

4 Unique Seabed Attachments

New Ferry Terminal, Kalundborg, Denmark



Application
Ferry & RoRo Terminals

Type
Pile Fenders

Date 2025

Reference 6010

A CLOSER LOOK AT THE CASE

Samsølinjen, operated by Denmark's largest ferry company Molslinjen A/S, connects the vacation island of Samsø with Kalundborg, a **strategically located town in the center of the country**. Following the relocation of some services, Samsølinjen now departs from a different berth in Kalundborg Port. To support this relocation, the existing berth underwent a **comprehensive refurbishment** to accommodate ferry operations. The project placed emphasis on **reusing as much of the existing infrastructure as possible**.

In this context, SFT collaborated closely with Molslinjen to design and deliver a customized fender solution. The scope included four Pile Fender Systems — each weighing approximately 16 tons — consisting of Double Cone Fenders (SPC 800, G2.1) and extra-large steel panels measuring 3,700 × 11,545 mm. Two additional Double Cone Fender Systems (SPC 800, G2.1) were also supplied, each with closed box panels sized 2,400 × 4,400 mm and weighing around 7.5 tons.

Project Scope

- ▶ 4 Pile Fender Systems — Double Cone Fenders (SPC 800, G2.1) with extra-large steel panels 3,700 × 11,545 mm
- ▶ 2 Double Cone Fender Systems (SPC 800, G2.1) with closed box panels 2,400 × 4,400 mm

CHALLENGE AND SOLUTION

Working within the constraints of the existing geometry made the engineering phase particularly complex. The **most critical challenge** lay in designing the system's substructure — **a task with no room for standard solutions.**

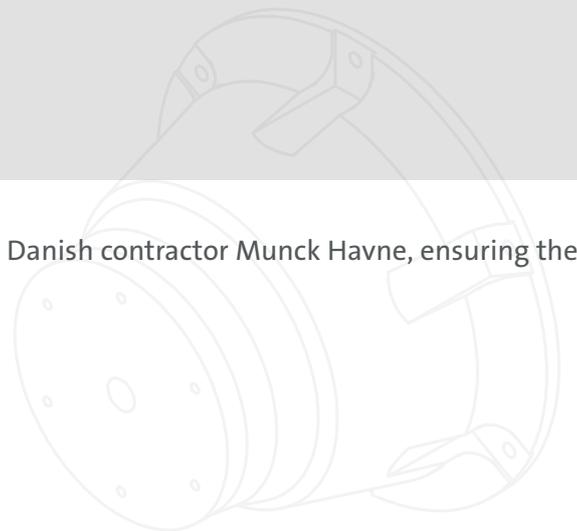
Each of the four Pile Fender Systems — already a highly customized solution — required a unique attachment design due to variations in the seabed across the berth; the two additional systems also needed **specially designed steel substructures** to connect with existing anchor points from the former berth setup.

Completing the systems engineering, all fender panels — both on the Pile Fender Systems and the Double Cone Fenders — incorporated an **oversized chamfer** on one side, engineered to prevent the vessel's beltings from catching during berthing operations.



New Ferry Terminal | Kalundborg | Denmark

Installation at Kalundborg Port was carried out by the experienced Danish contractor Munck Havne, ensuring the smooth delivery of this **technically demanding project.**



SFT's key to success lies in our holistic approach: blending technical know-how, project-specific insight, and the expertise of our in-house engineering team to develop fully customized fender systems. Explore more SFT Case Studies or Contact Your Nearest Office.

