

# Thrace-LINQ™

MEMBER THRACE GROUP

The Foundation to Build On™



■ Excellent products to do the job.  
The service to do it right.™

# Thrace-LINQ™ is a global manufacturer and supplier of Geosynthetic materials for a wide variety of applications.

## Excellent products to do the job

We believe in excellence, and it shapes every aspect of our procedures, processes and people. Your product needs to be consistent, so we conduct raw material testing procedures and integrate our extrusion, beaming, weaving and finishing to ensure a high level of quality. We've organized our experienced craftspeople into self-managing work teams so your product is followed closely throughout the entire manufacturing process. And we're always pursuing technological innovation to offer you the latest solutions.

## The service to do it right

At Thrace-LINQ™, we also know that personalized service can make the difference between success and failure for your application. That's why we insist on relationship-oriented sales staff and it's why we offer responsive customer service. Our service and product selection also give you a high degree of flexibility. No matter your Geosynthetics needs, we can help you get it done.

Excellence, with the service to back it up. At Thrace-LINQ, Geosynthetics are our main business, and it shows in every roll we produce.

*Thrace-LINQ™ is a global supplier of woven and nonwoven polypropylene-based Geosynthetic fabrics for a wide variety of technical textile applications. Thrace-LINQ is a member of The Thrace Plastics Group, owned by Thrace Plastics Co. S.A. of Athens, Greece. Manufacturing, warehousing, logistics and business services are managed in Summerville, South Carolina.*

## Technical Fabrics

### Geotextiles

- Wovens
- Nonwovens
- Monofilaments
- Medium Strengths
- Silt Fence

### Agrotextiles

- Landscape
- Groundcover

## Functions

### Filtration



### Erosion Control



### Reinforcement/Stabilization



### Protection



### Separation



### Drainage



Customer Service:  
Call 1-800-445-4675



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## Geotextiles that stand the test of time.

When you want proven performance in separation, erosion control, sediment control, stabilization, drainage and other Geosynthetic applications, call Thrace-LINQ™.

To meet various application requirements, you can select from Thrace-LINQ geotextiles with a proven track record of more than 25 years.



Thrace-LINQ's woven and nonwoven geotextiles are manufactured with the highest grade polypropylene, and are designed to last when properly installed. Polypropylene is unaffected from exposure to a wide range of organic and inorganic chemicals.

Trained distributors assure product availability when you need it, and our technical service helps assure optimum results. We can also work with you on fabrics if you don't see what you need on the following pages.

## Stabilization/separation — prolongs surface life of roads

The surface performance of a road, parking lot, airport taxiway or other traffic-bearing surfaces depends on the strength and stability of the foundation. To prolong surface life and stabilize the foundation, geotextiles provide a rugged separation/stabilization layer between aggregate and subgrade.

Case studies have shown improved resistance to deformation under repeated load. This means increased service life for asphalt or concrete surfaces and resistance to rutting on unpaved roads. In any application, roadway performance is improved.

In addition to maintenance savings, geotextiles save cost by reducing aggregate depth and preserving the aggregate.

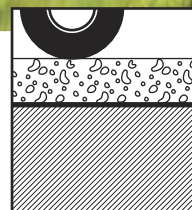
Over-excavation is also eliminated or reduced, and wet periods or saturated soil conditions will not necessarily increase construction time and labor.

With excellent grab tensile strength and tear resistance, geotextiles are durable and easy-to-handle for fast, efficient installation. Proven stabilization applications include paved and unpaved roads, temporary construction roads, truck freight yards, parking lots, log and ore storage areas, and aircraft taxiways.

Thrace-LINQ offers a variety of ground stabilization geotextile products and roll sizes which allow you to select the most cost-effective geotextile for your particular application and site conditions. Both woven and nonwoven geotextiles are available as described in the chart below.

