

# Fuel and Water Storage



# Creating complete flexible containment solutions

Trelleborg Flexible Containment Solutions (formerly Dunlop GRG), design, develop and manufacture polymer fabrications for many industries. For over 40 years we have been producing an extensive range of products, particularly in the field of heavy duty, rubber-coated textile, PU, TPU and PVC fabrications. Our experience in many challenging settings, industries and applications, has allowed us to continuously improve and develop our products for demanding commercial operations around the world.

Being part of the **Trelleborg Engineered Fabrics** division of the **Trelleborg Group**, one of the largest polymer processors in the world, puts us in a unique position. While working closely with you developing your project, we are supported by a large group with a broad scope of technical expertise resulting in single ownership from raw material to finished product.

With direct access to a large inventory in the supply chain, we are able to maximise product availability, keeping costs and lead times to a minimum, while still providing a highly personal service delivered by an experienced team.

Based in Manchester in the UK, Trelleborg Flexible Containment Solutions has been part of Trelleborg since 2005.

We supply a wide range of markets including the defence, maritime, petrochemical, power, security, agriculture and offshore industries. The Trelleborg Engineered Fabrics division works across technologically advanced industries to produce polymer-coated fabrics worldwide. By developing the optimum solution for your application we go further to engineer the fabric of industry.



### PRODUCT OVERVIEW

Critical to the success of international military and humanitarian operations is the mobilisation of large quantities of fuel and water. Trelleborg provide a range of easy to transport and rapidly deployable bulk liquid storage solutions for use in the most extreme environments.

Trelleborg flexible tanks are a standard, internationally recognised method used by both military and humanitarian organisations for temporary storage and distribution of large quantities of fuel and water.

The collapsible tanks are quick to deploy and a very flexible storage option, ideal for environments where it can difficult to establish a more permanent metallic tank.

One of the most challenging problems for fuel and water storage is the harsh environments where conflicts or relief operations are now based.

These flexible tanks are manufactured from specially developed rubber-coated textiles which are specifically designed to offer high abrasion and fuel resistance. The units can withstand extremes of temperature and have been used in both tropical and arctic conditions.



### FEATURES & BENEFITS

- Durable and able to withstand harsh conditions
- Manufactured from high-quality materials
- Flexible and easily deployed
- Built to an internationally recognised military standard
- Available in a wide range of specifications

**Strong and reliable under harsh conditions,** Trelleborg flexible tanks have been designed to offer high abrasion, UV and fuel resistance. Able to withstand extremes of temperature they are suitable for use in both tropical and arctic conditions.

The units are constructed from high strength woven fabrics coated with high quality specially engineered compounds, providing a strong and durable liquid container. The materials have been designed to have high tensile strength with excellent tear and puncture resistance.

**Flexible and easily deployed** in any environment - where there is need for temporary liquid storage flexible tanks can be deployed quickly and filled on site and are available with all accessories needed to receive and deliver the fuel or water to generators, vehicles and helicopters, etc. Once the application is complete they can be emptied, cleaned and stored for later use.

**Built to international standards for any environment** - access to potable water is essential logistics for both military and humanitarian operations, particularly in arid environments. The flexible nature of the tanks allows large quantities of water to be stored and distributed safely.

**Available in a range of specifications depending on requirements** - ranging in capacities from 1,000 up to 1,000,000 litres, Trelleborg flexible tanks are supplied in different material specifications depending on storage requirements and contained fluids such as fuel, potable or non-potable water. As part of a large consortium of companies Trelleborg can also supply pumps, filter systems, pipe work and connections.

**Other products** - Trelleborg also provide other products for use alongside flexible tanks including bund liners, ground sheets and UV covers bund liners - used in conjunction with flexible tanks they provide a reliable containment around tanks to prevent fuel spillage.



