

Special Anchors Design

Multipurpose Terminal, Puerto Williams, Chile



Application
Multipurpose Terminals

Type
CSS Cell Fenders

Date 2024

Reference 1262

A CLOSER LOOK AT THE CASE

Puerto Williams, the world's southernmost populated city, sits on the Beagle Channel and serves as the capital of the Chilean Antarctic Province. The city enhanced its infrastructure with the construction of a **new multipurpose dock designed to accommodate the growing number of scientific and tourist vessels** navigating the channel. The project completed its initial stage, which involved the construction of a **130-meter front head** for mooring, loading, and unloading of passengers and goods.

Working in partnership with the contractor, ShibataFenderTeam delivered 10 sets of Cell Fender Systems (CSS 1450, G1.4) and 10 sets of Cell Fender Systems (CSS 1700, G1.0). The project scope also included 13 T-Head bollards, each with a 30-ton capacity.

Project Scope

- ▶ 10 Cell Fender Systems (CSS 1450, G1.4)
- ▶ 10 Cell Fender Systems (CSS 1700, G1.0)
- ▶ 13 T-Head bollards capacity 30t

CHALLENGE AND SOLUTION

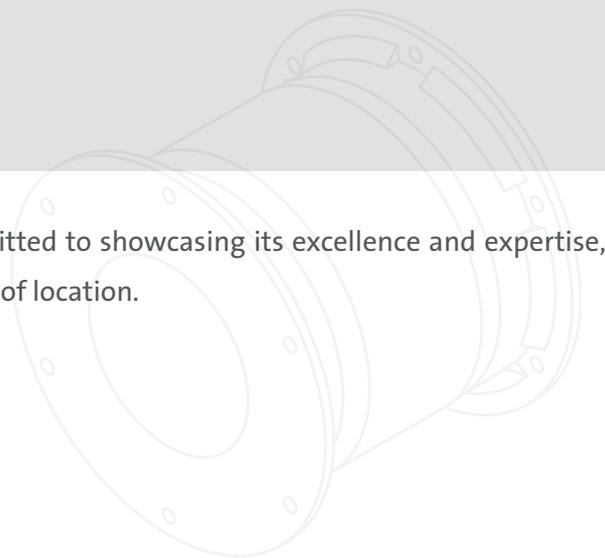
Challenges emerged early in the project due to the **limited concrete of the substructure**. The SFT in-house engineering team designed a custom solution, proposing special anchors that span through the structure to safely secure the systems.

Additionally, the extreme **cold weather required careful material considerations**. Selecting the appropriate grade of rubber, for example, ensured it would stiffen less, thereby maintaining optimal energy absorption and preserving the fenders' performance.



Multipurpose Terminal | Puerto Williams | Chile

At the doorstep of Antarctica or elsewhere, SFT remains committed to showcasing its excellence and expertise, ensuring the **highest standards of safety and quality**, regardless of location.



The construction of the multipurpose dock holds significant tourism and logistical importance for the region, known as the Chilean gateway to Antarctica. Explore more SFT Case Studies or Contact Your Nearest Office.

