

BUTEK Landline

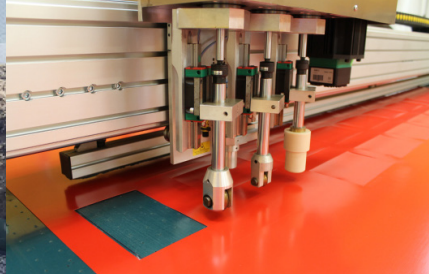
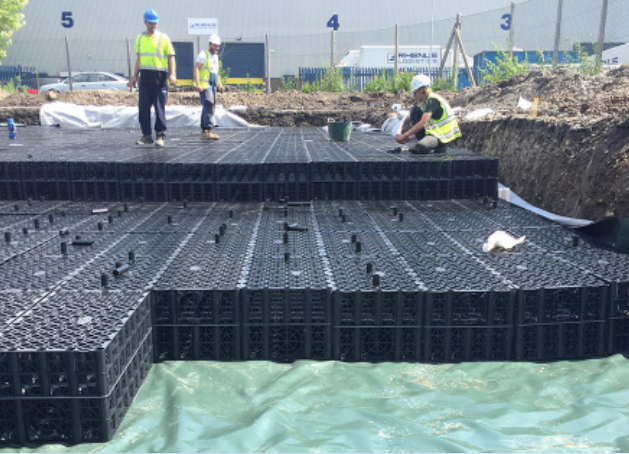
Containment Solutions



High Quality Geomembrane Solutions for Waterproofing, Gas Protection and Liquid Containment

- Application specific material specification
 - Design, Supply and Installation
 - Testing and Certification

Worldwide Supply. World Class Service.





Our smart, efficient supply chain and experienced project management teams, along with our directly employed installation teams take care of your project from concept to completion



ISO 9001
Quality Management System

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Product Development



Geomembrane Lining Solutions

- Gasproof Barriers & Protection Systems
- Primary & Secondary Liquid Containment
- Waterproofing Membranes
- Rigid Steel Liquid Storage Tanks
- Reed Bed, Lagoon, Lake & Reservoir

Lining Systems

- Landfill Cell Lining & Capping
- Leachate & Slurry Lagoon Lining
- Cellar Linings
- Attenuation / Storm Cell Linings
- EPS Block Wrapping

Our expertise at work for you

Connecting your requirements to the services you need

Geomembrane lining systems and geosynthetic design are specialities for our highly skilled engineers and installation teams working throughout the UK and internationally across a broad spectrum of industry sectors.

We operate a fully documented ISO quality management system. Project management, monitoring, inspection and testing is provided in compliance with contract Health & Safety plans. Our experienced full time trained construction and installation crews (TWI & CSCS qualified) use the latest specialist plant and welding equipment to complete projects to schedule and on budget.

Flexible solutions for your needs

Our design engineers provide a total end to end solution

We can provide a full range of textured and smooth HDPE and LLDPE, Polypropylene, Polyurethane, PVC, Butyl Rubber and EPDM geomembranes together with geosynthetic clay liners, geocomposites and geotextiles.

Our experienced directly employed technicians and engineers welcome the opportunity to work directly with your organisation; we offer complete design, supply, installation & testing services.

Our accumulated experience and our depth of product knowledge and are always available to you and our unique combination of manufacturing facilities and civil engineering expertise enables us to supply products with a high level of prefabrication, thus allowing a more efficient use of installation time on site.

That's why wherever your project is located and whatever your lining system or liquid containment needs — We're confident that we have a solution for you.

Recent Projects:

- Glycol storage solution for 4.5 million litres in remote Shetland Island location: 9 tanks, 4.59m high, 11.98m diameter
- 25 Attenuation ponds for Norwich Northern Distribution Route: Installing over 65,000m² of 1.00mm HDPE with protection Geotextile above and below
- 874,000 litres Pre-treatment contaminated water storage tanks in Rio de Janeiro, Brazil: 2 tanks, 4.59m high, 11.06m diameter

Attenuation Tank Liners / Storm Cell Linings

Prefabricated, flexible, welded box liners and lids; often referred to as Attenuation Tank Liners, Shoe Box Liners or SUDS (Sustainable Urban Drainage System) boxes; are manufactured in a variety of materials to suit your project and built to any size. Goods can be delivered directly to your site for convenience. The linings can also be supplied with 'Top Hats' for sealing to pipes and vents.

Our liners are used effectively in Sustainable Urban Drainage Systems designed for water management & flow rate control of stormwater run-off.

We can offer free guidance on self installation, reducing the need for sub contract installation.

We can design and fabricate attenuation crate wrappings in a variety of materials, and install on site should the cell to be lined prove too large or too complex to supply as a prefabricated unit. Our skilled site crews offer many years of installation experience with a wide range of attenuation units including Polystorm, Aquacell, Hydro International and Waterloc systems.

We have preferential rates with a number of storm cell manufacturers, and can offer very competitive rates for the complete project; from concept design right through to project completion.

All of our water attenuation liners are palletised for delivery and fully certified. Each unit is manufactured with fusion high frequency welded or vulcanised seams.

Leachate & Slurry Lagoon Lining, Storage Tanks, Pits & Ponds

Our Agricultural Lining division offers impermeable geomembranes for leachate & slurry lagoons, storage tanks, reception pits and settlement ponds. Our dedicated specialist teams can provide design, supply and installation services for a number of storage and lining applications common to agricultural requirements.

UK Government guidelines for the storage of silage and slurry, (March 2015) states that slurry lagoons, tanks, reception pits, pipes and channels must be impermeable and meet anti-corrosion standards set in BS 5502 (Buildings and structures for agriculture. Code of practice for design, construction and use of storage tanks and reception pits for livestock slurry). All of our linings are manufactured with these guidelines in mind.

We can offer testing services and can also provide modular thermal barrier floating covers where process reactive temperatures need to be maintained during winter months.

Covers may be designed for retro-fitment with the lagoon remaining in service.



Firewater Storage Ponds

Fire water storage / supply and the return catchment of contaminated fire water is an area of extreme importance as refineries and process plants become more complex and strive to meet ever increasing safety standards. We work with designers and contractors to match the property requirements of the geomembrane liner with the chemicals being contained and provide a value engineered solution for the installation works.

We have extensive experience in providing lining solutions for fire water storage and sprinkler tank systems throughout the UK. Whether the requirement is for large lagoon storage, underground concrete tanks, sprinkler water stored at height, or tanks where access is limited or restricted, our skilled technicians can offer new linings or a complete refurbishment service dependant on your needs.

Fire water protection lagoons like the one pictured right are not just practical – they can provide great visual enhancement to new developments. All of our technicians are IPAF, PASMA, CCNSG and Confined Space trained.

Waterproof Lining Systems for Lakes and Lagoons

We can manufacture, supply and install geomembrane liners and waterproof lining systems for reservoirs, lakes, ponds, canals and lagoons. Our approach ensures a fast response to identifying the perfect lining solution for each project. We have the experience to consider timescale, budget, specification of material and specific site conditions. We provide a full 360 degree service that includes detailed design, liaison with contractors, full installation and inspection.

Our high quality, CE marked range of waterproof lining products includes: Landflex PEHD (HDPE), Landflex PELL (LLDPE), Landflex BR (Butyl Rubber), Landflex EP (EPDM Rubber). Our Landflex G3000, G4000 and G6200 CBR puncture resistant liner protection geotextile complements the range, providing excellent protection against damage to our liners. Our selection of materials together with our expertly trained and qualified waterproof lining system installers guarantees the highest standards are met, and unforeseen challenges on site are swiftly resolved, enabling projects to be completed on time and on budget.

Potable Water Reservoir Lining

Our group companies boast a wealth of experience in water storage solutions and particularly drinking water reservoir lining. We regularly work with water authorities and utilities companies both in the UK and worldwide. We specialise in service reservoir refurbishment and enhancement, and have the design capability, manufacturing capacity and installation teams to undertake reservoir lining, baffle curtain and floating cover projects.

We work on a design and build, partnering or preferred contractor basis, or on a term, framework or single contract basis. We offer single source responsibility, and we are able to provide insurance-backed warranties and term maintenance agreements on much of our work. Butek Landline is a CITB registered company.



Floating Reservoir Covers

Floating covers eliminate algae growth and contamination from airborne pollutants. They reduce evaporation losses and assist in temperature stabilisation. Covers may be modular or may fully encapsulate the upper surface of the reservoir by being mechanically fixed and sealed around the perimeter. They can be designed to cater for fluctuating water levels, rainwater drainage, and routine access.

