



Case Study

PRUDHOE STATION, NEWCASTLE

Client: Network Rail

Consultant: White Young Green

Contractor/Anchor Installer: Roger Bullivant/CH Steavenson Ltd

PROJECT SPECIFICATION

This wall retains made up ground, carries the east bound tracks of the railway and forms the basis of the station platform. Retaining to its full height of 3m the wall was exhibiting signs of rotational movement and was, in places, leaning as far as 360mm out of vertical. Remedial work was required to stabilise the wall from further rotational movement and possible collapse.

SOLUTION

Forty-seven 170mm diameter core holes were first cut through the wall on calculated centres and 20° below the horizontal. The anchors were then installed to a driven depth of 8m. Each anchor was then loaded and locked off against the facing wall using an inverted patress plate. The patress plates were used to provide an aesthetically pleasing finish in keeping with the heritage of the structure.

Anchor System: B04TB aluminium bronze anchor c/w 9m of 12mm Ø stainless steel wire tendon, 330mm Ø aluminium bronze inverted patress plate & 12mm stainless steel wedge grip.

Quantity: 47

Anchor Design Life: 100yrs

Soil Type: Made ground/fill

