



JBAR (Joint Bund and Raising) **MODULAR FLOOD DEFENCE SYSTEM**



Defend against flooding

Flooding is becoming an increasingly problematic issue for many businesses with essential assets; such as sub-stations, external plant and machinery. These assets need protection from the damage water can cause. For sites that store oil and other hazardous materials within these assets, apart from water getting in, there's also the risk of these substances getting out, causing pollution to the surrounding environment and leaving businesses open to fines.

Our newest flood defence system, JBAR, provides a permanent solution to stopping flood water in its tracks and can help prevent spills from entering surrounding ground and watercourses.

24/7 EMERGENCY RESPONSE
0800 592 827
www.adlerandallan.co.uk

JBAR – A MODULAR APPROACH TO PROTECTING YOUR ASSETS

JBAR is a unique system designed to protect key assets, such as utility compounds, sub-stations, external plant and associated structures. Developed initially to deal with oil containment, JBAR, featuring an integrated sump, is a dual purpose product, which can retain and/or withstand fluids from either side.

Highly flexible, JBAR is available in various, lengths, heights and shape configurations, making it suitable for a wide range of applications. Specification is based on our Flood Risk Assessment, a process which will determine flood risk now and up to 100 years in the future.



JBAR BENEFITS

- **JBAR** can be easily modified on-site to suit unforeseen conditions
- **JBAR** is a modular system that can be adapted in length and height
- **JBAR** is fabricated from non-conductive material in short lengths, making it ideal for the protection of sub-stations and other electrical installations
- **JBAR** can be used for both flood defence and spill containment

Adler and Allan's expert team will install JBAR, which is either fixed to an existing concrete slab or masonry curb, or self-supporting in the JBAR Flexi-Bund version, as well as completing any other civil engineering works required on-site, such as trench excavation.

TOTAL DEFENCE

To provide complete protection, JBAR can be used in conjunction with Adler and Allan's protective coatings and linings delivering a long-term solution to hazardous spill containment.

Our polyurea spray lining is the toughest and most durable protective coating available, providing an effective way of preventing deterioration and extending the life of a range of structures by forming a waterproof and chemical barrier.



TECHNICAL DETAILS

- **Product properties:** JBAR's wall and corner units are fabricated from GRP and the compressible joint material from EDPM. Each interface is sealed together with Rallithane adhesive sealant for water tightness. All of these materials have a high resistance to chemical degradation.
- **Size:** JBAR is available in standard heights of 300 mm, 600mm, 900, and 1,200 mm. There is also a 1,600mm non-standard version.
- **UV resistance:** Any material which is exposed to UV light will discolour and become brittle with time. The JBAR system can be coated to delay these effects.
- **Electrical conductivity:** GRP, from which JBAR is constructed, has virtually no electrical conductivity, when compared to other materials. The JBAR system is normally designed for hydrostatic pressures, but it can be designed for wave forces if required.
- **Guarantees and warranties:** JBAR and its components come with a 10 year warranty against manufacturing defects and each installation has a five year warranty. Annual inspections thereafter are available to extend the warranty.



JBAR IN ACTION

The Project: UK Power Networks Services stores oil filled electrical equipment adjacent to a roadway and relatively close to the runway at Gatwick Airport, posing risks such as oil leaks in close proximity to a water course and within an identified flood zone. Adler and Allan was asked to propose solutions to address these risks that would not interfere with traffic on the road, and with minimal detriment to the environment.

Project Solutions

- Installation of Joint Bund and Raising (JBAR) system
- Creation of a sump with an oil discriminating pump, discharged through Adler and Allan's Sockit filtration system
- Protective lining applied to the base area of the bund, preventing ground-surface absorption.

The Outcome

Works were carried out quickly and efficiently, with the end result being an environmentally friendly installation thanks to reduced time, plant and materials and therefore, carbon footprint. The client was able to re-site the equipment within a contained area after only four days.



National Coverage



With highly trained teams, specialist equipment and vehicles, and a nationwide network of depots, the Adler and Allan Group has grown to become one of the UK's leading emergency response service providers and oil and environmental services specialists.

- Waste Facility
- A&A Service Centre
- Alliance Partner



JBAR is just one part of Adler and Allan's total flood and spill protection services, which include:

- Flood Risk Assessment
- Flood mitigation, including flood defences and plans
- Emergency flood and spill response
- Post-flood/spill clean-up
- Ground investigation and remediation

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