

— LEIGH ON SEA COASTAL PROJECT • SOUTHEND COUNCIL, UK

# HMWPE WALL MOUNTED FLAP VALVES



**Objective:** To replace old and rusted Flap Valves that were no longer fit for purpose.

**Solution:** Fernco HMWPE Flap Valves were the ideal solution for this job.

Southend Council faced a significant issue with several aging cast iron Flap Valves along the seafront from Leigh-on-Sea to Shoeburyness. These valves had deteriorated over the years, with some flaps completely detaching and others stuck shut, preventing surface water from draining into the sea. This blockage posed a risk of flooding, especially during heavy rainfall, as the existing underground overflow tank could quickly fill.

Acknowledging the problem, the Council contacted Marlborough Highways for a solution. Upon inspection, they discovered that some of the existing Flap Valves were attached to metal sheet piling. Because of the corrugated design of this metal piling, the new Flap Valves required a flat surface so that it could be mounted and installed correctly.

To address this, subcontractor Robert & Sale provided metal plates to cover the sheet piling, ensuring the

secure installation of the new Fernco Flap Valves. Fiona Macan, the Area Sales Manager for the Southeast, was actively involved throughout the project, attending multiple site visits to specify the appropriate Fernco Flap Valves and ensure they were installed correctly. Over three days, a series of Wall Mounted Flap Valves ranging from 100mm to 250mm were successfully installed.

The new Fernco Flap Valves now allow surface water to drain into the sea while preventing backflow flooding during rising water levels. Made from durable HMWPE material, these Flap Valves are lightweight and maintenance-free ensuring long-term protection against backflow flooding for up to 50 years.

Reflecting on the project, Mark from Robert & Sale said "The job went really well, the Flap Valves fitted perfectly and now look great with no chance of corroding."

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