**Depending on the subgrade strength, traffic condition, aggregate type and thickness, select from the Thrace-LINQ geotextiles below.**

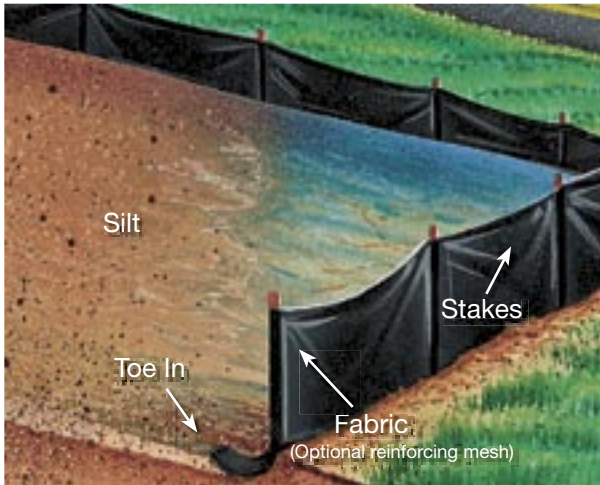
Site Conditions	Suggested Geotextiles
Light Duty	GTF 200S, GTF 200, 140EX
Moderate Duty	GTF 250, 150EX
Heavy Duty	GTF 300, 180EX



**With a geotextile, aggregate retains load bearing capacity and does not migrate into the subgrade.**

## Silt fence for containment

To satisfy environmental erosion considerations during construction, geotextiles and pre-assembled fences control silt from water run-off at the site. Most states require that sediment control plans, including silt fence, be submitted before construction on a site can begin. Thrace-LINQ distributors can offer our silt fence products fabricated in a variety of ways to meet your state's specifications.



**UV stabilized GTF 180SF and GTF 190SF meet most state DOT requirements along with AASHTO M288. GTF 170SF meets AASHTO specifications for "supported" silt fence.**

## Geotextile strength for specialized soil reinforcement

To meet the demanding range of site requirements for reinforcement projects, medium- or high-strength geotextiles of polypropylene composition are designed to provide versatility, variety and durable performance.

Medium- or high-strength geotextiles are available for reinforced work platforms and similar applications. Tensile strength and tensile modulus vary to meet specific requirements.

High-tenacity woven geotextiles are available for long-term reinforcement in critical performance structures. High tensile strength and modulus contribute to soil structure reinforcement. Additionally, low strain under load minimizes potential for creep deformation.

Application features:

- Distributes soil cover stresses
- Maintains reinforcing integrity
- Installs easily
- Cost effective



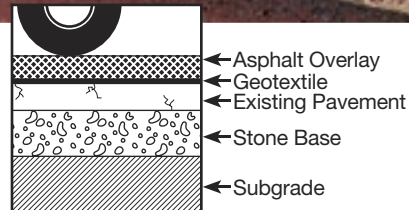
*Internally reinforced earthwall*

**Depending on the application, select from the following:**

- GTF 350, GTF 400, GTF 500, GTF 700

## Asphalt Overlay

Nonwoven geotextiles absorb asphalt tack coat to form a moisture barrier. It also retards reflective cracking by absorbing shearing stress.



**"Asphalt Overlay Light" (AOL)  
"Asphalt Overlay Medium" (AOM),  
"Asphalt Overlay Heavy" (AOH) or  
"Asphalt Overlay Extra Heavy" (AOE)  
installed over properly prepared pavement  
extends the life of asphalt overlay.**

## Thrace-LINQ Geotextiles that meet AASHTO M288 Specifications

APPLICATION	Strength CLASS	Site Conditions (SOIL TYPE)	Woven <50%	Nonwoven >50%
Subsurface Drainage	1	N/S	N/S	N/S
Subsurface Drainage	2	Coarse Gradation (<15%)	GTF 404	150EX
Subsurface Drainage	2	Medium Gradation (15-50%)	GTF 400E	150EX
Subsurface Drainage	2	Fine Gradation (>50%)	GTF 400E	150EX
Subsurface Drainage	3	Coarse Gradation (<15%)	GTF 404	140EX
Subsurface Drainage	3	Medium Gradation (15-50%)	GTF 400E	140EX
Subsurface Drainage	3	Fine Gradation (>50%)	GTF 400E	140EX
Separation	1	N/A	N/S	N/S
Separation	2	N/A	GTF 250	150EX
Separation	3	N/A	GTF 200/GTF 200S	140EX
Stabilization	1	N/A	GTF 300	180EX
Stabilization	2	N/A	GTF 250	150EX
Stabilization	3	N/A	GTF 200/GTF 200S	140EX
Permanent Erosion Control	1	Coarse Gradation (<15%)	GTF 404	180EX
Permanent Erosion Control	1	Medium Gradation (15-50%)	N/S	180EX
Permanent Erosion Control	1	Fine Gradation (>50%)	N/S	180EX
Permanent Erosion Control	2	Coarse Gradation (<15%)	GTF 404	N/S
Permanent Erosion Control	2	Medium Gradation (15-50%)	GTF 400E	N/S
Permanent Erosion Control	2	Fine Gradation (>50%)	GTF 400E	N/S
Permanent Erosion Control	3	N/S	N/S	N/S
Temporary Silt Fence (Supported)	N/A	N/A	GTF 170SF	125EX
Temporary Silt Fence (Unsupported)	N/A	N/A	GTF 180SF/GTF 190SF	145EX
Paving Fabric	N/A	N/A	N/A	AOM

