SUSTAINABLE MOULDING SOLUTIONS

OAKLANDS PLASTICS

CASE STUDY

PROJECT:

Site security, construction and pedestian area segregation

SITE DETAILS:

Hinkley Point C Nuclear Power Station

PRODUCTS:

Oaklands RB22 Crash Tested Barrier System

Oaklands Heavy Duty Barrier Systems

Oaklands Light Duty Barrier Systems

Hoarding & Panel Solutions

Accompanying Gate Options for both Pedestrians & Vehicles

HinkleyPointC
Helping Britain Achieve Net Zero

'Powering Britain Forward' Delivering Hinkley Point C

The Challenge

On a construction site the size of Hinkley Point C, organisation isn't just helpful, it's mission-critical. With thousands of operatives, heavy plant, and multiple contractors all working concurrently, the environment demands constant structure.

The development of Hinkley Point C represents a major step in the UK's long-term energy strategy. As one of the country's flagship nuclear new-build projects led by EDF Energy, it combines scale with complexity - and that complexity extends well beyond engineering. Day-to-day site management requires adaptable systems that can keep up with shifting work zones, new phases of construction, and strict safety protocols.

A key issue across the project has been maintaining consistent site control despite constant change. Work areas expand, contract, and relocate as progress is made, meaning boundaries cannot be fixed. At the same time, different levels of risk exist across the site; from general access areas to highly controlled zones requiring restricted entry. Without clear, physical separation, the potential for disruption or safety incidents increases significantly.

To meet these challenges, Oaklands has delivered a broad mix of barrier and access solutions, including Lightweight and Heavy Duty Barriers, RB22 systems, Barrier Hoard panels, and Steel Accessories such as pedestrian and vehicle gates. Rather than serving a single function, these products are used collectively to create a structured, responsive environment across the site.

Creating Order in a Moving Environment

One of the defining features of Hinkley Point C is how frequently layouts need to change. In response, lightweight barrier systems are used extensively to mark out walkways, temporary routes, and short-term exclusion zones. Their portability allows site teams to react quickly - adjusting layouts in real time without slowing progress.

In contrast, heavy duty barriers are positioned where greater resilience is needed. These are typically found in areas exposed to plant movement or higher impact risk, where a more robust form of protection is essential. By combining both lightweight and heavy-duty options, the site benefits from a balance of flexibility and strength.

The RB22 system adds another layer of adaptability. Its modular design means it can be configured in multiple ways, supporting everything from pedestrian guidance to more structured segregation. This versatility makes it a practical choice across different phases of the build, reducing the need for multiple specialist systems.

Barrier Hoard panels are introduced where stronger visual and physical separation is required. These solid partitions help define operational zones, shield ongoing work, and prevent unauthorised access to sensitive areas. In a busy, high-risk environment, that clarity plays a crucial role in keeping activities organised and predictable.

Access points are managed through Steel Accessories, including integrated pedestrian and vehicle gates. These allow movement to be channelled through specific entry points, improving control without creating unnecessary friction. Whether managing foot traffic or plant access, having defined gateways helps maintain both safety and efficiency.

While the immediate focus is on construction, Hinkley Point C is ultimately about long-term environmental impact - delivering reliable, low-carbon energy for decades to come. Oaklands Plastics supports this broader goal through its own approach to manufacturing.

By incorporating recycled materials and operating a closed-loop production model, the company reduces waste and maximises resource efficiency. The durability of its products further contributes to sustainability, as longer lifespans mean fewer materials are needed over time.

A Practical Contribution to a Complex Project

The use of Oaklands' barrier systems at Hinkley Point C highlights the value of adaptable, integrated solutions in large-scale infrastructure delivery. By combining mobility, strength, and control, these products help bring structure to a site that is constantly changing.

In an environment where safety, timing, and coordination are tightly linked, having reliable systems in place makes a measurable difference. Oaklands Plastics' role in supporting Hinkley Point C demonstrates how effective site management tools can quietly underpin the success of even the most complex construction projects.

Case Studies – Disclaimer: The safe deployment of Oaklands products will depend on site-specific factors and relevant regulations. It is important to follow the guidance in the Technical Specification Data Sheets.