

## PORT DE QUEBEC

Quebec City, Canada



Areas where Cintec anchors installed

The Port of Quebec (French: Port de Quebec) is an inland port located in Quebec City, Quebec, Canada. It is the oldest port in Quebec after the Port of Montreal.

Owned by the Government of Canada and operated by the Quebec Port Authority, the port has been in existence since the early 17th Century.

In the 19th century, the Port of Quebec was one of the most important in the world. It played a major role in the development of both the city and of Canada. In 1863, more than 1,600 ships went through the port, transporting almost 25,000 sailors. It was during this era that the shipbuilding industry grew considerably in Quebec City.

In the 20th century, the dredging of the Saint Lawrence River between Quebec City and Montreal moved major port activities upstream. Today cruise traffic has replaced much of the former freight traffic.



In the summer of 2019 Cintec was contacted by Jhon Páez, Senior Structural Engineer Ports, Marine and Coastal of WSP Global Inc – an international engineering firm with over 50,000 employees in some 500 offices serving in 40 countries worldwide.

The requirement was for vertical strengthening in two areas of Quai 5-14N of the Port of Quebec as shown in top photos. As determined, anchors were to be a 1 1/4" diameter, #30M 2205 stainless steel reinforcing bar with overall anchor lengths of 25 feet (7.5M) to 30 feet (9 M) long. 48 anchors were fitted with 4 inch (100 mm) sock and installed by use of a crane in drilled cored holes of matching diameter. Placement completed by injection of Presstec © grout.



Cintec anchors in protective shipping tubes



Cintec anchors hoisted into place by crane



Cintec anchors being placed by installer



Cintec anchors in place prior to inflation