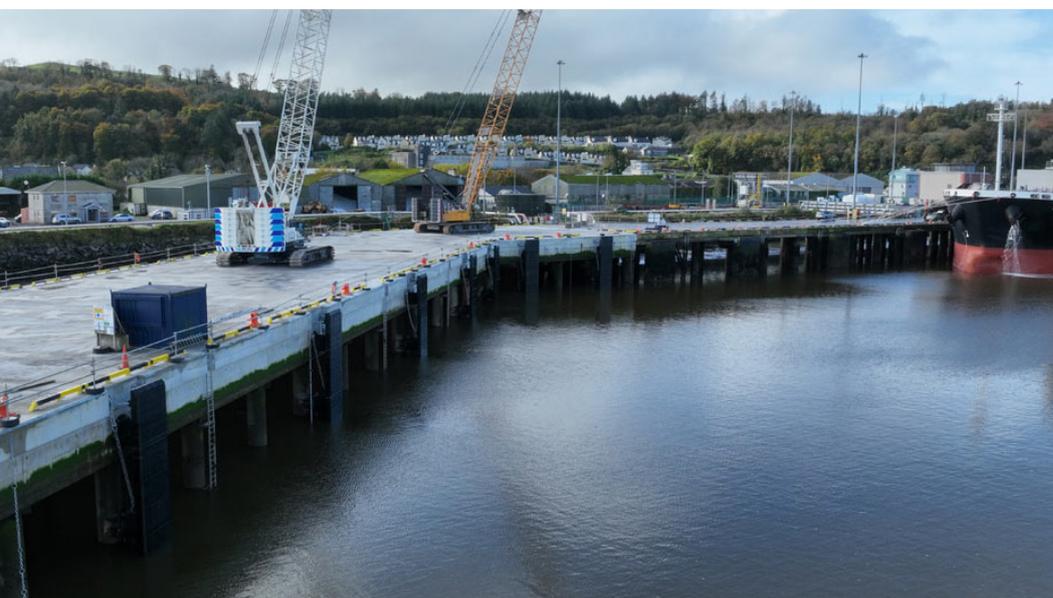


## Double Cell Fender Configuration

East Jetty & West Coast Extension, Foynes, Ireland



**Application**  
General Cargo Terminals

**Type**  
CSS Cell Fenders

**Date** 2025

**Reference** 0180

### A CLOSER LOOK AT THE CASE

Shannon Foynes, **the country's second-largest port**, expanded to enhance its position as an international logistics hub. The two-year project added 117 meters of jetty length, supporting the offshore renewable development and easing congestion at Dublin Port. This investment reinforced the Shannon Estuary's **strategic role in Ireland's supply chain for the energy transition**.

To equip this new infrastructure, we supplied 7 sets of Double CSS Cell Fenders 1000 with closed-box steel panels (7600x2000 mm) and 70 mm thick UHMW-PE pads. Additionally, 11 steel ladders, 11 safety chains, and 181 meters of steel toe rail were provided to ensure safe access and operations at the port. The project scope also included 7 Horn Bollards, each with a 100-ton capacity.

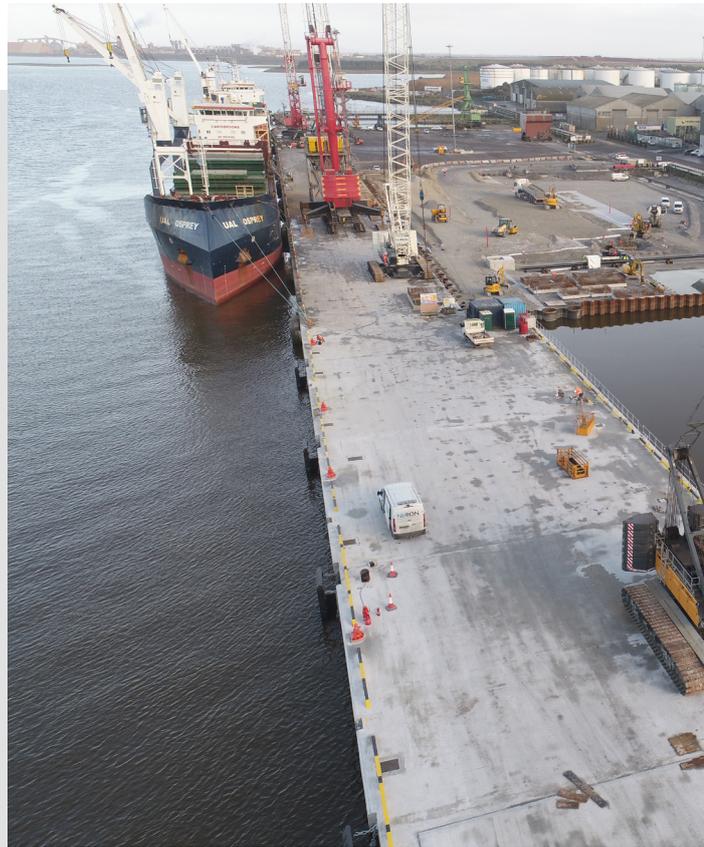
#### Project Scope

- ▶ 7 sets of Double CSS Cell Fenders 1000 with closed-box steel panels (7600x2000 mm)
- ▶ 70 mm thick UHMW-PE pads
- ▶ 11 safety chains
- ▶ 7 Horn Bollards with 100t
- ▶ 11 steel ladders
- ▶ 181 meters of steel toe rail

## CHALLENGE AND SOLUTION

To withstand the Ports tidal variations, large fender panels were required, prompting our engineering team to design a Double Cell Fender solution that **maximizes energy absorption and stability**. A custom flange securely fixed the lower fender to the combi wall. **For added durability**, the UHMW-PE pads were secured with capnuts, **providing additional shear resistance**.

Alongside these engineering solutions, steel ladders and safety chains **grant safe access for personnel**, while the 181-meter steel toe rail **reduces the risk of falls and protects both people and vehicles**. Following best practices for secure marine infrastructure, these features not only highlight the port's focus on safety and operational efficiency but also reflect our dedication to maintaining operations on the safe side.



East Jetty & West Coast Extension | Foynes | Ireland

The Shannon Foynes expansion project was a major milestone in the Vision 2041 plan, **reinforcing the estuary's position as a global center** for floating offshore wind and strategic freight logistics.

At ShibataFenderTeam, we are committed to delivering high-quality solutions that support the port's growth, with safety and reliability at its core. Explore more SFT Case Studies or Contact Your Nearest Office.