Floating covers are usually manufactured from polypropylene. The material characteristics demonstrate high dimensional stability, flexibility and mechanical strength enabling the most stringent design criteria to be met. Covers are manufactured in our UK factory under clean and controlled conditions. All welds are tested in accordance with our ISO 9001 quality management system.

Our prices are highly competitive which is why our supply and installation services remain among the most cost effective and highly rated throughout the UK and Europe.

Reservoir Roof Lining

Our experienced engineers and technicians are able to provide geomembrane waterproofing systems to suit specific site applications. Geomembrane systems are fully welded and tested; and may be designed to include geotextile protection and geocomposite drainage layers. We also undertake roof condition surveys, construction joint overbanding, perimeter and lateral drainage works and backfill placement. Water testing and leak detection surveys can be performed on the completed waterproofing works.

Baffle Curtains

Baffle curtains are a cost-effective method of controlling water movement in service reservoirs, contact tanks and open raw water storage reservoirs. Baffle curtains increase reservoir retention time, assist flow segregation, enhance sediment drop-out, and eliminate surface water skimming and stagnation. Additionally, they can improve chemical mixing and therefore make it possible for reduced chlorination. Baffle curtains are manufactured from DWI approved polypropylene. Curtains are manufactured in our UK factory under clean, controlled conditions. All welds are tested in accordance with our ISO 9001 quality management system.

Experienced full time field crews perform all reservoir waterproofing, baffle curtain and floating cover installation work. Our directly employed skilled technicians are CSCS and National Water Hygiene card holders, TWI welding certified, trained to work in confined spaces, and possess medical certification for working in a potable water environment.



Lagoons & Settlement Ponds

Water is a scarce, valuable commodity and attenuation has become an essential requirement for irrigation and containment purposes. Regulations for effectively managing waste liquids and effluents mean that lagoons and ponds are often required to avoid discharge into rivers and other watercourses prior to treatment.

We understand the design, planning and grant aspects of this work and we're used to partnering with specialist consultants in this field. We have a product to suit every water containment requirement from contaminated water or chemical run-off to the storage of rainwater. A tailored approach is adopted for each project to suit clients' needs, from offering complete reservoir construction works to applying only the geomembrane lining.

Canals, Water Features, Ponds

We have undertaken extensive canal work for the Canal & River Trust as part of their ongoing restoration and refurbishment programme.

Installation work often has to be performed during arduous winter months in preparation for spring re-opening. Our fully trained technicians have vast experience in undertaking this type of work under difficult conditions, where low temperature and high precipitation is expected.

We have been able to provide a containment solution to precisely meet the Canal & River Trust's stringent requirements using our 1.2mm Landflex PVC120AP lining system which has helped to secure sections of the network for future generations to enjoy.

We have extensive experience in the geomembrane lining and construction of specialist water features and in associated civil engineering, geosynthetics, electromechanical work, earthworks and landscaping. The company has worked for most of the principal architectural practices including Richard Rogers, Ove Arup, BDP, Charles Funke, Atkins, Gillespie, Sir Norman Foster and Derek Lovejoy.

Butek Landline can take on all elements of the lining or construction work and can advise on all aspects of the water feature or pond design that impact directly on the geomembrane and its selection process.



Reed Beds & Constructed Wetland Lining

A reed bed, or constructed wetland is an engineered structure – like a pond – normally rectangular in shape. It harnesses the natural ecological processes that break down organic matter in wastewater. They contain gravels that are usually planted with common river reeds (Phragmites Australis).

Contaminated liquid effluent is applied either at one end or across the entire surface (depending on the reed bed type), and collected from the other end by a series of drainage pipes or a weir outlet structure at the bottom.

As the effluent passes through the gravels in the reed bed, it comes into contact with the bacteria growing in the oxygen rich atmosphere of the root system and on the surfaces of the gravels. This is the primary agent that breaks down and digests the sewage in the effluent.

This is an environmentally friendly, low cost and entirely natural process.

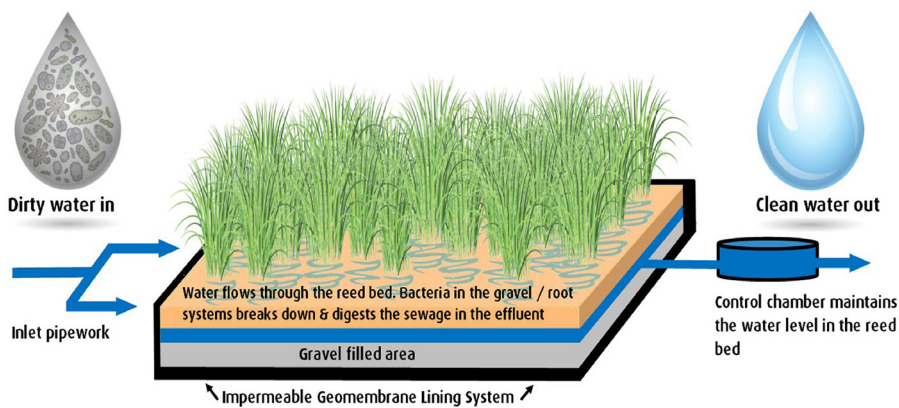
Reed beds are highly effective when properly designed and can be used in conjunction with ponds and wetlands to produce near river quality water. Vertical flow reed beds are more effective at nitrifying effluents: converting ammonia to nitrates and nitrites, than most package sewage treatment plants.

We've been providing high quality, durable and tough linings for reed bed systems and constructed wetlands for over 40 years. It is imperative that the system is not compromised by leaks into the surrounding ground areas so a secure lining is vitally important to the long term success of the project.

Our depth of knowledge in this area is borne out by the fact that we continue to be specified by waste water consultants, engineers and water authorities, and our capabilities extend from single home reed beds of 100m² to beds in excess of 10,000m².

What are the benefits?

- Environmentally friendly
- Natural and sustainable
- Gravity driven: No energy required
- Low operation & maintenance costs



Typical applications include Domestic wastewater, Groundwater remediation, Landfill leachates, Airports and Service Stations.



Landfill Lining & Capping Services

We are very proud to employ some of the most experienced specialist technicians in this field, with over 80 years combined knowledge between them.

Landflex PEHD is a High Density Polyethylene (HDPE) available in both smooth and textured forms for use in landfill cell lining, capping and leachate containment works. Landflex PELL is a Linear Low Density Polyethylene (LLDPE) available in both smooth and textured forms for use in landfill capping.

Landflex Gasflow, our wide width pre-formed drainage and gas venting geocomposite offers a cost effective, sustainable and environmental alternative to filter stone and allows superior flow in all directions, unlike traditional pipe systems.

The cusped core with non woven geotextile fabric bonded on either one or both sides provides filtering for a wide range of materials while also allowing free passage of fluids into the core to be drained to a discharge point.

Textured materials allow for an increased friction angle to be maintained so improving the backfill side slope stability and enabling steeper embankments to be lined.

Polystyrene Embankment & Flotation Cell Wrapping

The company can line cellular polystyrene blocks with flexible reinforced fuel and oil resistant geomembranes to provide a hydrocarbon resistant close-fitting covering.

The materials used for this type of application are:

- Extremely flexible and can provide a tight, hardwearing cover for each polystyrene block.
- Tear resistant and do not puncture or rip when in transit or during installation.

The blocks may be used for road and rail bridge abutment construction to create a lightweight fill or in marine floating walkway and offshore applications. A textured variant of the geomembrane is available, which enables improved friction between surfaces.

The blue blocks pictured are being utilised as a flotation aid beneath a pontoon for the R.N.L.I and have been lined using one of our reinforced PVC materials at 0.5mm thickness.

Cellar Lining Services, Tanking Membranes & DPC's

We offer a range of materials suitable for below ground tanking membranes. We specialise in the manufacture of bespoke cellar linings and offer a variety of membranes ideally suited for use as damp proof courses.

Our skilled geosynthetic lining installation teams can offer site waterproofing services during initial build or resealing and repair to leaking structures if required.

Our crews undertake waterproofing projects for a wide range of clients. These include private individuals, large corporate entities and civil / specialist contractors.



Ground Gas Membranes & Venting Systems

Specialist gas membranes, gas barriers & gas venting systems offered by Butek Landline can be designed, supplied & installed by our skilled technicians. The materials we use are specifically designed for the protection of buildings against the ingress of methane, radon & carbon dioxide gases and other VOC's that might be present. This is especially relevant where buildings are scheduled to be constructed on Brownfield sites or on land being earmarked for urban redevelopment, or for sites that have previously been used for commercial or industrial purposes. Butek Landline's quality assured products and services are backed by extensive technical expertise and unrivalled customer service.

