

# Case Study



## RNLI STATION, SILLOTH, CUMBRIA

**Client:** RNLI  
**Consultant:** W A Fairhurst  
**Contractor & Anchor Installer:** Southbay Civils Ltd

### PROJECT SPECIFICATION

The existing loose ballast roadway extending from the bottom of this concrete slipway to the low water level was in need of repair. A more robust and durable solution was required to reduce long term maintenance costs and improve the lifeboat deployment and response time in an emergency.

### SOLUTION

The existing route was prepared and an articulating concrete block revetment system was laid providing a new uniform and level roadway. To prevent any movement and uplift, caused by storms or tidal surges, the revetment mattresses were secured in position using mechanical anchors. Each anchor was installed, at 0.5m intervals, using simple hand held power tools. The speed and simplicity of the solution allowed the new structure to be secure and fully operational again within a few days.

**Anchor System:** S06EA aluminium alloy anchor c/w 1.4m of 4mm Ø stainless steel wire tendon, 135mm x 175mm stainless steel dished revetment plate & 4mm recessed wedge grip.

**Quantity:** 156    **Anchor Design Life:** 25 years    **Soil Type:** Estuary mud/sand

