



Helifix has been requested to carry out a visual survey to the buildings on the land south of Rustington Convalescent Home. Development ongoing to the area, introduction of new properties. The existing buildings have signs of cracking, potential delamination and arch failures.

Construction:
External Brick skin, 30mm cavity, 9inch solid brickwork internal.
Listed building.

A Verticality survey will be provided by Macar when made available

Double 6mm HeliBar

Crack Stitch – Single 6mm HeliBar

- ⊗ CemTie 8mm
- ⊕ BowTie
- ⦿ Wall tie

Project:

Title: Helifix survey

Date:
05/01/2026

By:
Dario Paixao

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SUSTAINABLE STRUCTURAL SOLUTIONS

Drawing No:



Front elevation has a noticeable wave like/bulge.
Separation between concrete lintel and brickwork.



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Across the front elevation, no visible signs of cracking, or dropped lintels.

The extent of the bulge will need to be confirmed before applying a Helifix wall tie solution.

The issue with the existing wall ties, their condition will need to be assessed and if necessary, isolated/removed. If the ties are corroding further issues can occur.

Providing the bulge hasn't gone past the point of repair and the substrate is of good condition, WT01 or WT02 is a suitable detail across the affected elevations.

WT01 - 5mm pilot hole, 8mm fixing.

Option to install via internal or external.



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Internally, signs of failed arch's, dropped brickwork.
 Glazed brickwork, thin bedjoint. Not standard 10mm.
 Due to limited access either side of the opening, a traditional HeliBeam cannot be achieved. For this reason, SockFix installed from outside into the internal wall may be a suitable detail.
 M12 anchor.

- Double 6mm HeliBar
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- ⊗ CemTie 8mm
- ⊕ BowTie
- ⦿ Wall tie
- △ SockFix

Project:

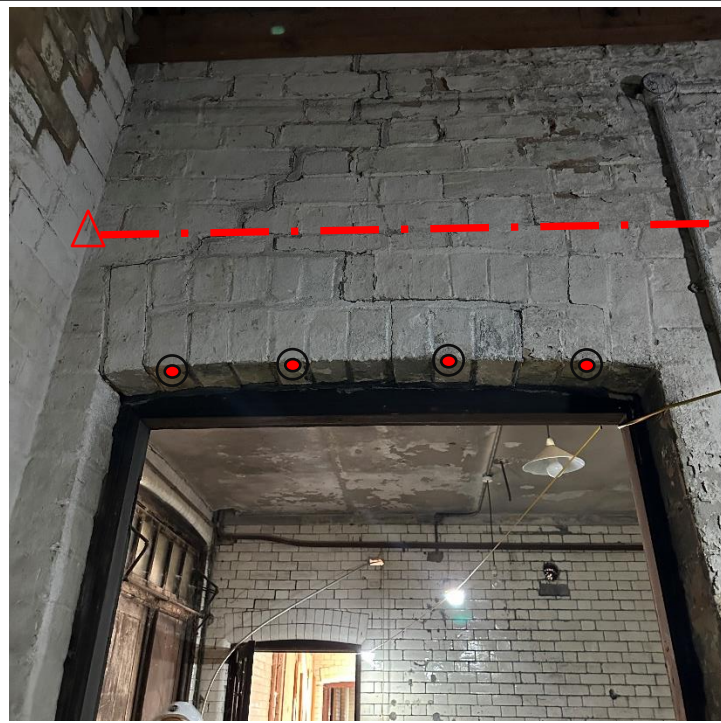
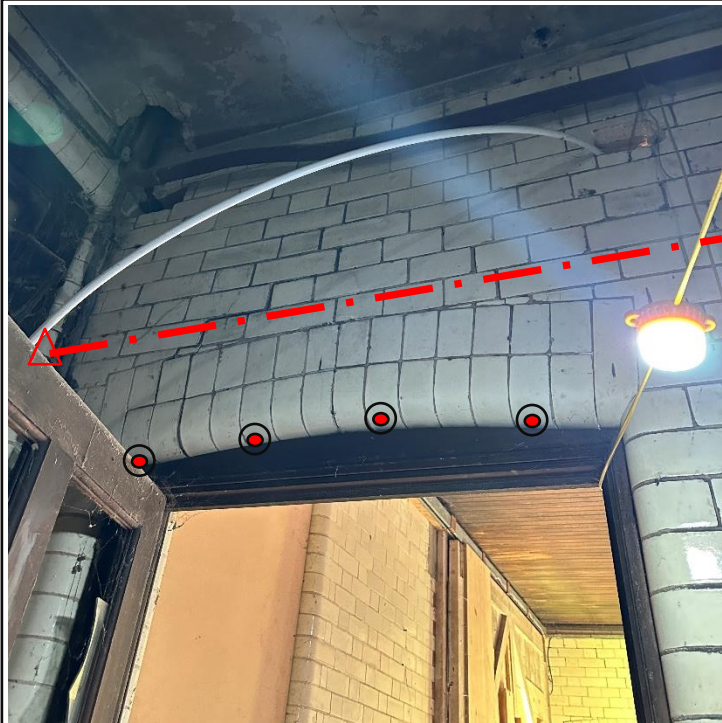
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Where this is enough space,
HeliBeam will be suitable, if not
SockFix as an alternative option
from the external.
RW03 / CS05 where required.