We have provided significant project specific cost savings due to our wealth of experience in this market.

We offer a fully warranted design service for gas membrane and gas venting packages. The designs take full account of site investigation reports and are backed by professional indemnity insurance. The systems additionally comply with BRE documents 211, 212, 414; CIRIA report 665; BS8485:2015; Ground Gas Handbook.

Gas & VOC / Hydrocarbon Membrane Types

Two specifically formulated ground gas protection membranes have been developed.

Landflex ZR60 is a high performance reinforced aluminium foil polyethylene composite, most usually used in domestic housing and high risk ground gas situations.

Landflex HC is a multi layer polyethylene gas and hydrocarbon membrane that complies with the latest codes of practise as published by BRE, CIRIA (C748) and BSI (BS 8485:2015). It is highly suited for ground gas / hydrocarbon protection for NHBC Green, Amber 1, Amber 2 and Red site characterisations.

Pre-welded Gas Membranes for Domestic Housing

The company can supply pre-welded Landflex panels or trays to housebuilders and developers. Panels are pre-welded in factory controlled conditions and are sized and shaped to suit individual house plots. This removes the necessity for on-site jointing of rolls and enables rapid installation in all weather conditions. Housing developers requiring panels of varying sizes at different times can place orders for a complete phase development at the outset, thus achieving best cost; and allowing for call off of individually sized panels to suit the build programme.

This has become THE cost effective solution to gas membrane installation.

For housing developers placing phased development orders, the company offers an on-site training programme fully covering all installation methods and techniques. These include sub-base preparation, positioning of panels, attachment to the DPC, sealing to pipe entries and avoidance of membrane damage during overlay operations.



Gas Membranes for Retail & Industrial Buildings

The Landflex ZR60 gas membrane is available pre-fabricated for rapid installation. This, coupled with Butek Landline’s ability to install large welded areas quickly and to perform efficient detail work, makes the system ideally suitable for use by laser screeding companies.

Gas Membrane Retrofit & Building Control Compliance

The company regularly assists in overcoming problems relating to methods of construction and requirements for building control, and is frequently called in at short notice to provide fast-track solutions for retrofit situations where the use of a gas barrier membrane or a gas venting system had not been considered until after building work commenced.

Gas Venting Design

We offer full methane gas venting design services including provision of design certificate, drawings and calculations, PI insurance and warranty. The company has in-house CAD facilities and is used to working to tight deadlines for planning, building control and construction purposes. This level of expertise and our ‘intelligent design’ approach has allowed significant cost savings to be made.

Below: Example bespoke Gas Venting System Design Layout



Gas Venting System Component Supply

We design, manufacture and stock our own ZR range of methane gas venting components suitable for all internal and external venting requirements. Components are usually available ex-stock and may be supplied singularly or as a package to contractors wishing to install the system themselves.



Our engineers can advise on gas venting component selection and installation and can provide manufacturer inspection training and compliance certification for clients proposing their own installation of the ZR gas venting system.

Gas Resistant Jointing Tape, Top Hats & DPC's

The company offers an extensive range of self-installation accessories to accompany the pre-welded Landflex ZR gas membrane. These enable straightforward sealing to pipe and service entries and connection to the DPC.

Intelligent Underfloor Methane Gas Monitoring System

Our engineers have designed a complete intelligent underfloor gas monitoring system for use in developments constructed on Brownfield sites, where there are high levels of gas and therefore a higher risk for ground gas ingress into the building.

The system continuously samples air from up to 12 areas in the building and checks for concentrations of methane, carbon dioxide and VOCs. Negative pressure fans are activated if an unsafe level of gas is detected and once gas levels return to acceptable limits the monitoring system automatically switches off the fans.

Fans can be designed to cycle for minimum energy consumption where required. A user-friendly control panel displays safety information for instant and easy to view status reports. In conjunction with a gas membrane and venting installation, this system offers a comprehensive gas protection solution including full survey, sensors, controls, alarms, installation, calibration, training and warranty.

The system has been extensively specified in schools, hospitals, prisons and community centres as well as industrial and commercial premises.

Gas Membrane Testing, Inspection & Verification Services

With the recent revision of BS8485 (2015) we have seen an increase in the requirements for gas membrane testing and verification to achieve a points score of 2. All the requirements of BS8485 (2015) need to be achieved to enable the point score to be allocated.

Testing and verification to C735 is now required to fully comply with these guidelines.

We are pleased to be able to offer a fully independent verification and testing service. Our industry leading professionals provide inspection, testing and verification of all major gas membrane and venting installations and we can organise external verification and testing of our own installations in accordance with C735 requirements.

We have a full suite of air lance testing equipment and can provide the latest in CO₂ tracer gas testing as required.

As the leading designer, supplier and installer of gas membranes and venting systems, we are proud to be at the forefront in the industry setting the very highest standards in installation quality and testing.



Specialist Gas Protection Membranes

Building regulations require that proper preventative measures be taken to avoid danger to health and safety when building on contaminated land. Our Gas Barrier systems offer a safe solution for the protection of buildings and their occupants constructed in areas where gases are present – such as disused mines, coalfields, industrial and landfill sites.

Landflex HC Hydrocarbon Barrier

0.5mm thickness multi-layer polyethylene gas and hydrocarbon membrane, specially designed and manufactured to perform as a Methane, Carbon Dioxide, Radon, Ground Gas, VOC, air, moisture and Hydrocarbon protection system.

Complies with the latest codes of practise as published by BRE, CIRIA (C748) and BSI (BS 8485:2015). Suitable for use as ground gas / hydrocarbon protection for NHBC Green, Amber 1, Amber 2 and Red site characterisations.

Landflex Gasflow 25 – Specialist Gas Protection Membrane

Geocomposite Venting Layer

Universal application 25mm high flow geocomposite suitable for water or gas, supplied in rolls of 0.9m x 50m.

UV stabilised geotextile layer filter, thermally bonded on one side of a cusped HDPE core. Suitable for both active and passive venting systems. Main applications are removal of Radon, Methane, Carbon Monoxide, Hydrogen Sulphide etc., from below base slabs of offices, industrial and commercial buildings.

Landflex ZR60 – Specialist Gas Protection Membrane

Landflex ZR60 is recommended for use where medium to high concentrations of radon gas occur, or where methane, carbon monoxide and other gases are present. It can also serve as a damp proof membrane in solid concrete floors to protect structures against moisture from the ground.

Manufactured from multi-layer low-density polyethylene (LDPE) with a multi filament polyester (1670 dtex) reinforcing grid between to provide high strength and tear resistance, the membrane also incorporates an aluminium foil core for low gas permeability.

Landflex ZR60 is manufactured to last the lifetime of the construction provided it is correctly installed by trained technicians and not subject to mechanical damage by other building operations. The material has high puncture resistance and will not be damaged by normal footfall or site traffic on smooth or blinded surfaces.



Gas Barrier Installation in a newly built Primary School



Landflex HC Hydrocarbon Barrier



Landflex Gasflow 25



Landflex Gasflow 25

Drainage & Gas Venting Geocomposite

A highly flexible, strong Polyethylene material with a cusped core, Pozidrain has a non woven geotextile filter fabric bonded either one or both sides. Pozidrain is a sustainable, environmental alternative to traditional filter stone.

Used predominantly for Landfill applications such as leachate collection, this product is also highly suitable for gas venting, groundwater drainage collection, capillary break layers, vertical cut-off trenches, leakage detection layers, embankment drainage and slope stabilisation.

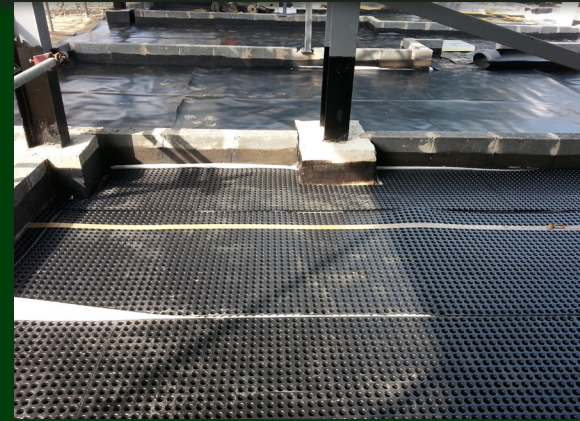
Among its many benefits the material:

- Is easy to handle
- Eliminates filter stone
- Creates volume in landfill
- Allows use of lower specification backfill materials
- Reduces excavation and backfill
- Offers high impact and crush strength
- Has a high flow capacity
- Acts as a protection to the geomembrane
- Allows ease and speed of installation without specialist equipment
- Greatly reduces traffic volumes compared to drainage stone

Standard roll dimensions:

4.4m wide x 100m

0.915m wide x 50m



Secondary Containment Berms & Bunds

Butek Landline manufactures and supplies secondary containment berms and bunds, and installs flexible geomembrane liners for the petrochemical industry. These include the Landflex 90EE & Landflex 100ES range of petrochemical, fuel and oil resistant membranes. The material is a specially formulated premium grade elvaloy, compounded for extremes of use. It provides high strength and flexibility, combined with high chemical resistance and long term environmental integrity.