N/S: AASHTO does not specify products for this strength class or application

## Drainage protection to maintain flow and percolation

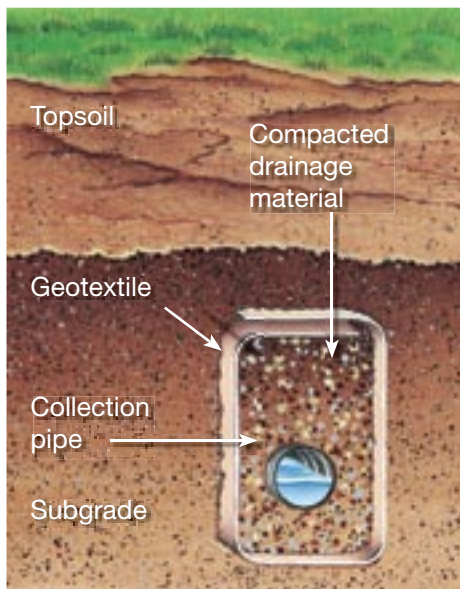
### Drainage and septic systems

Geotextiles provide a protective layer to help prevent native soil intrusion and clogging of subsurface drains.

In septic systems, geotextiles are a permeable separator allowing liquids to percolate into the ground through the drainage field, but restricting fine particles from passage.

As an alternative to graded aggregate or sand filters, geotextiles are cost effective and easy to install.

Track records of proven drainage applications include pavement edge drain, french drains and foundation drainage.



*Depending on the site conditions, including size of rock, height of rock drop and degree of compaction, select from the Thrace-LINQ geotextiles below.*

Site Conditions	Suggested Geotextiles
Protected	125EX, 130EX, 140EX
Unprotected	150EX

## Waste management and landfills

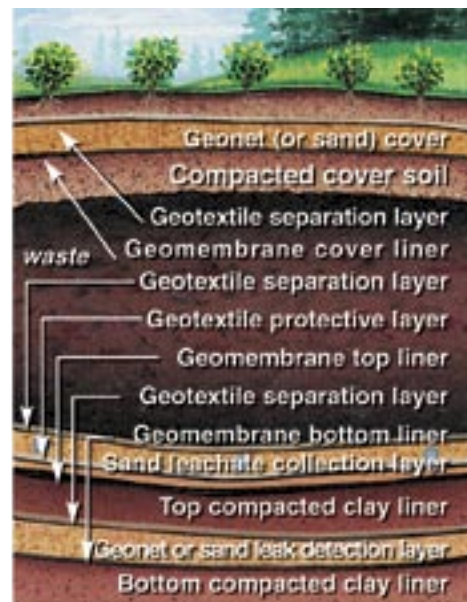
Geotextiles are at work in many waste management and landfill applications, including hazardous waste landfills that meet stringent EPA regulations.

The reasons for such wide acceptance are many:

- Permeable separators
- Resistance to most chemicals
- Puncture and tear resistance
- High tensile strength
- Durability
- Fast construction
- Economical use
- Meets FHWA drainage criteria for most applications

In addition to the typical EPA landfill, there are multiple uses in municipal landfills:

- Protective layer to prevent geomembrane liner damage.
- Permeable separation layer to preserve drainage layers.
- Separation layer to prevent clay incursion into geonet drainage.



