

Case Study

PEMBURY HOSPITAL

Client: Maidstone and Tunbridge Wells NHS Trust

Main Contractor: Expanded Ltd/Laing O'Rourke

Consultant: Gifford **Approved Installer:** [Topbond Plc](#)

PROJECT SPECIFICATION

As part of the construction of a new £225M hospital, slope stabilisation was specified to allow a slope to be steepened, to enable construction to proceed within the cramped site. Laing O'Rourke's design team were keen to explore the use of mechanical ground anchors in the sandy ground encountered on site.

SOLUTION

Testing revealed that the sand encountered on site had a very high internal angle of friction, enabling a relatively small anchor to be used while still achieving a high load. An indemnified design with details of anchor specification, installation depth and surface finish was prepared by Platipus' Geotechnical Engineer which was then reviewed by both Laing O'Rourke and Gifford.

Anchor System: S06EB aluminium bronze anchor c/w 4m of 6mm Ø stainless steel wire tendon, finished with a 200mm x 200mm stainless steel load plate and 4mm stainless steel wedge grip.

Quantity: 240

Anchor Design Life: 120 yrs

Soil Type: Sand