We specialise in working with process engineers, tank constructors and refurbishers, M & E contractors and groundworkers. The company provides quality assured installations in complex situations and can perform repair and extension work to existing site-installed geomembranes.

Our skilled site teams can undertake secondary containment lining and underground bund lining for petrol station fuel storage tanks and for garage forecourt areas. We work closely with consultants and architects working in the field of service station and forecourt design to provide a cost-effective installation.

Providing safe containment for fuel and chemical spillages and runway runoff is vital for the safe operation of airports and military airbases. Butek Landline supplies and installs specialist fuel resistant liners suitable for use with Jet Fuel A1 and Glycol De-icers and can provide engineered solutions for specific applications.

We have a range of portable berms manufactured from Landflex 90EE & 100ES, with robust tubular steel framework, designed for the safe containment of petrochemicals in drums, bags or bladder tanks.

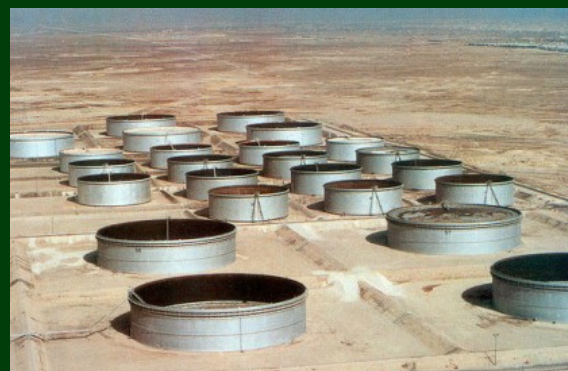
Our Butyl Products Ltd Easy-Up Berms are suitable for all climates, are fully reusable, easily transported, and can be deployed by 3 people in less than an hour. They are also highly suitable for use as secondary containment for stored Agricultural fuel oils.

UK Government guidelines for the storage of Agricultural fuel oils (Published March, 2015), state that the secondary containment bund must:

- Have a life-expectancy of at least 20 years with maintenance.
- Be impermeable to oil and water (walls and base), with no drain-down pipe.
- Contain every part of the tank or drums, with taps and valves directed down and locked shut when not in use.
- Contain delivery pipes that are permanently attached to the primary tank which must be fitted with self-closing taps or valves and locked inside when not in use.

Our material demonstrates high tensile strength, with excellent puncture and hydrostatic resistance. Landflex 90EE & 100ES materials are suitable for use with diesels, agricultural fuel oils, jet fuels, all petrochemicals and a wide range of acids and alkalis.

Our Butyl Products Ltd Easy-Up Berms are manufactured to meet customer specifications, so can be produced in any size or capacity ranging from 3.0m x 3.0 x 0.3m deep (2,700 litres) to 21.5m x 17.0m x 0.6m deep (200,000 litres).



Liquid Storage Tank Manufacture

As an established water storage tank manufacturer, and preferred supplier across a wide range of industry sectors for over 4 decades, our tanks are used worldwide for a variety of applications such as:

- Emergency aid
- Fire water storage
- Rainwater harvesting
- Temporary & remote camps
- Irrigation supply for agriculture, sports pitch maintenance and golf courses.

We also provide a range of water storage solutions for festivals and sporting events.

Our original tank design was adopted by Oxfam in the early 1970's and is now universally known as the 'Oxfam Tank' throughout the Humanitarian Aid sector. Our tanks versatility coupled with our impressive range of size / capacity options ensures we have exactly the right liquid storage tank for your requirement, even if your site is in the harshest of environments.

Our galvanised steel liquid storage tanks are available with capacities ranging from 1,960 litres to 1,212,000 litres.

All tank kits are supplied complete with steels, liquidproof lining, assembly instructions, tools, accessories, repair kits and roof (if required).

The tanks are ideal where large capacity and depth is required. They can be built on any firm, flat ground free from debris or a suitable concrete or ring beam base. Designed for use in all climates, our tanks can typically be erected by three people in around 8 hours.

Our tanks are manufactured using G450 galvanised steel punched and curved to suit the tank size. Galvanised round headed bolts, washers and nuts are provided to build the tank to the desired diameter and height. Capping is provided to protect the top edge of the steel tank.

The linings are manufactured in the form of a cylindrical liquid tight bag sized to suit the tank, and are offered in a range of materials including Butyl and EPDM rubber. Through tank outlets are provided in 3" diameter as standard and can also be offered in other sizes dependent on customer requirement.

Roof options are available: G600 Galvanised steel with lockable manway for added security, or PVC, which is more suitable for short term use applications.

All of our tanks are approved to Construction Products Regulation CPR305-211-EU and are CE marked to EN1090.

A full range of associated spares and accessories are usually available from stock.



Geomembrane Supply

Our Geomembrane Supply service offers a range of waterproof and impermeable geomembranes available to buy in a variety of roll sizes to suit most containment or lining projects. We offer CE marked, WRAS, DWI and BBA approved materials, competitively priced and available for transportation straight to site.

The vast majority of our materials can also be offered as prefabricated panels.

PVC

Polyvinyl Chloride (PVC) is a low cost membrane suitable for short life applications in unreinforced form, or for special applications in cloth reinforced form. Prefabricated sheets can be produced in a wide variety of specifications including specially formulated non toxic membranes for drinking / potable water use. PVC is available in a range of colours and thicknesses from 0.4mm to 3.0mm. We can also prefabricate into larger flat sheets or 3 dimensional products using cutting edge High Frequency welding technology.

Standard Roll Dimensions:

2 to 3m wide and up to 200m long (dependent on material selection)

Example Applications:

Tank Linings and Flexible Liquid Storage Bladders / Pillows, Wildlife Pond and Lake Linings, Groundsheets and Roofing, Vehicle Side Curtains and Tarpaulins.

Polypropylene

We can offer Polypropylene roll form supply or bespoke prefabricated sheets. The material is a linear hydrocarbon polymer, and one of the most versatile available with a wide range of applications, both as a plastic and as a fibre (See our Geotextile section). We offer unreinforced and more widely used nylon reinforced options in 0.90mm to 1.50mm thicknesses; we also offer membranes that are suitable for potable / drinking water use if required.

Polypropylene has good chemical resistance and can be used in some petrochemical applications.

Standard Roll Dimensions:

5.8m x 200m

PP membranes suitable for drinking water use are typically 2.0m wide in varying lengths

Example Applications:

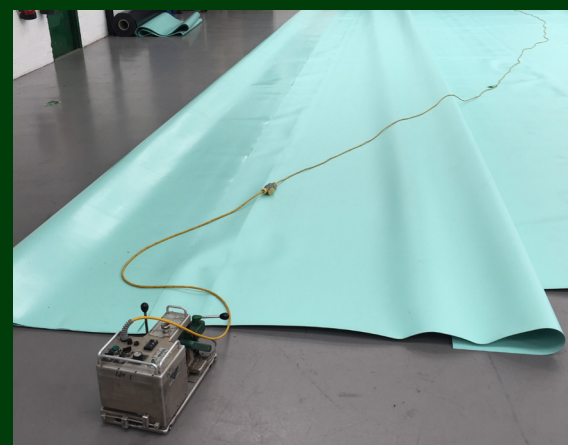
Tank Linings, Wildlife Pond and Lake Linings, Reservoir Linings, Floating Covers and Baffle Curtains, Roofing and Decking, Groundsheets.

Butyl Rubber

Butyl Rubber is the original geomembrane liner suitable for water, water soluble chemicals and some acids. High elongation at yield makes it suitable for applications where movement or settlement is possible, and its flexibility makes it ideal for confined space applications. This material is also suitable for use in low temperature applications to -30°C.

Our Butyl Rubber is UV stable, non-toxic to aquatic life and has an expected working lifetime of around 50 years.

It is available in a range of thickness from 0.75mm to 3.00mm and in both plain (foil) and reinforced versions. A number of versions are WRAS approved for use with drinking water and for use in building projects (BBA approval).