Typical landfill cross section

## Prefabricated drainage composites

### *Battle Drain I™ & Battle Drain II™*

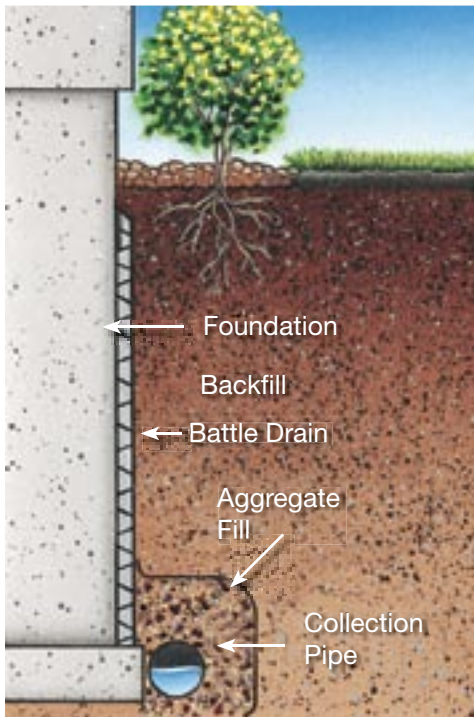
Battle Drain products are unique one-sided drainage composites with superior flow capacity, high compression strength and creep resistance.

Battle Drain I composite with 10,000 psf compressive strength is an economical choice for moderate confining pressure drainage projects including foundation and retaining walls for residential and commercial buildings.

Battle Drain II with 15,000 psf compressive strength meets the demands of trafficked horizontal applications, deep foundation wall drainage, and drainage under high overburden loads.

Both composites feature:

- Lighter weight than granular blankets.
- More flow capacity than sand or gravel layers.



**Other applications include roof decks and gardens, golf course greens, athletic fields and tracks.**

## Visual barrier fence

A durable knit of high-density polyethylene, this high-visibility orange fencing provides a visual barrier as well as withstands the demands of many applications.



**With a nominal size of 48 inches by 150 feet, Thrace-LINQ visual barrier fence is lightweight and easy to install.**

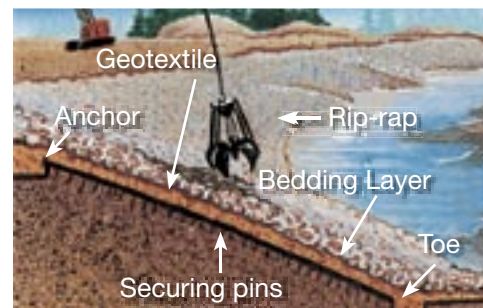
## Erosion protection

Erosion protection structures using a geotextile hold soil in place and dissipate hydraulic forces that cause erosion. Installation of a geotextile under heavy stone, rip-rap, gabions or pre-cast blocks is fast and easy—a time and money-saving alternative to traditional methods using graded aggregate or sand filters.

Geotextiles feature:

- Permittivity for drainage
- Durability
- Conformability
- Resistance to rot, chemicals

Proven applications include protection of stream banks, slopes, shorelines, retaining walls, submerged foundations, bulkheads and revetments.

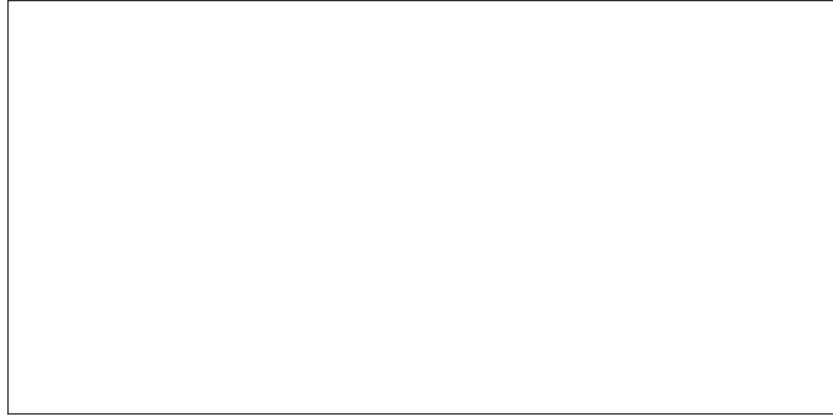


**Depending on the application, select from the following:**

- Woven GTF 400E, GTF 400EO, GTF 404
- Nonwoven 180EX, 225EX, 250EX



## Authorized Distributor



### Geotextile performance call Thrace-LINQ™

- Products known for quality
- Responsive service
- Cost effective
- Tough, long-life durability
- Consistent product uniformity
- High tensile strength
- Resistant to rot, mildew, chemicals
- Superior tear resistance
- Easy to handle
- Fast installation

Detailed guidelines are available for product selection and specification based on application, site conditions, traffic conditions, aggregate used and installation method. To receive this specification manual for ground stabilization, drainage, erosion and sediment control, contact Thrace-LINQ:

**1-800-445-4675**



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