

A.G.A. GEOTEXTILE RANGE

We provide multi-disciplinary teams able to design, supply and install defined geo-fabrics within specific projects.

Our comprehensive product range means we can provide geotextiles for applications both above and below the water line.

- Impermeable & GCL Lining systems
- Separation & Permeability
- Reinforcement & Protection
- Drainage & Filtration
- Soil Stabilisation
- Erosion control

*Concept to
Completion*



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A.G.A. CLAYMAT NATURAL LINING SYSTEM.

The self-sealing property of A.G.A. Claymat secures the integrity of any open water containment system.

In the event of damage, water will cause the bentonite to hydrate and thus, render the liner impermeable.

The structure is permanently protected – even small cracks and voids will self-seal. Claymat offers superior technical properties, significant advantages in cost savings, ease of installation and outstanding performance.

Claymat functions within very wide range of applications:

- Reservoirs, ponds and lakes
- Dams, canals and water courses
- Geomembrane protection layers
- Surface impoundment liners
- Secondary containment
- Groundwater protection
- Landfill base liners
- Waste and containment capping
- Vertical barriers



A.G.A. FIRESTONE EPDM GEOMEMBRANE LINER.

Firestone EPDM single-ply synthetic rubber impermeable membrane offers a unique combination of benefits.

High Flexibility for Creative Designs:

This means more creative freedom having the ability to accomplish even the most challenging designs, fitting the size and contours of any water feature.

Environmentally Friendly:

Completely inert with no threat to the environment, thus it is totally safe for fish and plant life.

Easy Maintenance:

EPDM liners require virtually no maintenance after installation. In the unlikely event of a puncture, the liner can be quickly repaired on-site minimising cost and inconvenience.

Long Life:

PondGard™ liners display outstanding resistance to UV exposure, ozone, frost, snow and extreme temperatures.

Lasting and Pleasing Appearance

Developed to protect against microbial algae attacks. Liners contain no migrating plasticisers – thus no cracking. Twenty years after installation our liners are as functional and striking as the day they were installed.

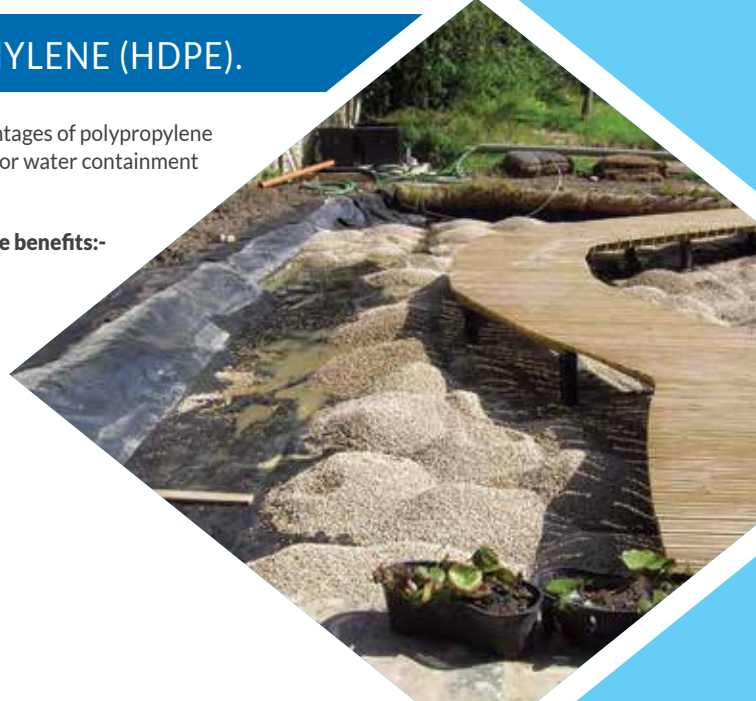


A.G.A. GEO-LINER HIGH DENSITY POLYETHYLENE (HDPE).

A.G.A. Geo-liner is a highly flexible but very robust liner combining the advantages of polypropylene with those of ethylene propylene rubber. It is the most widely used product for water containment applications providing the lowest permeability of any geomembrane

A.G.A. Geo-liner polyethylene geomembrane lining system offers valuable benefits:-

- Tough and flexible
- Conforms well to sub-grade irregularities and protrusions
- Offers a good margin of safety during settlement or subsidence
- Outstanding resistance to cracking under stress.
- Copes well with steeper slopes
- Excellent UV resistance
- Containing no material which can contaminate water
- Outstanding resistance to aggressive chemicals
- Relatively easy repaired in the field
- Proven performance



A.G.A. ADVANCE HF ACHIEVING HIGH WATER FLOW RATES.

