

# Masonry Consolidation & Lateral Restraint

## Stone & Brick Cottage, Bidford-on-Avon, Warwickshire

Client: Private Owner

Completed: 2017

Case Study No: 269

- Structural Anchoring
- Masonry Consolidation
- Lateral Restraint
- Long Term Guarantee

### The Project:

To consolidate, and arrest further movement of, the rear elevation of this stone and brick built 150 year old cottage.



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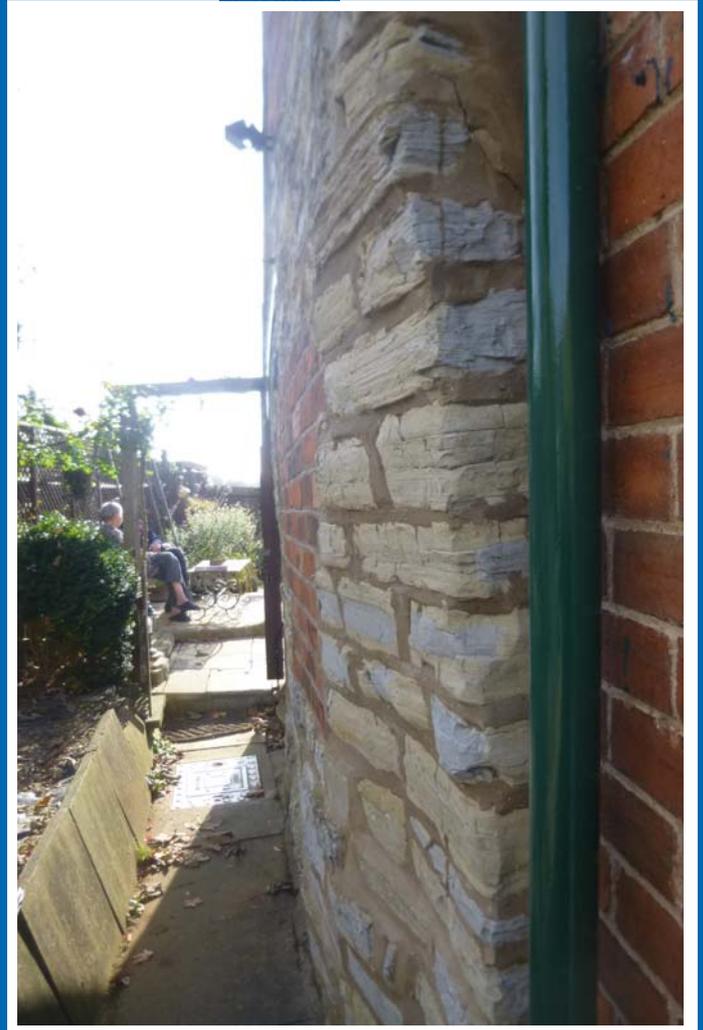
# The Cottage, Bidford-on-Avon - The Problem

This 150 year old cottage in the village of Bidford-on-Avon was suffering from significant delamination and movement of the rear rubble filled stone and brick built elevation.



The problem had been long standing and previous repair attempts, by others, involved the fitting of pattress plates and removing areas of the original stonework to be replaced by brickwork. Both attempts had failed, leaving a large bulge to the rear elevation and separation from the internal abutting wall.

The property owners contacted Protectahome as structural repair specialists to investigate and provide a tried and tested remedial solution to the problem.



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# The Cottage, Bidford-on-Avon - The Solution

Protectahome's highly experienced structural repairs division designed a scheme of Sock Anchoring to solve the issues to the rear elevation.

A combination of 38 No. 425mm and 450mm Helifix SockFix consolidation anchors were installed, in a staggered matrix pattern across the full height and width of the rear original stone built rear elevation, to consolidate both skins of the rubble filled wall.

In addition, 4 No. 1500mm SockFix Anchors were installed through the rear elevation and into the abutting internal wall to arrest further movement by tying the rear elevation back into the internal wall.

Original drilling cores were kept and replaced following the anchor installation to leave an almost invisible repair.

All works were completed on time, within budget and the owner's of the property commented that they were extremely pleased with the works and would return to and/or recommend Protectahome to others for future projects without hesitation.



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