Standard Roll Dimensions:

1.7m wide x 15 to 45m long (dependent on thickness of material required)

Example Applications:

Tank Linings, Wildlife Pond & Lake Linings, Reservoir Linings, Baffle Curtains & Covers, Lagoons & Attenuation Tanks, Green Roofs, Roofing & Decking, Contaminated Land Covers, Tanking Membranes, Damp Proofing Membranes.

EPDM

EPDM Rubber (Ethylene Propylene Diene Monomer) is a synthetic rubber that is available in a wide variety of formulations. Many of these formulations cannot be vulcanised and must therefore be taped or glued. We offer for supply and work only with EPDM membranes that can be vulcanised, that are WRAS approved for drinking water, and are non toxic to aquatic life and plants.

Suitable for use with water, as well as some acids and alkalis.

Our EPDM rubber roll form supply & sheet fabrication service offers both plain (foil) and reinforced versions in a variety of thicknesses ranging from 0.75mm to 2.00mm

Standard Roll Dimensions:

1.7m wide x 15m to 45m (dependent on material thickness).

Example Applications:

Tank & Reservoir Linings, Lagoons & Attenuation Tanks, Self Supporting Tanks, Roofing & Decking projects.

Polyethylene

Polyethylene (PE) roll form supply is available in a range of densities with variable flexibility. Economic and with good overall chemical resistance, this material is highly suited to larger projects.

High Density Polyethylene (HDPE)

The Landflex PEHD high density polyethylene membrane is ideal for use in a wide range of containment applications including lakes, canals, ponds, dam lining, lagoons and reservoirs. The material is robust enough to meet all current environmental performance demands and available in thicknesses ranging from 0.5mm to 2.5mm. This material has a range of textures and can be supplied smooth, textured one side or textured both sides.

Standard Roll Dimensions:

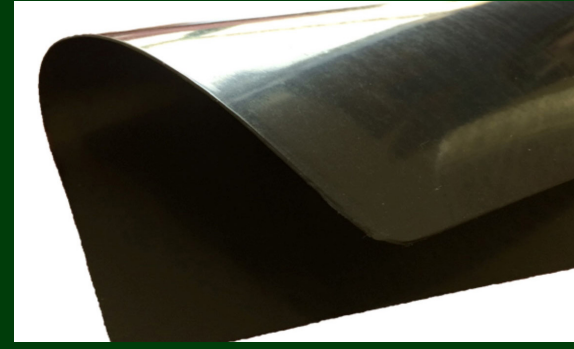
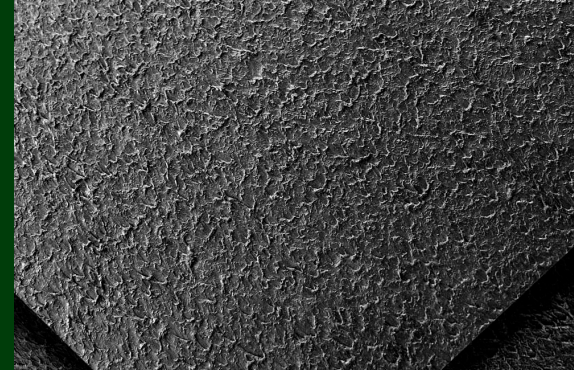
6m wide x 100 to 200m (dependent on material thickness).

Linear Low Density Polyethylene (LLDPE)

Linear Low Density Polyethylene roll form supply offers high strength, extremely flexible, pliable material. It is an excellent choice for attenuation tank linings, landfill capping, pond and lake projects and where Japanese Knotweed must be contained. This material has a range of textures and can be supplied smooth, textured one side or textured both sides, and is available in a range of thicknesses from 0.50mm to 2.50mm.

Standard Roll Dimensions:

0.5mm – 7m wide x 420m, 1.00mm – 6m wide x 200m



Polypropylene Geotextile Protection

Landflex G3000 Geotextile Protection - 3000CBR Geotextile

Spunbound, needle punched, black, polymer polypropylene, supplied in full rolls of 2m, 3m and 4m wide x 100m. Weighing just 250g/m² yet highly flexible and extremely durable, this material is ideal for a wide variety of applications from root barriers and weed control to lining protection for domestic garden ponds, lagoons, reservoirs, canals, lakes and attenuation lining protection.

Landflex G4000 Geotextile Protection - 4000CBR Geotextile

Non-woven, needle punched, white, virgin polymer polypropylene comes in full rolls ranging from 5m to 6m in width x 100m and in half rolls of 2.5m to 3m in width x 100m, for convenience of installation. Durable, flexible and with high puncture resistance, the Landflex G4000 geotextile suits most applications including porous paving, backfilled reservoirs, roadworks and construction projects.

Landflex G6000 Geotextile Protection - 6000CBR Geotextile

Spunbound, needle punched, black, polymer polypropylene, supplied in full rolls of 6m wide x 150m. Weighing 500g/m² this material is ideally suited where there is a high probability of puncture to lining materials, over gabion baskets for example.

Landflex 90EE & 100ES

Landflex 90EE & 100ES are textured, strong, flexible and long-lasting. They are suitable for use as a high quality Damp Proof Course (DPC) offering full hydrocarbon protection. These characteristics make it ideal for use in housing or for retail and commercial building projects on Brownfield sites. Its textured surface enhances its bond strength and pull out values when used with mortar joints or concrete overlay. Landflex 90EE & 100ES materials are supplied in flat wound rolls, prefabricated sheets or preformed trays. The material has been approved as a hydrocarbon membrane protection solution for housebuilders, and is resistant to oils and fuels making it suitable for use in secondary containment applications.

Standard Roll Dimensions:

1.88m wide x 200m

Example Applications:

Damp Proof Course and Hydrocarbon Protection, Contaminated Land Covers, Petrochemical Containment Lagoons, Secondary / Spill Containment.

Polyurethane

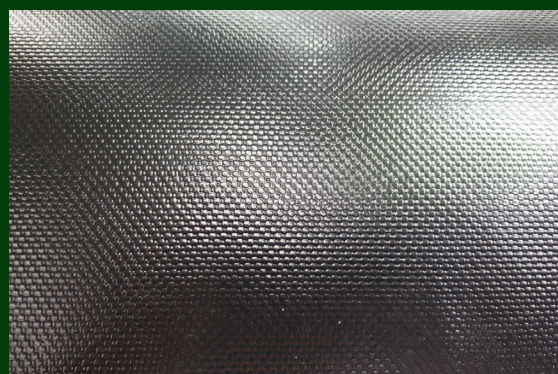
Our Landflex Polyurethane roll form supply & sheet fabrication service offers highly resilient, flexible and durable membranes: most often used as a nylon reinforced material. PU membranes demonstrate properties useful in containing potable water, oils and fuels. We offer this product in limited colours as some pigments can affect the chemical resistance properties of the material.

Standard Roll Dimensions:

1.58m x 190m

Example Applications:

Flexible Fuel, Oil or Water Storage Bladders / Pillows, Tank Linings, Reservoir Covers and Baffle Curtains.



Geosynthetic Clay Liner

Landflex GCL Membrane

A needle punched, reinforced geocomposite combining two durable geotextile outer layers and a uniform core of high-swelling powder sodium bentonite clay. Constructed in this way Landflex GCL ensures a shear resistant hydraulic barrier with self sealing characteristics.