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- △ SockFix

Project:

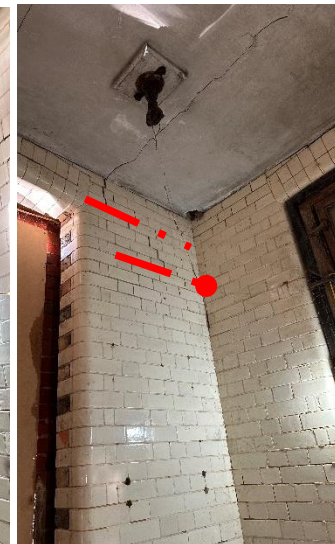
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The rear elevation of the building was visually in sound condition to the front, but again, we will need the results of the verticality survey.

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- ⊕ BowTie
- ⦿ Wall tie

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Drawing No:



Small outhouse on the corner of the site, Missing some mortar. No visual signs of defects.

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Crack Stitch – Single 6mm HeliBar

⊗ CemTie 8mm

⊕ BowTie

⊙ Wall tie

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Drawing No:



Outhouse in the back of the garden area.
No visible defects noted on this building.

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- Crack Stitch – Single 6mm HeliBar
- ☒ CemTie 8mm
- ☒ BowTie
- ☒ Wall tie

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Drawing No:

Reconnecting Near Leaf Masonry to Far Leaf Bricks or Blocks Using DryFix

METHOD STATEMENT

1. Mark the position for the DryFix ties on the face of the near leaf.
2. Drill an appropriate diameter pilot hole (depending on density of far leaf material) through the near leaf and into the back-up substrate, to predetermined depth, using a rotary percussion drill (3-jaw-chuck-type).
3. Fit the special DryFix insertion tool to an electric hammer drill (SDS type).
4. Load the DryFix tie into the insertion tool.
5. Power-drive the tie into position until its outer end is recessed below the face of the near leaf by the insertion tool.
6. Make good the entry hole with matching materials.

RECOMMENDED TOOLING

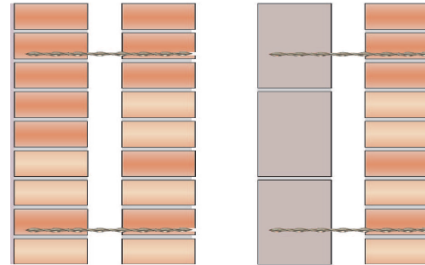
- **For drilling pilot hole**
Rotary percussion 3-jaw-chuck drill
- **For installing DryFix**
DryFix power-driver attachment fitted to SDS rotary hammer drill 650W/700W

GENERAL NOTES

If your application differs from this repair detail or you require specific advice on your particular project or Helifix products, call our Technical Sales Team on **020 8735 5222**.

