

SPR[®]PE CASE STUDY

SPR[®]PE / RIBLINE[®] SETS WORLD RECORD
IN SYDNEY



RIBLINE[®]

SPR[®]PE technology, incorporating
RIBLINE[®] spirally wound system
by RIB LOC[®]



Client:
Sydney Water

Location:
Sydney, Australia

Application:
Sewer

Partner:
Interflow Pty Ltd

Year:
2010

Product:
SPR®PE / Ribline®

Length:
706 m (2316 ft)

Diameter:
DN 2520 mm (100 inch)



Project Description

The North Georges River Submain (NGRS) is a concrete sewer that runs from the Sydney suburbs of Fairfield to Arncliffe. It was constructed in stages between the 1940's and 1960's and in some parts was gas attacked and in need of rehabilitation. A part of the sewer that required renewal was a 706 m (2316 ft) long section between two access chambers.

The Opportunity

Two significant technical challenges had to be overcome in order to deliver a successful solution for this project; the development of a large diameter structural liner and a method to install exceptionally long, continuous liners between existing access chambers.

The Solution

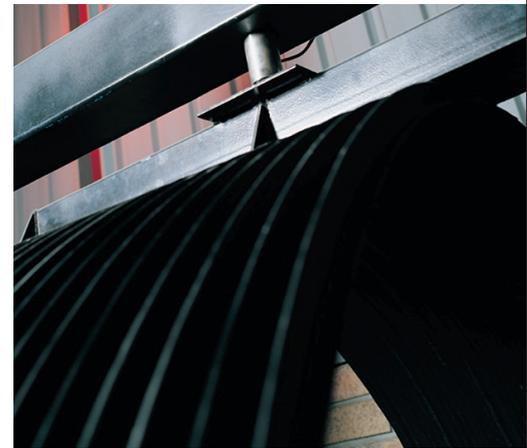
SPR®PE / Ribline® is a unique steel reinforced spirally wound high density polyethylene liner with a high strength to weight ratio. This makes it possible to renew large diameter pipes cost-effectively.

Liners are produced using a fixed machine positioned within existing access chambers. Given the unique requirements of this project, an innovative technique was developed to aid in the installation of extraordinarily long continuous liners. All liners were installed with live flow running constantly as the sewer had to remain in operation at all times. .

The Outcome

Within this project SEKISUI Rib Loc Australia and Interflow safely delivered the world's longest and largest continuous spirally wound liner. The liner was 706 m (2316 ft) long, 2400 mm (100 inch) in diameter and weighed 120 tons (265,000 lbs).

This partnership successfully provided the client with a solution to a challenging problem and in doing so has extended the boundaries of trenchless large diameter pipeline rehabilitation beyond the limits of what was previously considered possible.



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