

# efusion®

## Epoxy coated steel tanks



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efusion™ is the brand name for Balmoral Tanks' in-house fusion bonded epoxy coated steel tank product range. The system provides a proven and highly resistant coating for an extensive range of storage applications.

efusion is an electro-statically applied, thermo-set system that ensures the highest percentage plate coverage possible as well as offering an extremely durable finish. All Balmoral efusion panels are tested in accordance with internal quality procedures prior to despatch and meet or exceed industry test standards including:

ISO 12944	EEA 7.24
WIS 4-25-01	EEA 7.25
ISO 28765:2008	AWWA D103-97
EEA 7.20	WRAS

efusion offers significant design life benefits by providing best value engineering solutions to storage tank requirements. The company's design and manufacturing process delivers cost benefits to tank structures by using enhanced design calculation and manufacturing efficiencies.

As Balmoral offers a full turnkey service clients benefit from working with a single source manufacturer from enquiry to installation and commissioning.







# Specification

The global liquid storage and treatment market demands specification compliance both in terms of tank coatings and structures. The key to understanding specification requirements lies in early, clear communication to ensure a fully compliant solution is delivered.

With more than 35 years' core experience in the bolted tank industry Balmoral's focus when reviewing specifications is always to be compliant while also advising on additional solutions that may offer benefits including engineering and installation design, added value cost saving opportunities, health and safety requirements, etc.

Balmoral Tanks' expertise and global experience is a key marketplace differentiator and is unrivalled in the industry.

## Design life

With value engineering at the heart of material selection, Balmoral Tanks' efusion coating meets all necessary design life expectations. Key factors in achieving optimum product performance begin with the design and manufacturing process, running right through to installation. Retaining in-house control and quality in each of those critical areas is vital in ensuring consistent high levels of performance of any coated steel tank.

Balmoral's efusion system, and its inherent performance properties, ensures the end user receives the best design life expectancy available. The company's quality assurance standards and installation experience delivers a robust product that is more than capable of design life performance.

## Applications

Epoxy coated tanks are used in the following sectors, amongst others:

- Wastewater storage
- Sludge/sewage treatment
- Potable/clean water storage
- Anaerobic digestion
- Leachate treatment
- Demineralised water storage
- Agricultural slurry storage
- Aquaculture
- Biomass/biofuel storage

## Balmoral Tanks offers...

- The most durable bolted tank coating on the market: efusion
- The most efficient bolted structural shell designs
- Direct communication with the source manufacturer
- Design through installation services delivered by a single team
- 35+ years' global experience of core competencies





# Balmoral Tanks

Balmoral Tanks is a leading European tank design and manufacturing company. A division of Balmoral Group Holdings Ltd the company produces what is believed to be the most comprehensive range of tank products available from a single source in the EU.

Civil engineering, fire fighting, potable/non-potable water, anaerobic digestion, biofuel, biomass, wastewater treatment, desalination and drainage are all key sectors for the company. Balmoral also offers a wide range of associated technical services including installation, inspection, repair and maintenance.

## Why choose Balmoral Tanks?

At Balmoral Tanks, customer focus is a recognised value. It's not aspirational, it is real and every member of the team understands its meaning and more importantly, how they can positively influence it. Customer focus is an 'attitude' which permeates the organisation.

To ensure this mind-set is sustained a number of initiatives have been put in place. A range of customer-driven key performance indicators are measured regularly while a weekly service level score is generated from every part of the business and shared across the company.

These internal service performances are cross referenced via Balmoral Tanks' innovative customer programme known as 'Net Promoter Scoring'. This initiative allows regular monitoring of important and added-value solutions being delivered to customers.

Additionally, the Balmoral 'Big Team' concept operates to a set of core values and standards that reinforce the company's customer promise and ensures all team members understand how important their contribution is.

This level of customer care, complemented by unrivalled manufacturing assets, leading industry personnel and effective management sets Balmoral Tanks apart in the global water industry. To put it another way, Balmoral Tanks is not just another tanks company.

## Design capability

Balmoral Tanks benefits from being part of Balmoral Group Holdings Ltd and the huge support infrastructure that offers. The group also supplies subsea buoyancy, elastomer and insulation products to the global deepwater oil and gas industry.

It is this depth of expertise, particularly in reference to epoxy-coated and in-situ concrete products, that differentiates Balmoral's engineering and design teams from any other tank manufacturer in the world.

The company's design team is always happy to advise clients on the best options for their project and by having such a wide product portfolio substantial savings are frequently made by choosing the correct product for the job.

The vast majority of Balmoral Tanks' products are accredited and approved by numerous agencies: BSI, LPCB, BAFSA, British Water and WRAS to name but a few. In gaining these accreditations Balmoral has raised the integrity and standards of the tank industry around the world.

## Project management

With over 30 years' experience in managing the design, manufacture and installation of liquid storage and treatment products - using the latest management tools and standards - Balmoral Tanks' project management team works closely with clients to deliver on time and on budget.

The company trains its projects team to recognised global competency standards to address the growing management requirements from order placement through to delivery and installation.



Balmoral Tanks, Barnsley, England



Balmoral Tanks, Llantrisant Business Park, South Wales

# Balmoral Group

Established in 1980, Balmoral is a diverse privately owned operation specialising in subsea buoyancy, flotation, insulation, elastomer and renewable energy products; civil & environmental engineering liquid storage/treatment solutions and property development.

At Group HQ in Aberdeen the company has invested in a pioneering subsea product design and manufacturing facility that includes laboratory, design engineering, toolmaking, production, project management and testing facilities that are unrivalled in the industry.

In Llantrisant, South Wales, Balmoral Tanks runs a highly specialised design and manufacturing business providing hot press GRP and steel sectional tanks as well as cylindrical steel tanks for the global water storage and fire-fighting sectors. Balmoral Tanks' Barnsley facility designs and produces the company's efusion® and digestore® epoxy coated and concrete tanks respectively for the water, wastewater and anaerobic digestion markets.

Balmoral Park Ltd is the company's property development division. Covering some 18 acres Balmoral Business Park is home to three auto dealerships; Audi, Mini and Nissan, and features a 40,500sq ft high-specification office pavilion.

These individual business units are run by defined management and operations teams that are wholly responsible for their unit's profit and loss activity.

The Group is dedicated to a policy of continuous improvement and to providing the highest quality of products on a global basis.



For full product details, tank sizing,  
project case studies and white papers  
visit [www.balmoraltanks.com](http://www.balmoraltanks.com).

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