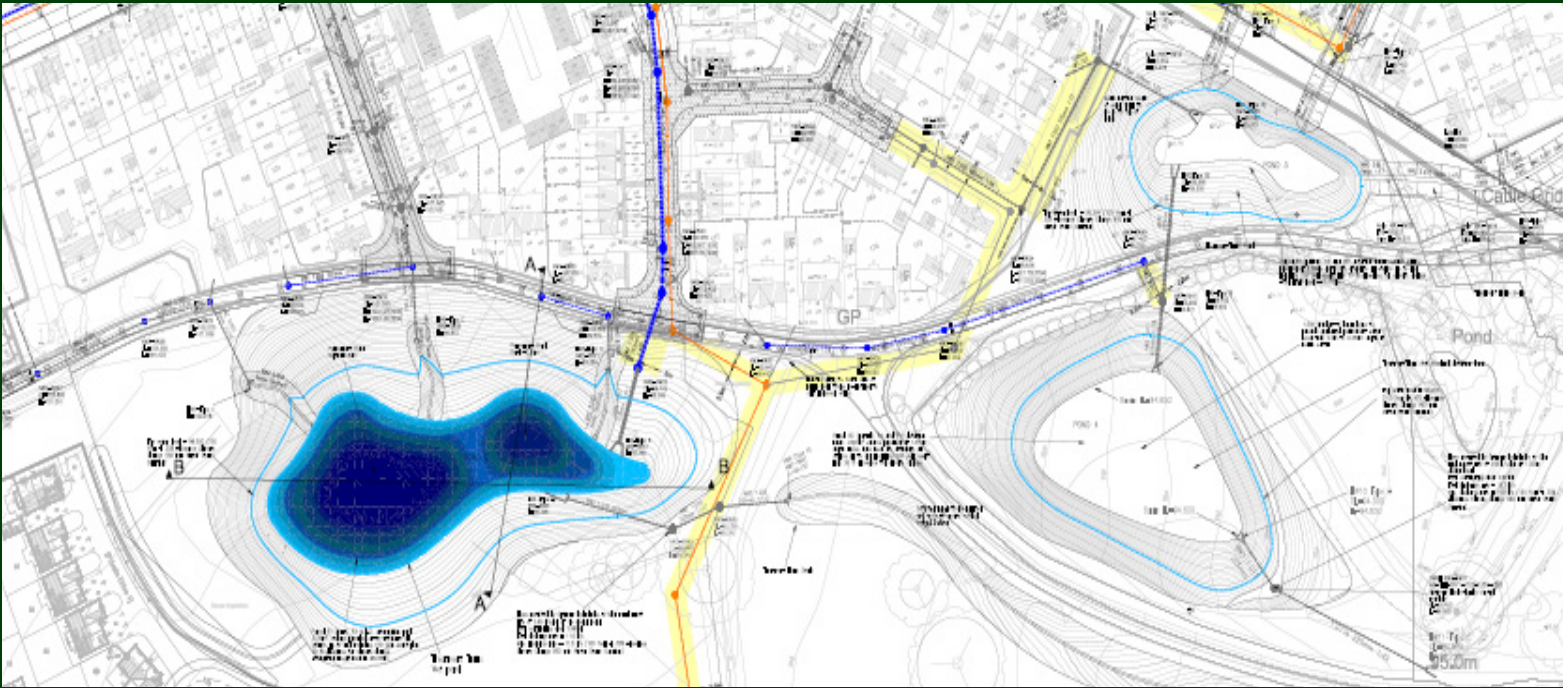
This product is CE marked and demonstrates excellent resistance to common chemicals.

Standard Roll Dimensions:

5m wide x 40m



Images Below: A recent GCL lining project in Leicester requiring 3,400m²





Modular Wastewater System (MWS)

The MWS is a bespoke modular wastewater system designed to assist with local sewage requirements based on the number of people at your location.

The waste stream is treated with efficient, low-energy processes that will remove all dangerous pathogens.

The discharge water can be deployed directly into an existing drainage system.

Data based on an 800 person facility

DAILY INPUT OF WASTE

80-000 - 120,000 litres

SYSTEM VOLUME

300,000 litres (4 x O2T75 tanks)

PATHOGEN REDUCTION

99.99%

STAFFING REQUIREMENTS

4 x skilled and 6 x local labour (for initial set up)

OPERATIONAL IN 11 DAYS

Each MWS can be installed in around 7 - 20 days (depending on facility size) using supplied technical support and local labour.

Site based lab facilities for testing fecal sludge, Ammonia and Nitrogen (training provided for local staff)



Modular Wastewater System (MWS) Case Study

On July 14, 2021 the low-pressure weather system Bernd devastated parts of Germany, Belgium, and the Netherlands, causing an unprecedented catastrophe that claimed the lives of more than 180 people.

Particularly affected was the Ahr Valley in Western Germany, with entire villages destroyed by the flood. During the clean-up and reconstruction, it quickly became clear that as well as entire villages the local wastewater treatment plants had also been destroyed.

With raw sewage leaking into the river and the very real prospect of rebuilding the plants not being completed for years, there was an urgent requirement for an emergency deployable wastewater kit that could fill in the gap.



By a quirk of good fortune, the German Red Cross had only the previous month taken delivery of three prototype wastewater systems of this very type, manufactured by Butyl Products Ltd. in the UK.

These kits were the culmination of work started in 2018 when the IFRC installed the first pilot plant in the Cox's Bazar refugee camp in Bangladesh.

Once the decision had been made and the ground prepared, the German Red Cross with assistance from Saygin Engineering and Butyl Products adapted and built the wastewater treatment kit in just two weeks.

The connection was opened to the sewage pipeline and the new temporary treatment plant was able to deal with all of the wastewater from the village of Mayschoss.

After the successful installation of the Modular Wastewater System in Mayschoss, two more systems were built; in Hönningen Village (2021) and Altenahr Village (2022).

In June 2022 the project was handed over to the local municipalities with the expectation that they might be needed to operate for up to five years.

All three sites continue to provide a vital service treating the sewage and preventing environmental damage.





Surge Vessel Bladders

Our Engineers are on hand to use their extensive experience to provide guidance on ensuring that the Surge Vessel Bladder that we offer is appropriate for your system.

Our class leading manufacturing operation will provide you with an unrivalled manufacturing lead time of 2 weeks from receipt of order – for system breakdowns we can also offer to put on an additional shift to manufacture the bladder tank within 72 hours from receipt of order.

The majority of our Surge Vessel Bladders are produced from a high quality 3 ply 1.50mm Butyl Rubber with all vulcanised joints.

We can also produce surge vessel bladders in EPDM, Polyurethane and Polypropylene if required.

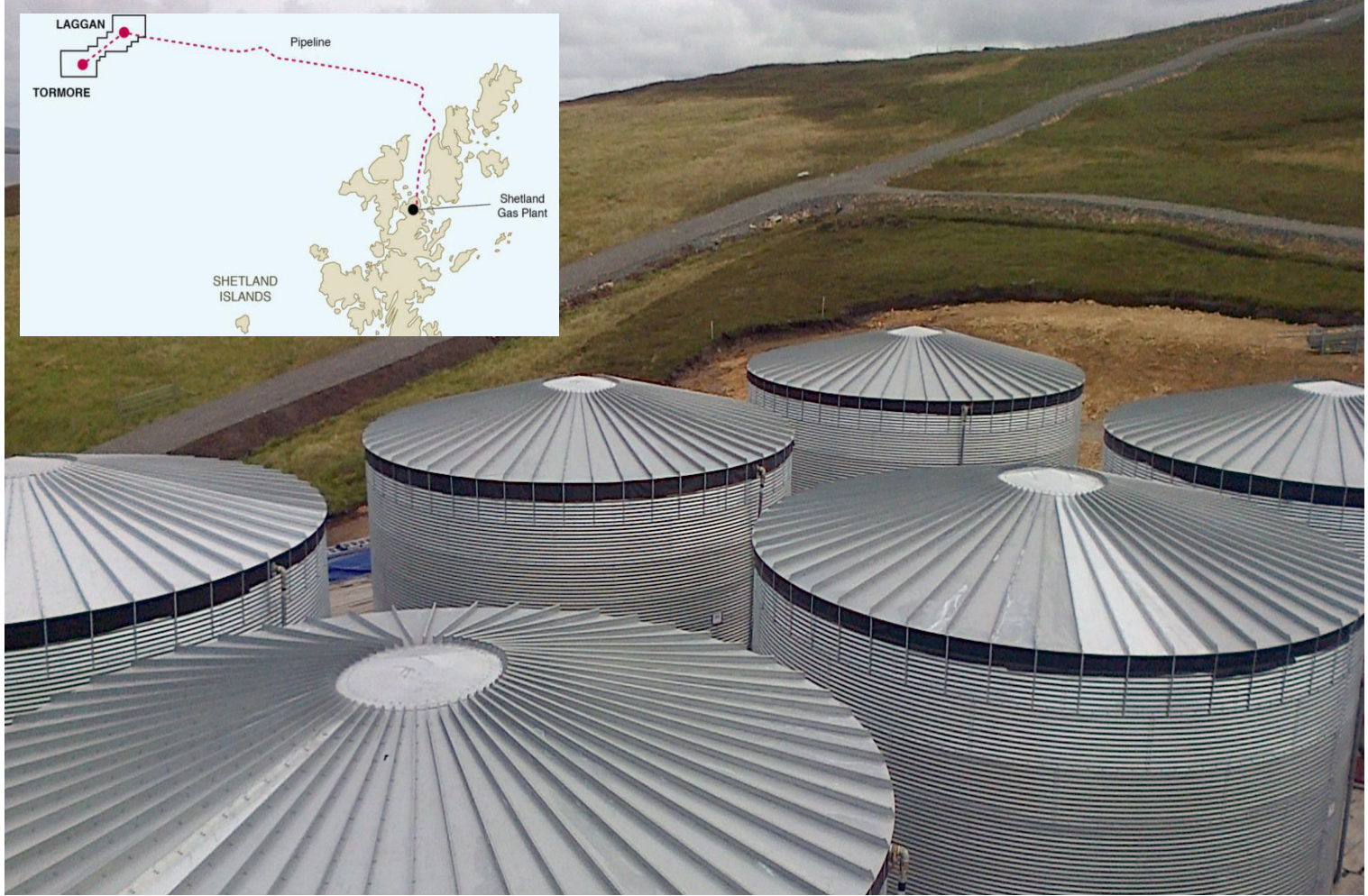
All of our bladders are air tested and supplied with a test report and certificate of conformity, giving our customers peace of mind that the product has been manufactured to the highest standards by skilled technicians.

