

Case Study

WHITE LION CLOSE, SUMMERHILL, WREXHAM

Client: Wales & West Housing Association Ltd

Consultant: Adams Consulting Engineers Ltd

Contractor & Anchor Installer: Churchman, Fenner & Brown Ltd

PROJECT SPECIFICATION

This 2.5 – 3.5m high boundary wall extends some 50m behind a row of eight houses and runs adjacent to the highway. Retaining to its full height with a further panel fence on top, it was exhibiting signs of stress cracking and had rotated out of vertical enough to cause concern to the local residents. Remedial work was required to repair the cracks and anchors were used to stabilise the wall from further rotational movement and possible collapse.

SOLUTION

CF&B carried out all site works including the local repair of brickwork, core drilling and anchor installation. Sixty-five 95mm diameter core holes were cut through the wall on calculated centres before the anchors were installed to a driven depth of 8m. Each anchor was then loaded and locked off against the wall facing using a stainless steel load plate, tilt washer and recessed wedge grip. The finishing touch to this aesthetically pleasing solution was a smooth stainless steel domed cap. The anchor installation was designed and indemnified through Platipus®.

Anchor System: S08EB aluminium bronze anchor c/w 9m of 12mm Ø stainless steel wire tendon, 200mm x 200mm stainless steel load plate, tilt washer & 12mm stainless steel wedge grip.

Quantity: 65 **Anchor Design Life:** 120 yrs **Soil Type:** Made ground over clay