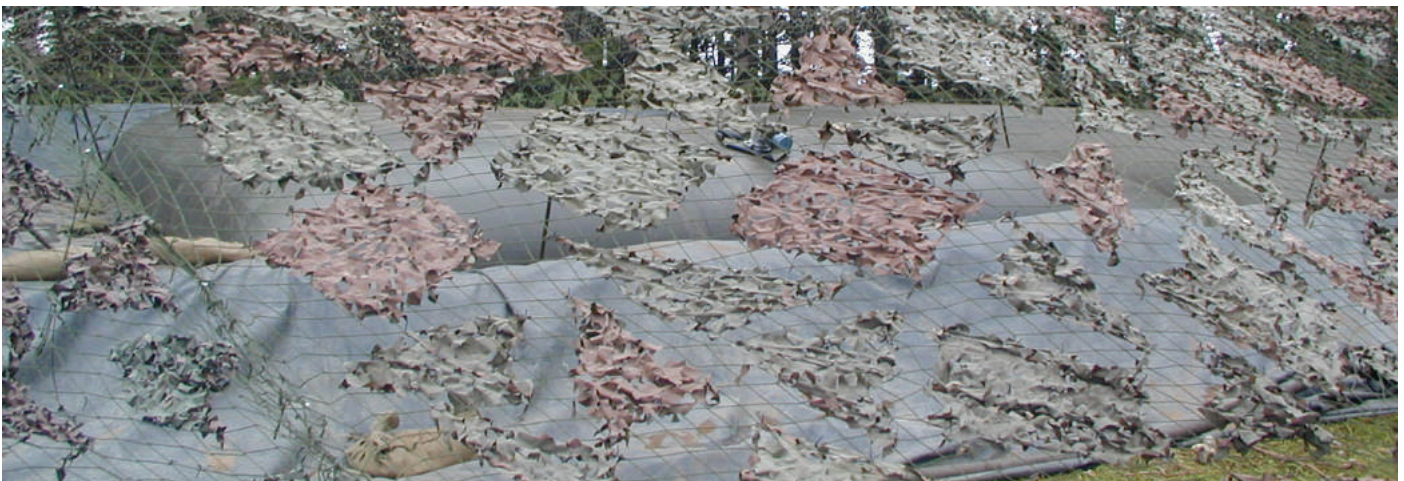
## APPLICATIONS

Trelleborg flexible tanks have been in use in **military** and **NATO-lead** missions as well as **humanitarian** operations around the world. Used in theatres of operations such as **Iraq** and **Afghanistan**, these units are able to meet the challenge of providing fuel and water storage solutions in harsh environments that are difficult to access and where temperatures and dust are a major problem.

Manufactured to internationally recognised military specifications, Trelleborg flexible tanks are critical to the success of military bulk fuel distribution networks.

Purpose built Polar Flexi Tanks have also played a key role in storing and transporting fuel in 'the Coldest Journey', a recent **Antarctic** expedition where flexible tanks withstood temperatures as low as minus 90°C.

Trelleborg flexible tanks provide a wide range of flexible liquid storage and distribution applications and are an essential component to military and relief operations worldwide.



## GENERAL DESCRIPTION

**Heavy Duty Rubber** – for the demanding requirements of the military environment specifically designed to meet British defence specification DGFLS279 with an operational life of 7-10 years

**Standard Rubber** – a lighter weight fabric design to store distillate fuel oils with up to 40% aromatic content, with an operational life of 5-7 years.

**TPU** – coated high tenacity polyester woven fabric designed to store aviation fuel and diesel, with an operational life of 3-5 years.

**PVC** – a Non-toxic PVC-coated high tenacity polyester woven fabric for potable water, with an operational life of 3-5 years.

