

# Case Study

## Holdenhurst Sewage Treatment Works, Dorset

**Client:** Wessex Water

**Main Contractor & Anchor Installer:** [Westwick Construction / Clancy Docwra](#)



### PROJECT SPECIFICATION

To provide an anchored base to a new storm tank (approx 60m x 40m) capable of resisting floatation forces when the tank is empty.

### SOLUTION

The prevailing granular soil lying below the site provided ideal conditions for the efficient performance of mechanical anchors. Following testing to determine precise specification, anchors were installed vertically through a thin blinding and pre-stressed to the required load (ultimate 125kN), prior to construction of the reinforcing mesh and subsequent concrete pour. Once completed, the top fittings were completely encased within the tank base.

**Anchor Systems:** B06TB aluminium bronze anchor c/w 10m of 20mm Ø threaded stainless steel rod, stainless steel load plate and load nut.

**Quantity:** 260

**Anchor Design Life:** 60yrs

**Soil Type:** Granular