Advance HF offers high water through flows with optimum particle retention able to attain water flow rates up to 600 l/m²/sec. Woven geotextiles offer greater mechanical strength per unit weight than comparable non-woven.

Typical applications:

Erosion protection

Protects banks of lakes and rivers from hydraulic activity

Separation

HF keeps costly aggregates from being lost to the subgrade.

Reinforcement

Increases load bearing capacity by absorbing stress from heavy loads.

Filtration

Restricts the movement of soil fines to control particle movement

Drainage

Allows high water flows with relatively large pore size distribution

ADVANCE HF (**HFL**) is available with loops incorporated into the fabric for anchor points.



A.G.A. NEEDLE PUNCH 300 PROTECTION OF IMPERMEABLE MEMBRANES.

Protection. With excellent flexibility, durability and thickness, needle punch offers optimum puncture resistance to adjacent geosynthetics.

Separation. NP300 reinforces poor existing sub-soil, it prevents its mixing with imported material laid above. It is used below our Geocell as a Tree Root Protection Mat providing a separation and filtration layer allowing water, nutrients and air to percolate the root zone while deflecting fibrous root rising up through into the Geocell surface fill.

Filtration. NP300 retains particles whilst allowing the free movement of water, keeping separate, opposing layers, during hydraulic activity.

Drainage. NP300 will maintain continuous free drainage of water from construction sites with minimum loss of pressure. The structure of needle punch lets excess water pass through the material without blocking the fabric facilitating drainage from the area.

Chemical resistance. Resistant to the compounds normally found in the ground including acids alkalis, chlorides, sulphates and leachate.



A.G.A. SPAN VERTICAL BANK PROTECTION.

A.G.A. Span is a unique product for vertical bank protection while providing a high-quality and very economical form of erosion control. This prefabricated, revetment fabric is made from strong UV stabilised yarns manufactured with a series of open pockets each having a width of 220 mm so that 100mm (max) diameter posts can be placed into them. A.G.A. Span is easily installed without special equipment in streams, small watercourses, lakes and ponds so is especially useful where access to the bank may be restricted.

Distinctive benefits

Good permeability and soil retention properties

Allows the establishment of vegetation through the fabric and is therefore environmentally desirable

UV stabilised and resistant to attack from chemicals and bacteria

Low priced and easily installed by available labour

Particularly suitable for use on banks of a vertical nature and for river narrowing



A.G.A. ADVANCE REINFORCEMENT AND SEPARATION.

Where roadways, car parks, driveways, cycle paths etc. call for a simple separator requiring low strength characteristics, ADVANCE is the proven solution.

A.G.A. ADVANCE geotextile reinforces poor existing subsoil and prevents it from mixing with the good quality imported material thus limiting uneven settlement. This immensely reduces the risk of rutting or deformation developing on the finished surface. Since less expensive construction material are needed this ensures substantial savings.

A.G.A. ADVANCE is a woven geotextile with all the right features; it is versatile, lightweight, permeable, rot proof and inert to all naturally occurring chemicals. It becomes an integral part of a stable base for a wide range of earthwork construction.

ADVANCE prevents mixing of the sub-base and the sub-soil, even under high dynamic loads.

