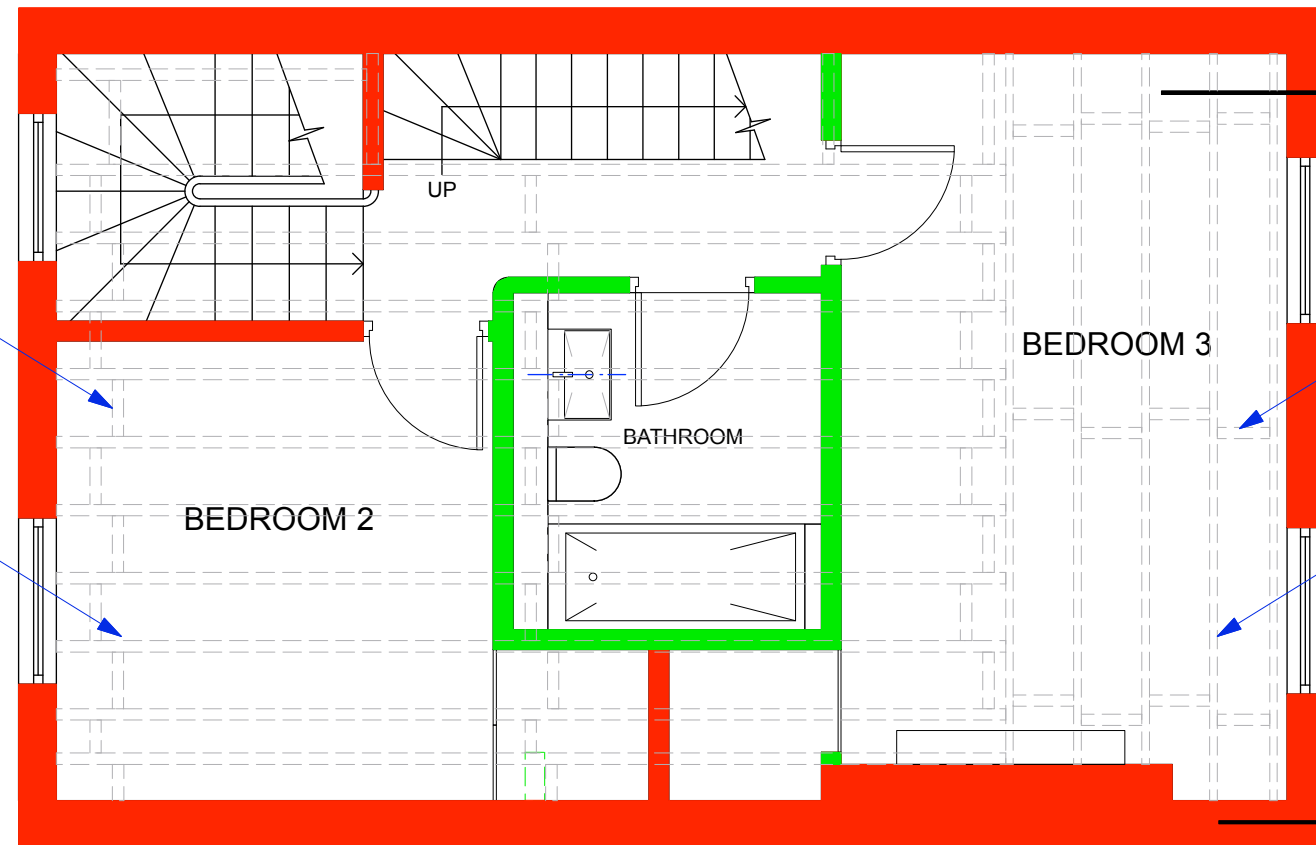


Add new solid timber block strutting at bearing ends and at mid span. Set 25mm below from top of joist to allow for services, pipes, etc

Existing joist

1 SECOND FLOOR RCP
Scale: 1:50



RB02

Add new solid timber block strutting at bearing ends and at mid span. Set 25mm below from top of joist to allow for services, pipes, etc

