

CASE STUDY

RETAINING STRUCTURES



OVERVIEW >>>>

The **timber crib retaining walls** at Stirling Business Park had deteriorated significantly, causing **localised bulging, loss of stone fill and partial collapse of the wall face**. Investigations found extensive decay of exposed timber headers and stretchers, while timbers protected within the stone-filled cells generally remained serviceable. As exposed sections loosened or detached, stone escaped and reduced the structure's integrity.

A remedial solution was required to secure an approximately **290m linear extent with heights between 0.5m and 3m**, containing the existing fill, and preventing further movement without complete reconstruction. **Extremely restricted access,**

Stirling Business Park,
Rochester, Kent - UK

Platipus Structural Anchors

nearby foundations, buried services and the site boundary also had to be considered when developing the stabilisation scheme.



SOLUTION >>>>

To accommodate varying wall heights, ground conditions, and site restraints, **an anchor scheme comprising 1,041 Stealth and BAT anchors** was developed. The anchors were installed through galvanised steel mesh and non-woven geotextile using a combination of handheld breakers, tracked machinery, and Brokk Machines.



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Each anchor was **proof tested to loads ranging from 5.5kN to 31.9kN** before being loadlocked at its working load. Stainless steel load plates were secured against the steel mesh, while a second plate terminated within the gabion basket tied them back to the mechanical anchor.

This provided a **practical, cost and time-effective permanent solution** that stabilised the existing timber crib wall and retained the stone fill without requiring complete reconstruction.



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