control Systems
Construction Fibres

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