CAPACITY (LITRES)	LENGTH (M)	WIDTH (M)	HEIGHT (M, WHEN FULL)
5,000	4.30	2.60	0.70
10,000	5.10	3.45	0.80
25,000	7.55	4.33	1.10
50,000	8.50	6.06	1.40
100,000	11.70	7.79	1.50
200,000	19.80	7.79	1.50

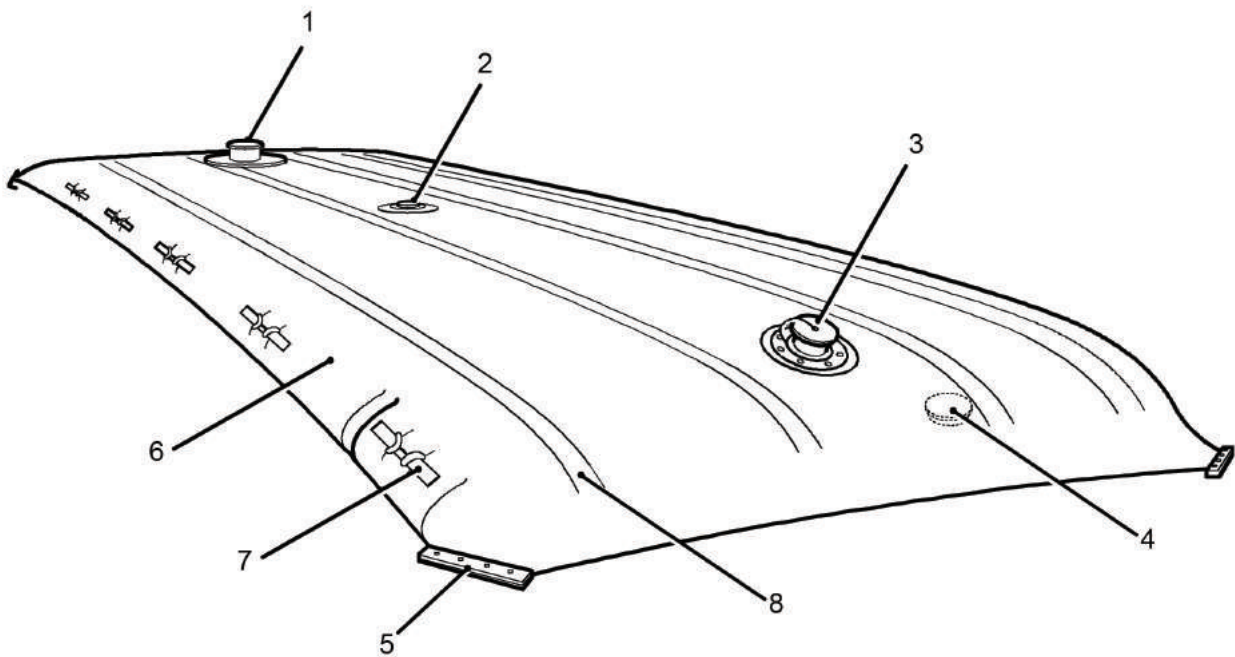
Sizes vary depending on materials and applications, above sizes are for guidance only!

All tanks are made to order; we have a standard range and can tailor sizes and accessories to meet with your specific requirements. We can manufacture tanks up to 800,000 litre capacity; flexible tanks having a capacity of more than 200,000 litres can require non-standard fittings. Please contact our sales and technical team to discuss your job specific requirements to ensure you get the best possible service from your tank.

### Accessories

- Pumps
- Filter systems
- Pipework
- Connections

## TYPICAL ASSEMBLY



- 1 Outlet connection - oval
- 2 Combined vent & dip connection
- 3 Inlet connection - round
- 4 Drain connection - under at each end

- 5 Corner clamp joint
- 6 Fabric tank
- 7 Handle
- 8 Seam



Trelleborg Flexible Containment Solutions is part of the Engineered Fabrics division of Trelleborg, a world-leading engineering group developing advanced polymer technology solutions that seal, damp and protect people and processes. With 100 years of experience and continual research, we engineer the fabric of industry through customised and pre-conceived solutions adapted to your exact application.

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