

BARRIER



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BARRIER is a fully modular containment system, designed for rapid installation, reusability, and easy decontamination in constrained environments.

BARRIER is a fully modular containment system invented for multiple use cases. Stainless steel panels present a smooth, uninterrupted, non-absorbent surface toward the interior of any contained zone. Developed for maximum reconfigurability, standard panel sizes meet any space requirement.

Designed for a range of use cases - **BARRIER** is currently being used to provide containment during decommissioning and decontamination operations on a UK nuclear licenced site. Other use cases include containment of during sludge removal, laser ablation, as temporary offices, and for processes within other industries.

Improved user experience - All panels have been designed to be liftable by a single person. A whole structure can be constructed and removed by individual technicians with hand tools. **BARRIER**, can be installed efficiently with minimum complexity, allowing focus on the works being completed within the contained space rather than the difficulty of constructing temporary structures.

Cost Efficient – Bespoke structures can be designed quickly and are manufactured to high precision for problem free erection, in house at Barrnon. The fully stainless steel panels are a cost effective alternative to competitive products.

Key points

- Easy to decontaminate
- Reusable and reconfigurable for different project demands
- Quality - meets EN1090 and nuclear quality grade 3
- Structural - meets BS EN 1991-1 Eurocode 1
- Rapid assembly and disassembly
- All panels are a one-person lift
- Built for a wide range of uses
- Efficient to build even in tight spaces
- Cost efficient and roughly 2/3rds the price of leading competitors
- Precisely engineered and manufactured, panels produce a stack tolerance of +/-5mm over 7m
- Variant panels can be used for doors, windows and ventilation
- Standard panels are 3ft wide by 3ft tall



Barrnon Specialities

- Nuclear decommissioning solutions
- Sludge waste handling specialists
- Nuclear fabrication
- Concept to close-out in house
- Patented technologies
- Environment characterisation
- Rapid prototyping
- Plastic and metal 3D printing
- VR control of robotics
- CAD design

Capabilities

- **BARRIER is a temporary containment structure designed to last for decades. The system consists of modular stainless steel panels**
- **Operations are now cost effective and rapid to install, allowing process works to begin as soon as possible**
- **The system's durability enables repeat use over many decades. The modular conception itself makes the system adaptable to a wide range of use-cases and environments**
- **BARRIER's structural integrity ensures the system is capable of spanning large distances of over 7 metres**

Barrnon's core activity is technology innovation, resulting in a product portfolio of bespoke nuclear decommissioning systems, tools, end effectors and robotics.

BARRIER is the most recent example of Barrnon's repeat- departure from "business as usual". With this latest innovation, Barrnon offers clients an end-to-end containment structure solution. **BARRIER** is a robust, stainless steel modular containment product designed for rapid installation, in a range of industrial sectors. Manufactured for efficient decontamination during decommissioning **BARRIER** is endlessly reuseable.

The panels are available in a range of sizes making it possible for the client to specify a containment structure meeting precise dimension. The containment volumes specified by the client can therefore be built to suit the requirements of specific operations such as size-reduction and decontamination. Variant panels integrate features such as services, plant access doors, personnel doors and windows. Custom sized and modified feature panels can be designed and manufactured on demand. **BARRIER's** largest self-supporting roof span is 7 metres, if a containment area of over 7 metres is required then additional support structures can be added.

BARRIER provides an excellent user experience both during the assembly phase and thereafter during the exploitation of the containment. **BARRIER** provides maximum flexibility and adaptability for clients and multiple decade reusability.



For more information on BARRIER

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