



## Bar Flex and Heli Pile Repair For Garden Retaining Wall

At the request of Borough Council Engineers Target surveyed this site to establish the causes of this failure and provided a cost effective solution utilising the Heli Pile and Bar Flex systems.

Although the wall had been built with sufficient weep holes they were not working. This allowed an excessive build up of water pressure every time it rained. The fact that the wall was originally built "battered" back was probably the only reason it hadn't totally failed. From foundation level to 6 courses above ground the wall is 18" thick and is toothed in at the corners. Above this point the wall thickness reduces to 13.5", it was at this point that the wall was rotating.

Where the Heli Piles were to be installed bricks were removed and holes cored through the remainder of the wall allowing the installation of the Heli Piles. Slots were cut in the bed joints at the same level allowing the Bar Flex reinforcement to be installed and mechanically connected to the Heli Piles. The brick that had previously been removed were cut into slips and replaced leaving an invisible repair. All Heli Piles work in both tension and compression and are all proof tested in-situ on site.