Features available:

- **Lifting straps** – internal to prevent bladders from slumping into the steel chamber during installation.
- **Reinforcement patches** - to prevent abrasion or extrusion through metal grills.
- **Inlets/Outlets (Flanged Necks)** to ANSI, PN, DIN configuration.
- **Handles / Restraint hooks** – for holding the bladder in position.
- **Neck and body reinforcements** usually required for large bladders where the material needs assistance to support its own weight.



Case Study: Laggan Tormore - Steel Demountable Tanks with Impermeable Liners



Project: Supply & Install Glycol Storage Tanks for Laggan Tormore North Sea Gas Terminal

Client: Halliburton Pipeline & Process Services on behalf of Petrofac Ltd.

Summary: The new Laggan Tormore Gas terminal had a requirement for 4,500,000 litres of Ethylene Glycol to be safely stored on a temporary basis. Design considerations included:

- Containment of the Glycol through choice of appropriate lining material
- Environmental standards to be very high as agreed with Shetland Islanders
- Rapid deployment required to meet project critical path
- Safe removal of all equipment when main storage facility came online

Challenges: Special consideration was given to the adverse weather conditions frequently experienced in the Shetland Isles, high winds, heavy rainfall and snow. The tank structure was uprated to accommodate this, with a steel roof option also designed to resist the weather conditions, particularly snow loading.

Our Solution: The tanks offered have a structure built from galvanised, corrugated steel panels which are curved to form the required diameter and punched to accommodate the correct number and layout of fixings to meet EU standards for this type of storage tank. Each of the 9 tanks measured 11.98m diameter x 4.60m high to meet the capacity requirement.

The liquidtight liners for these tanks were manufactured in our UK factory to the high standards required for the petrochemical industry and military / Emergency Aid specifications.

The liner selected was 1.00mm Butyl Rubber with grade A recommended chemical resistance to the Mono-Ethylene Glycol to be stored. Bespoke Butyl rubber sleeves were designed and supplied to protect the galvanised iron roof supports from the tank contents.

The tank roofs were designed to be transportable in kit form and were supplied complete with lockable inspection manways.

The tanks have five decades of service history and have been widely deployed in the UK and overseas, wherever secure storage of liquids is required for short or long term.



Deployed tanks with secondary containment (blue PVC) bund lining visible on the left

Case Study: A5 to M1 Link - Attenuation Ponds



A5 - M1 link road and new M11 junction 11A: Photo by Highways England

Project: Supply & install attenuation pond linings around the new link site.

Client: Costain Carillion JV

Summary: Supply and installation of seven impermeable membranes to attenuation ponds around the site.

- Excavation of anchor trenches
- Installation of Landflex PE100LL liner system to all seven ponds
- Placement of fill over installed liner system

Challenges: Maintain integrity of the installation and enable storm / rainwater run-off to be captured in the attenuation ponds, thereby avoiding overloading of the drainage system.

Our Solution: A geosynthetic clay liner was originally specified by the clients project engineers but our Landflex PE100LL proved to be the preferred choice for this installation due to its durability, long lifetime and tensile strength. The lining system, comprising Landflex PE100LL together with protective geotextiles and soil placement covered a total area of 21,000m² and was completed in 30 days.

Landflex PE100LL is an inert UV resistant material. Once installed and covered it has an expected design lifetime in excess of 50 years. It is an extremely cost effective solution for projects of this nature.

The installation of Landflex PE membranes has a proven track record over 30 years in attenuation pond lining for road schemes. Its ability to be welded on site and tailored to the excavation allow for speedy and efficient installation. Fully welded and CQA tested for integrity; the client is assured of a totally watertight solution.

Case Study: Gas Membrane & designed Gas Venting system



Landflex 25 Gas Venting Geocomposite designed to suit the gas emissions identified in the SI report / verification plan

Project: Supply & install Gas Protection Membrane & design Gas Venting System for an Edinburgh site

Client: Costain Carillion JV

Summary: Supply and installation of a cost effective gas protection membrane together with a bespoke gas venting system.

- Air lance testing and tracer gas testing required by local authority
- Completely bespoke gas venting system designed and installed
- Prefabricated gas protection membrane supplied for faster installation

Challenges: Complex foundations at the site required a fully designed bespoke gas venting system. The developer turned to Butek Landline to provide a one stop solution in terms of:

- Gas venting design
- Supply and installation of gas membrane using our directly employed NVQ 2 installation technicians
- Independantly verified inspection and integrity testing
- A workmanship and materials guarantee with full PI for the gas venting design.

The client required the work to be carried out in multiple phases and therefore required flexibility to perform multiple mobilisations to site.

Our Solution: Our locally based directly employed installation teams were able to complete the works over 2 to 6 weeks in phased 3 day visits as required.

We supplied and installed approx. 2,500m² of our Landflex ZR60 prefabricated gas membrane, Landflex 25 gas venting geocomposite, Landflex ZRX adhesive tape for gas membranes and Landflex ZR gas venting outlet pipework and periscopic venting.

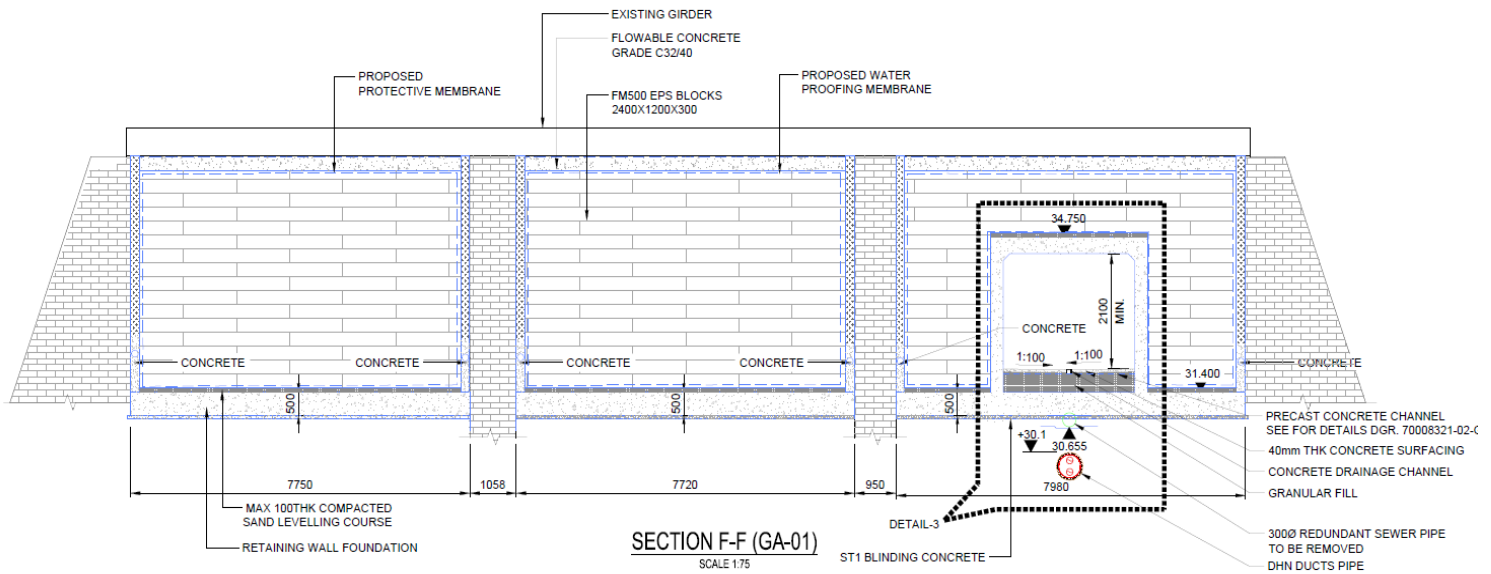
Regulatory requirements were fulfilled and close co-operation between all parties resulted in a successful solution to the challenges encountered on this particular site.