Our Technical Department can provide you with a full support service including:

- Advice, assistance and recommendations on all structural repair matters
- Devising and preparing complete repair proposals for specific situations
- An insurance-backed warranty via our Approved Installers scheme



Specification Notes

The following criteria are to be used unless specified otherwise:

- A. Length of DryFix ties to be sufficient to accommodate width of near leaf + width of cavity + 75mm.
- B. Diameter of appropriate pilot hole must be evaluated through on site testing.

Typically:

- 5-6.5mm for 8mm diameter tie
- 6.5-8mm for 10mm diameter tie.

IMPORTANT - Where far substrate is harder than the near substrate, then care must be taken to ensure the DryFix is turning 'correctly' during installation. The tie **MUST NOT** turn correctly through the near leaf and then 'wedge' into the far leaf/substrate.

In the event of any issues then an Asymmetric or grouted tie should be considered.

- C. Spacing to be determined by Project Engineer, according to wind load conditions.

Typical Minimum spacing of 900mm horizontally and 450mm vertically, in a staggered pattern.

The above specification notes are for general guidance only and Helifix reserves the right to amend details/notes as necessary.

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Crack Stitch – Single 6mm HeliBar

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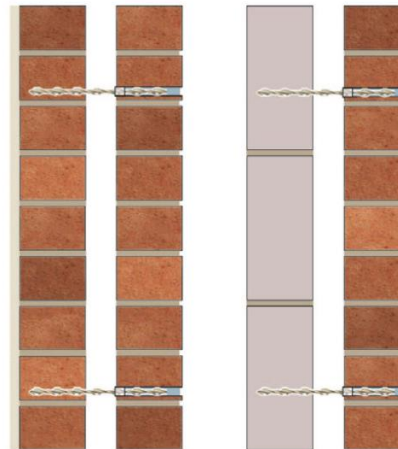
Reconnecting Near Leaf Masonry to Far Leaf Bricks or Blocks Using RetroTies

METHOD STATEMENT

1. Determine the construction of the back-up material and the maximum and minimum cavity widths in the area to be re-tied.
2. Mark the points for RetroTie insertion on the outer face of the brickwork about half way up the brick and around 15mm from the end to avoid frogs and core holes.
3. Drill an appropriate size pilot hole through the near leaf and 80mm into the far leaf. The pilot hole will not be required in the far leaf if the back-up material is aircrete.
4. Widen the pilot hole in the near leaf to create a 12mm clearance hole.
5. Thoroughly blow the dust out of the near leaf hole with an airjet.
6. Load the RetroTie into the support tool, insert through the near leaf and drive home into the far leaf. The 'O' ring marker allows the cavity width to be measured and avoids over-driving.
7. Position the plastic sleeve over the outer end of the RetroTie and slide it down the tie with the support tool until the mark on the tool stem is flush with the outer face.
8. The sleeve seals the hole adjacent to the cavity. Security of fixing in the far leaf can be tested with a Helifix load test unit.
9. Inject PolyPlus resin until the hole is filled. Allow to cure and make good.

RECOMMENDED TOOLING

- **For drilling pilot hole**
Rotary percussion 3-jaw-chuck drill
- **For insertion of RetroTie**
Helifix hand support tool or Helifix SDS Power Support Tool



Specification Notes

The following criteria are to be used unless specified otherwise:

- A. Length of RetroTies to be sufficient to accommodate width of near leaf + width of cavity + 70mm.
- B. Diameter of pilot hole to be determined on site (typically 5 – 6.5mm).
- C. Depth of pilot hole in far leaf to be 80mm.
- D. If an SDS Power Support Tool is used set the SDS drill to 'hammer only', where available.

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