



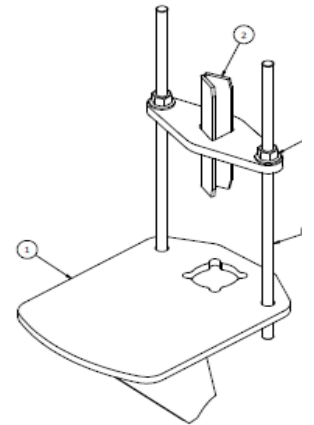
## Foundation Repairs - Underpinning

Properties affected by subsidence are increasingly common. This can be due to new buildings and extensions being constructed on insufficient foundations, or with shallow footings on clay soil. ABC Anchor have developed a system that can stabilise the subsidence and, in some cases, lift the building back to its original level.

The process involves digging around the outside of the failed structure to expose the base of the concrete foundation. Pockets are then dug under the foundation at 0.8m-1m centres. Where the pockets have been dug, screw piles are installed to torques in excess of 3kNm, with the piles being screwed down into stable ground. Jacking plates can then be fitted to the piles and lifted using hydraulic jacks. Once all the piles are preloaded equally, the process is complete with the building stabilised and in some cases lifted back to its original levels.

### Technical Information

- For optimal capacity, it is essential to install the Underpinning Bracket beneath the foundation at a position exceeding 50% of the surface area. This placement ensures that the bracket can fully support and reinforce the structure effectively
- The 60R Underpinning bracket is designed to support a maximum capacity of 40kN
- The 76R Underpinning bracket is designed to support a maximum capacity of 70kN



### Key Features

- Can be hand installed for sites with limited access
- Minimal disruption to the property and surrounding area
- Noise and vibration free operation
- Option of lifting sunken foundations

### Examples of when Underpinning is used:

- Supporting foundations in settlement
- Supporting unconsolidated ground
- Areas of ground erosion or disturbance
- Foundations moved due to terrain movement
- Foundations affected by mine working, burst drains, or groundwork disturbance
- Increase in loads or alteration to loadings on existing structures



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