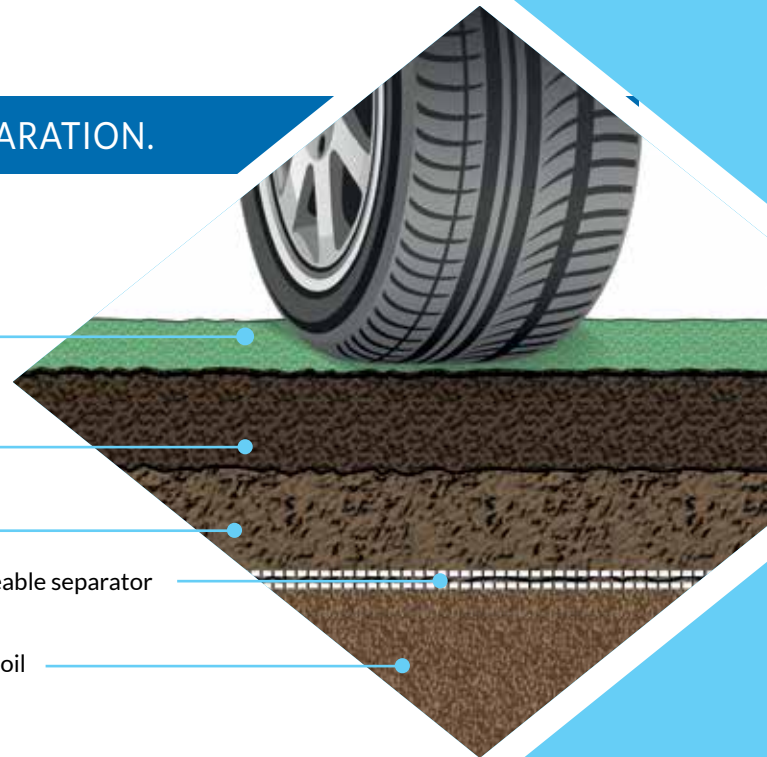
Dynamic live loading

Basecourse

Sub-base

ADVANCE permeable separator

Low quality sub-soil



A.G.A. TRPM TREE ROOT PROTECTION MAT.

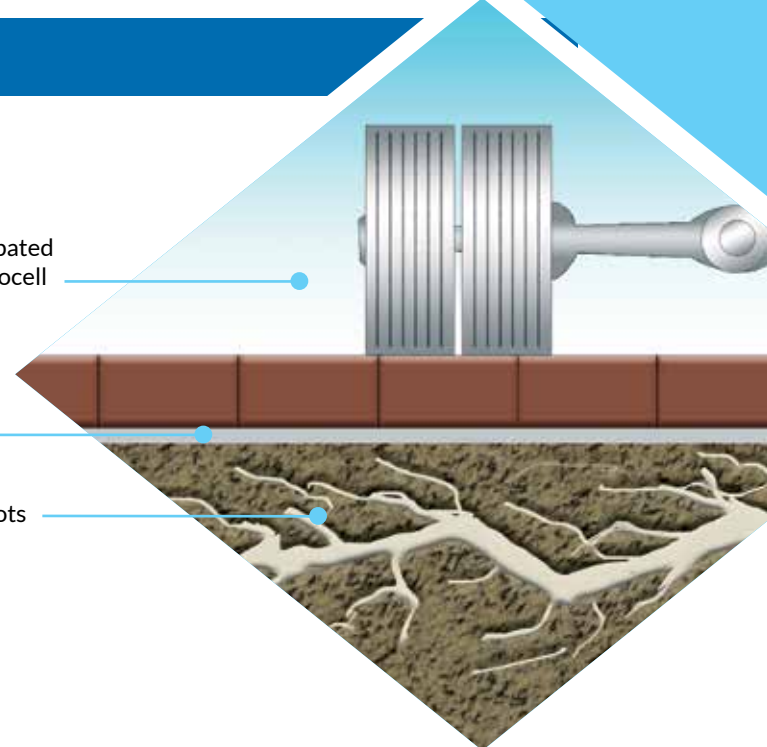
Our high performance NP300 needle punched polypropylene nonwoven geotextile, is used in conjunction with A.G.A. Geocell to provide long term protection to vulnerable tree roots subject to high traffic loads.

Tree Root Protection Mat provides a layer for separation and filtration. Water, nutrients and air percolate the root zone to sustain plant development while deflecting fibrous root rising up through into the Geocell fill which supports the surface loading.

Down forces dissipated through A.G.A. Geocell

A.G.A. Tree Root Protection Mat (TRPM 300)

Protected Tree roots



A.G.A. Over 20 years of providing geosynthetic solutions that have built the foundations for stability, containment filtration and drainage.

The A.G.A. Group provide current and detailed Technical Specification and Information Sheets for all product groups. These are available as hard copy on request or can be downloaded directly from our website <http://agagroup.co.uk/home-page/product-and-services-info-sheet-downloads>

This information is subject to change arising from new developments and findings. If you are unable to find the item you are looking for, please do not hesitate to contact us immediately.

The A.G.A. Group contracts division are specialist within the field of aquatic and bioengineering. We operate a policy of 'Best Practice' and are bound by the Code of Conduct of both the Institute of Fisheries Management and the Royal Society of Biology.

The A.G.A. Group will quote for the supply of materials, their installation or for 'turnkey' projects.

A.G.A. is Quality assured to: ISO9001: 2008, ISO14001: 2004 and 18001: 2007

A.G.A. Group, MMG, MHP and AGACES are trading styles of A.G.A. Bio-engineering Systems Limited.

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