

Piling on support for the Port River Expressway



PROJECT bulletin

Smart Steel Hollow Sections

Orrcon Steel's Intelligent Construction Solutions



Photographs courtesy Department for Transport, Energy & Infrastructure

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QUICKfacts

Project Port River Expressway
Stages 2 & 3

Contractor Abigroup Contractors Pty Ltd

Designers Hardesty & Hanover
Dare Sutton Clarke
Maunsell Australia

Structural Engineers York Civil

Fabricators Samaras
McKechnie Foundary
Falk
Bianco
GK Structures

Orrcon Steel Products **Orrcon Steel Smart Steel Hollow Sections: Large Spiral Welded Pipe 900mm OD**

The Port River Expressway is designed to provide superior access to Port Adelaide's Outer Harbor by allowing road and rail transport to bypass the area's central business district. Integral to the Expressway are 2 x 40 metre, single span bridges which open over the Port River. Abigroup relied on Orrcon Steel Smart Steel Hollow Sections to provide the solid foundations to support these bridges.

Mr. Philip Basile, Construction Manager for Abigroup, the contractor for Stages 2 and 3 of the Expressway, said "There are not many opening bridges in Australia – although there is another in Port Adelaide that is still operating and was opened in December 1940."

With the river bed 11 metres below the surface of the Port River, suitable piles had to be driven 20 metres into the bed to provide the foundations for the bridges to be built upon.

Orrcon Steel supplied 900mm OD spiral welded pipe 13 to 18 metres long that were end joined on site to the required lengths, before being driven into the river bed.

"Once each pipe was driven into the Hindmarsh clay river bed and filled with concrete, construction of the bridge superstructures commenced", Mr Basile said.

As part of Orrcon Steel's quality assurance, staff travelled to Shanghai to inspect the supplying mill and establish its ability to produce pipe on time and within Orrcon Steel's strict guidelines and the client's specifications.

Orrcon Steel Smart Steel Hollow Sections used successfully in the Port River Expressway Stages 2 & 3 foundations reflect Orrcon Steel's commitment to the building and construction industry, and ability to meet exacting requirements in quality, production and delivery.

For more information give Orrcon Steel a call on 1300 677 266



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we'll see it through