We were able to provide high quality industry leading technical assistance which allowed for a turnkey, cost effective, yet fully compliant Gas protection solution, delivered in close co-operation with the main contractor and groundworker, thereby achieving tight deadlines to keep the project on programme and on budget.



*Above left: Independent air lance integrity testing to installed Landflex ZR60 gas membrane
Above right: Independent tracer gas testing of first block in accordance with local authority requirements*

Case Study: Lisson Grove, London - EPS Infill to Road Bridge Arches



Project: Supply & install EPS wrapped blocks to three road bridge arches in London.

Client: F M Conway

Summary: The encapsulation of Expanded Polystyrene blocks with a hydrocarbon resistant membrane inside a three arched road bridge.

- The installation of Landflex 100ES to the floor and walls of the arches to 1.2m below soffit.
- Installation of Landflex 100ES welded to the wall section to ensure total encapsulation of EPS blocks
- Total encapsulation of individual EPS blocks in our factory to enable completion of the final 1.2metres

Challenges: Working in restricted areas with limited space. The challenge was to provide a solution to the completion of the EPS installation without compromising risk to the contractor or installation teams.

Our Solution: Our Landflex 100ES material is a chemically resistant flexible membrane and the preferred choice for this project due to its chemical resistances, tensile strength and flexibility. It's designed for longevity in challenging environments.

The road bridge at Lisson Grove is expected to settle by 10mm, exerting pressure on the EPS installation. The combination of lightweight EPS blocks and the chemical resistance of our Landflex 100ES will ensure the integrity of the project for the future.

The installation comprised 296 individually wrapped EPS blocks, pre-wrapped off site in our Billericay factory; utilising a total of around 5,800m² of material. Each block measured 2.4m x 1.22m x 600mm and the whole project was completed in 38 days (22 days manufacturing, 16 days on site).

Case Study: Woburn Golf & Country Club, Irrigation Reservoir



Project: Supply & install Irrigation Reservoir Lining

Client: Woburn Golf & Country Club

Summary: A complete impermeable lining system was required for a large 110,000m³ irrigation reservoir supplying three golf courses on the Woburn estate.

- Regularly spaced tyre safety ladders required.
- Installation of 22,500m² Landflex PE100LL membrane with Landflex G3000 protection geotextile above.
- Air pressure testing required for all welds to ensure the integrity of the installation.

Challenges: Working to a tight timeframe during the winter period under severe weather conditions including snow and sub zero temperatures.

Our Solution: Our Landflex PE100LL was the material of choice for this project due to its longevity, tensile strength and cost effectiveness. The membrane was twin track welded on site and fully CQA tested for integrity assuring the client of a fully watertight solution.

The project was completed in just under 20 days, on schedule and within budget despite the adverse weather.

Landflex membranes have a proven success record over 30 years. Its ability to be welded on site and fully tailored to the excavation allows speedy and efficient installation.

Case Study: Maxim Business Park, Eurocentral Scotland



Project: Ornamental Water Features

Client: Keppie Design / Bowmer and Kirkland

Summary: Butek Landline collaborated on the design, supplied and installed a network of 9 ponds which provided a focal point of the business park development and delivered an enhanced environment for the occupants of the park.

The Maxim Business Park is one of the most prestigious in the UK and counts SEPA among its clients. The water feature has greatly improved the overall aesthetic of the park and provides an effective way to re-use roof and surface water runoff. The finished features have created spectacular focal points at the main entrance to the park and the surrounding ponds provide a relaxing and visually attractive environment in which to conduct business.

Challenges: The ponds needed to be designed to mirror nature and had a number of waterfalls as well as areas of complex detailing, while remaining a working part of the symphonic drainage and water management system on the site. The linings had to be interfaced with a number of structures and the early collaboration with the system designers ensured that effective workable detailing was designed at an early stage; thereby avoiding delays on site.

The Butek Landline technical support and directly employed installation teams liaised with the main contractor to overcome a number of issues with other works which impacted on the water feature performance, and our extensive experience allowed us to identify and provide solutions to these problems.

Our Solution: We carried out a phased installation as the site progressed using 6,000m² of our Landflex PVC120AP 1.2mm and 12,000m² G3000 Geotextile, with a total of 20 days spent on site.

Customer Testimonials

Best Practice Award

The reason I picked your company for the Best Practice Award is for the way your operatives presented themselves .. nothing was an issue, discussing the progress and programme of works in a very professional manner, polite & thoughtful to all other trades on site which helped with the progress of works. I would recommend you on my next project if required, as long as I can have the same team"

Andrew Hall, Site Manager, Quantum Construction Ltd.

Surge Bladder Vessels

"Butyl Products Ltd provided Yorkshire Water with a replacement bladder. The only information Yorkshire Water could provide Butyl Products Ltd was a damaged bladder removed from a surge vessel along with the PCD.

Butyl Products Ltd manufactured a replacement bladder promptly; this bladder was installed and was a good fit for the vessel. Vessel was pressurised to 4 bar and held pressure. This ensured the surge vessel was returned to production with minimal down time.

The service provided by Butyl Products Ltd has now given Yorkshire Water and alternative option away from manufactures original parts which are costly and generally have long lead and delivery times".

Andy Holbrook, Yorkshire Water

Canal Lining

"On behalf of myself and Kier I would like to thank Butek Landline for the recent job that was completed for us in South Wales on the Monmouthshire Brecon canal. It's not been the easiest of jobs due to the challenging weather conditions but Butek have responded to our every need, if that be on site doing the work or on the end of a phone with advice. We look forward to working with you on future projects, thanks again"

Matt Taylor, Site Agent, Kier Infrastructure

Irrigation Lagoon

"Good workers: they worked well and were very professional. All work was completed in a timely manner. We would definitely work with Butek Landline again"

Alister Cutts, Director, Earlcote Construction & Plant Hire Ltd.

Reservoirs

"After making the decision to increase the size of our reservoir I contacted Butek Landline. They very quickly attended the site and discussed the plan and required groundworks. Once the in house team had the site ready, they again returned quickly and measured the area. I had the quotation the next day. Scheduling the work was easy and the whole project was painless from start to finish. All members of the team were professional and helpful throughout the project.

A big thank you and well done to all at Butek Landline."

Michael Redfern, Nursery Manager, Crocus

Aeration Ditch

"I'd like to take the opportunity to say a huge thank you for the efforts that your team of guys have put in to replace the liner in the ditch. They are working extremely hard, efficiently and safe, we are very pleased."

Paul Softley, British Sugar, Wissie Sugar Beet Factory

Butyl Products Ltd Head Office

Lingfield House, 11 Radford Crescent, Billericay
Essex, CM12 0DW, United Kingdom

T: +44 (0) 1277 653 281

E: enquiries@butek-landline.co.uk

W: butek-landline.co.uk

Butyl Products Ltd Companies

Pumpsets Ltd.

Unit 2, North Way

Walworth Business Park

Andover, Hampshire, SP10 5AZ

United Kingdom

www.pumpsets.com

Butyl Products Ltd.

Lingfield House

11 Radford Crescent

Billericay, Essex, Cm12 0DW

United Kingdom

www.butek-landline.co.uk

RNT Tanks & Silos

Unit 8, Drove Road

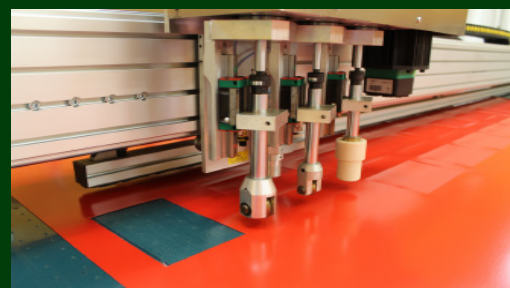
Gamlingay

Bedfordshire, SG19 2HX

United Kingdom

www.rnttanks.com

Our Facilities & Equipment





March 2018, Addis Ababa, Ethiopia:
3 water Storage Tanks 12.9m Ø at varying heights to 4.59m
with a total capacity of 1,130,000 litres.
Our fully trained technicians and engineers were on site
throughout the install assisting with installation and
providing a comprehensive training programme for local
labour teams for future installation projects.



Butyl Products Ltd., Lingfield House, 11 Radford Crescent, Billericay,
Essex, CM12 0DW, United Kingdom Company Registration GB 3141465
T. +44 (0) 1277 653 281 W: butek-landline.co.uk
E: enquiries@butek-landline.co.uk

