

# Subsidence Problems? We can solve them for you.



**City  
Structural  
Limited**

CSL: Overcoming subsidence problems with Chance Piles and the Helibeam System



## Case Study

We Offer Affordable, Quick & Easy Installations...



When foundation settlement has resulted in cracked or buckled walls the Chance Helical Pile Foundation System, combined with the Helibeam System of Masonry Repair and Reinforcement, offers a technically superior and cost-effective alternative to more expensive, disruptive and time consuming methods of stabilisation that require extensive excavations. Our team will assess the situation and design repairs based on individual ground conditions. CSL will supply and rapidly install the systems

### Economically and efficiently overcoming subsidence and settlement problems

- Ideal for private houses
- Rapid contract times with minimum disruption
- Quick & easy installation with hand-held drive head
- Minimal noise
- No vibration
- Minimal spoil removal
- Typically just a 750x750mm pit required
- Reversible action possible
- Solid high tensile steel shaft
- Typical ultimate load up to 220kN per pile
- A safety factor of 3 achieves 7 tonnes per pile
- Economical cost per tonne load
- Loaded with hydraulic jack to ensure no further property settlement
- Complete turnkey package
- Backed by Helifix Professional Indemnity insurance



### Chance Pile

Following minimal excavations to the foot of the foundations at predetermined spacings, a notch is cut to support the pile bracket. The helical pile is then 'screwed' into the ground into stable subsoil until the required torque is achieved. Adjustable 'L' shaped brackets are fitted to the piles and under the foundations and jacked up to achieve the correct loading, preventing further settlement and transferring the weight of the building to the piles.



### Helibeam System

To repair and reinforce the building structure, stitch cracks and spread the loads by forming masonry beams between the piles, stainless steel helical bars are bonded into channelled out mortar beds. This fully concealed non Disruptive repair retains the existing brickwork and stabilises the masonry.



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**Main Office:** Apartment 204, 1 Eastfield Avenue Wandsworth, London SW18 1FQ

**Office mobile:** 0780 226 2922

**Phone:** 020 3380 2471

**Email:** [sales@citystructural.co.uk](mailto:sales@citystructural.co.uk)

**citystructural.co.uk**