

SPR[®]RO CASE STUDY

RENEWING DN 1275 mm (51 inch) SEWER
IN PORTLAND, OREGON



ROTALOC[®]

SPR[®]RO technology, incorporating
ROTALOC[®] spirally wound system
by RIB LOC[®]



Client:
City of Portland

Location:
Oregon, USA

Application:
Sewer

Partner:
James W. Fowler Co.

Year:
2021

Product:
SPR®RO / Rotaloc®

Length:
230 m (750 ft)

Diameter:
DN 1275 mm (51 inch)



Project Description

The Carolina Sewer Repair Project involved the rehabilitation of over 230 m (750 ft) of DN 1275 mm (51 inch) cast-in-place monolithic concrete sewer located along S Macadam Avenue between S Mitchell Street and S Sweeny Street in the City of Portland, Oregon.

The Opportunity

During the design phase, USA distributor, SEKISUI SPR Americas (SSPRA) and SEKISUI Rib Loc Australia (SRLA) worked with the City of Portland and their consultant Brown and Caldwell to review the project scope, constructability challenges and key objectives of the rehabilitation method to be specified. The key drivers for the project were to provide a fully structural repair solution that was able to maintain hydraulic flow capacity.

The Solution

Based on the review, SPR®RO technology, incorporating the Rotaloc® spirally wound system by RIB LOC®, was found to be the ideal lining technology for this project, as it produces a structural tight fit liner that does not require annular space grouting.

Furthermore, as the SPR®RO / Rotaloc® winding machine is able to adjust diameter during the winding process, it was able to negotiate all bends through the line and install a liner that met all hydraulic requirements.

With a small construction footprint and the ability to install liners in live flow typically without the need for temporary bypassing, the city sole sourced this project using spiral wound technology.

The Outcome

Working 24/7 shifts to avoid the forecast onset of strong wet weather conditions, the combined site team including members of the installation contractor, SSPRA and SRLA needed less than one week to mobilize, set up, install the liner, and complete the finishing details.



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