CASE STUDY
SPR™EX

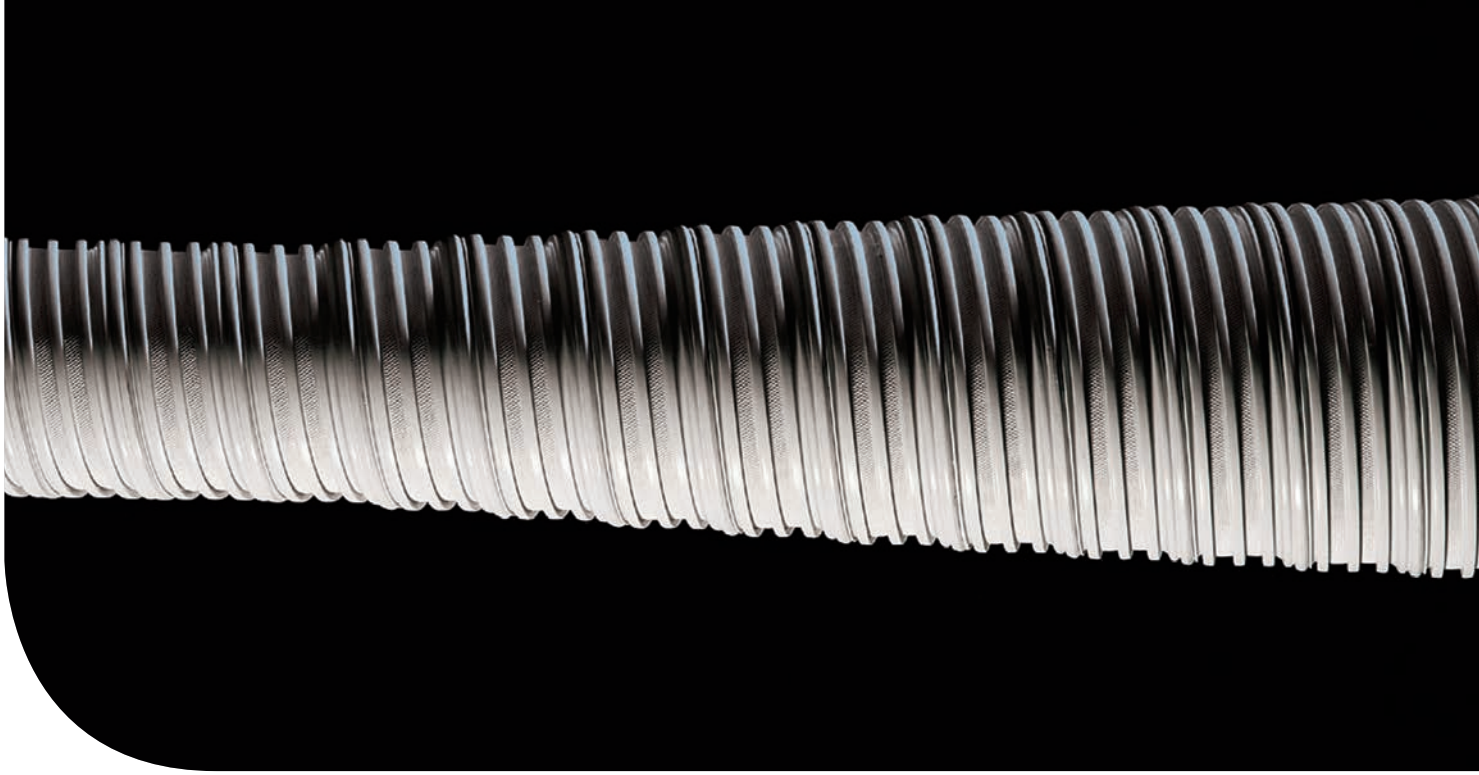
HONG KONG, CHINA
DN150 – 375 (6 – 15 in), 5 – 10 m (16.4 – 32.8 ft)

Installing SPR™ EX on Hong Kong's steep slopes

Many of Hong Kong's residential apartment blocks are built on the steep slopes that are a feature of the island. As the sewers serving these residences age, there is a danger that leaking pipes will increase the landslide risk.

The problem:
Sewers serving residential apartment blocks in older parts of Hong Kong are reaching the end of their useful life. Replacement is not an option because of their difficult locations. The Geotechnical Department of Hong Kong has specified that the pipes should be lined to prevent exfiltration.

Typically the sewers have short lengths and are very steep.



The solution:
Difficult access means most lining systems are impractical for this type of project.

This allows SPR™ EX to demonstrate an important benefit. Lining equipment is light enough to be manually carried from the service vehicles and set up at manholes. No excavation is required.

The project:
Over 200 pipelines have been rehabilitated with SEKISUI SPR rehabilitation products as part of the Housing Department's programme of slope protection.

Many of these sewers lie in very steep, almost inaccessible slopes, with manholes often 20 m (65.6 ft) to 50 m (164 ft) above the street level. Pipelines are typically only 5 m (16.4 ft) to 10 m (32.8 ft) long, with gradients as great as 45 degrees. Diameters range from 150 mm (6 in) to 375 mm (15 in).

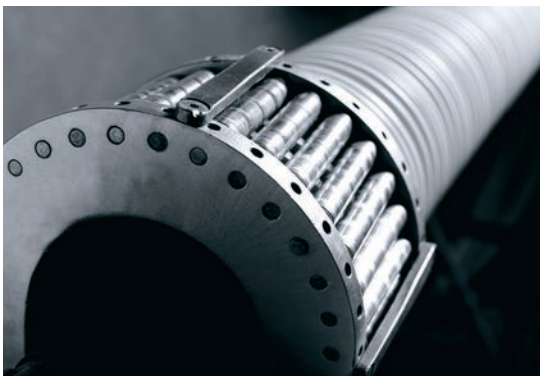
For the installation crew, the most time consuming part of operation is carrying and setting up the winding equipment. Sometimes the steepness of the slope means that a temporary platform must be erected to provide a stable base for the tripod holding the winding machine.

In these situations SPR™ EX provides particularly important advantages as inversion towers and boilers are not required for liner installation.

Once setting up is complete, an SPR™ EX liner can be installed and expanded in a matter of minutes. Bypass pumping is not needed, and the process causes minimal disruption to residents.

Despite the difficult conditions, the installation crew averaged 2–3 pipeline lengths per day.

info@sekisuispr.com
www.sekisuispr.com



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