CINTEC
REINFORCEMENT SYSTEMS

Case Study

Strengthening a dock wall under water:



Port du Quebec

Quebec, QC

Project Highlights

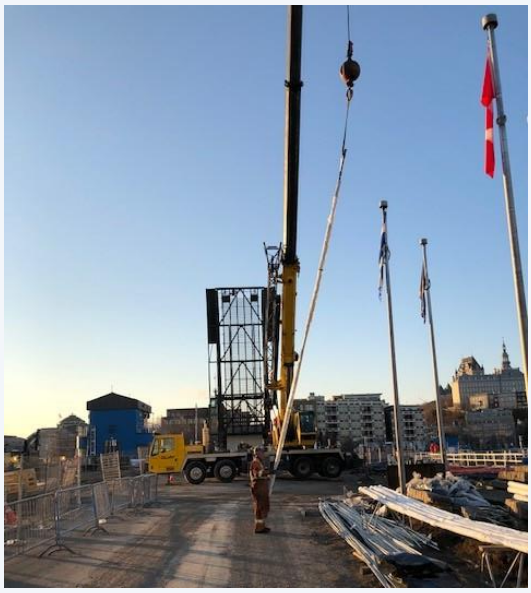
Exists since the early 17th Century

The outcome:

Vertical strengthening of some areas of the port

Completion date: 2019

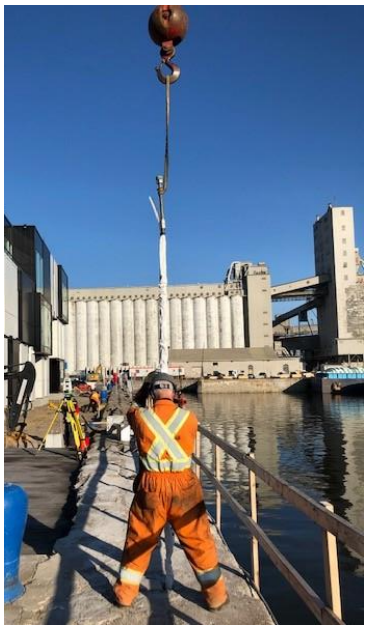
About 50 Cintec anchors installed



Owner: Government of Canada
Operator: Quebec Port Authority
Engineer: WSP Global

The Port of Quebec, located in Quebec City, is the oldest port in Canada after the Port of Montreal. With its strategic location and excellent navigational conditions, **the port plays a vital role in connecting Quebec City to major international markets.**

In the 19th century, the Port of Quebec was considered one of the most important ports globally. **It played a major role in the development of both Quebec City and Canada**. In 1863 alone, over 1,600 ships passed through the port, carrying nearly 25,000 sailors.



The requirement was to provide **vertical strengthening** in two areas of Quai 5-14N of the Port of Quebec.

Anchors were designed to be 1 1/4" in diameter, composed of #30M 2205 stainless steel reinforcing bar, with lengths ranging from **25 feet (7.5 m) to 30 feet (9 m)**.

The anchors were fitted with 4-inch (100 mm) sock and **installed by use of a crane into drilled cored holes of matching diameter**. Placement was completed by the injection of Presstec© grout.

The implementation of these anchors was crucial in **ensuring the structural integrity and stability of the port infrastructure**.