

Weymouth Sewer Flooding Alleviation Scheme, Wessex Water.



Design, manufacture & install 3 no Steinhardt Combi DR200 Hydroslide Flow Regulators.

The Brief

The Weymouth and Portland area has some separate sewer systems but is predominantly served by combined sewer systems where sewage from homes and businesses, highway water, rainwater are collected together in the combined system. Under heavy storm conditions, where the sewer conveys both wastewater and storm water, sewer capacity can be exceeded and built in safety valves called consented Combined Storm Overflows (CSOs), will operate to prevent sewer flooding.

The Solution

Jacopa were contracted to manufacture and install the 3 no new stainless steel Combi DR200 FF Hydroslide Flow Regulators, for the newly constructed chambers within the foul sewer network. The Steinhardt Hydroslide units have been installed in great numbers throughout the UK for many years now and these are widely adopted due to their proven performance.

The Hydroslide units for Weymouth were required to deal with a pass forward flow rate varying between 30 l/sec and 35 l/sec, with a maximum hydrostatic head of 1.2m and 2.1m (dependent on each individual chamber in question). Jacopa provided bespoke stainless steel adaptor plates, so each Combi flow control device could be installed within the circular pre-cast concrete chamber. A DN150 bypass stainless steel penstock was also fitted within each chamber.

The Combi Hydroslide is predominantly used in foul sewer applications due to its automatic blockage mechanism, which can be installed in an upstream (inlet) or downstream (outlet) configuration. The float is installed inside of the main body, which reduces its overall size and also the required space within the chamber to operate. Models are available to control flows for 8 l/sec up to 250 l/sec.

Weymouth Sewer Flooding

- Contracted directly by Wessex Water to supply our goods & services
- Established and trusted Hydroslide product, adopted by the UK water companies
- Foul sewer application, with requirement for automatic blockage release function
- Low maintenance – manufactured in stainless steel, with brass bearing for longevity