Existing joist

RW04
'L' Shaped ties

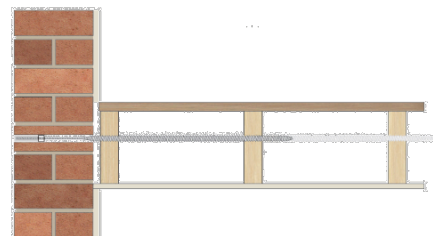
RB02

Restraining a Bowed Solid Wall using BowTie HDs into Joist Side

METHOD STATEMENT

1. Mark the positions for the BowTie HD clearance holes on the external wall.
2. Drill the clearance hole (normally 16mm) through the masonry to line up with the joist in the middle third of the timber away from the edges.
3. Clean out the hole to clear any dust or debris.
4. Fit the driver into an SDS hammer drill, set to rotary only. Insert the BowTie HD into the driver.
5. Screw the BowTie HD through the first and second joists (and the third if specified).
6. Place the sleeve over the tie and push it to the back of the hole in the outer leaf masonry.
7. Inject HeliFix PolyPlus resin into the hole to fill it completely.
8. Allow the resin to gel (normally 15 to 20 minutes).
9. Make good all holes at the surface with brick dust or matching mortar or leave ready for any decoration.
10. Clean PolyPlus tools with a suitable solvent.

N.B. Ensure ceiling void is free of pipes and cables.



RECOMMENDED TOOLING

For drilling and insertion of BowTies.....SDS rotary hammer drill 650/700w
For installation of BowTies.....BowTie HD driver
For injection of PolyPlus resin.....Applicator gun

Specification Notes

The following criteria are to be used unless specified otherwise:
A. BowTie HD penetration into the side grain of the last timber joist must be a minimum of 75mm or the tie should be driven through the joist.
B. The maximum horizontal spacing between BowTies is 600mm.

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

GENERAL NOTES

If your application differs from this repair detail or you require specific advice on your particular project, call the HeliFix 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

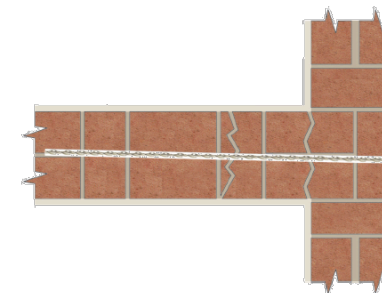
RW04

Reconnecting a Cracked Party Wall to an External Solid Wall using CemTies

METHOD STATEMENT

1. Mark positions for holes on the outer face of the wall.
2. Drill a 16mm clearance hole through the outer wall and to the required depth.
3. Clean out ALL dust from the hole and thoroughly flush with water. Where the substrate is very porous or flushing with water is inappropriate, use HeliPrimer WB. Ensure the hole is damp or primed prior to commencing step 8.
4. Attach the required length of CemTie pinning nozzle to the gun.
5. Mix HeliBond cementitious grout using a power mixer and load into the HeliFix Pointing Gun HD.
6. Pump grout to fill the nozzle.
7. Wind the CemTie into the nozzle and ensure that it is fully covered in grout.
8. Insert the nozzle to the bottom of the drilled hole and pump the grout.
9. Make good all holes at the surface with matching mortar and brick dust make good the crack using an appropriate HeliFix bonding agent depending on the width of the crack or leave ready for any decoration.
10. Clean tools with clean, fresh water.

N.B. If diamond core drilling is used, the internal surface of the hole must be roughened to ensure a good bond.



RECOMMENDED TOOLING

For drilling.....SDS rotary hammer drill 650/700w or diamond core drill
For mixing HeliBond.....3-jaw-chuck drill with mixing paddle
For insertion of the CemTies.....HeliFix Pointing Gun HD with pinning nozzle
For smoothing pointing.....Standard finger trowel

Specification Notes

The following criteria are to be used unless specified otherwise:
A. CemTies are to be installed at a vertical spacing of 450mm.
B. CemTies are to extend at least 500mm past the crack.
C. Depth of hole to be CemTie length +25mm.
D. CemTies are to be installed within the centre third of the wall.
E. In hot conditions ensure the masonry is well wetted or primed to prevent premature drying of the HeliBond due to rapid de-watering. Ideally additional wetting of the hole should be carried out just prior to inserting the CemTie.
F. Do not use HeliBond when the air temperature is +4°C and falling or apply over ice. In all instances the hole must be thoroughly damp or primed with HeliPrimer WB prior to injection of the HeliBond grout.

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

GENERAL NOTES

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ISSUE: DATE: COMMENT:
- OCT 16 Issue for planning and listed building consent

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Job no.	Job title				
1198	4 OVAL ROAD				
Drawing no.	Drawing title				
122.01	PROPOSED WALL PINING				
Scale	Size	Drawn	Revision		
1:1	A3	ML	-		

All works to be in accordance with relevant standards, British building codes, and other relevant codes, and with manufacturers recommendations and instructions. All dimensions to be checked on site. Do not scale from this drawing.