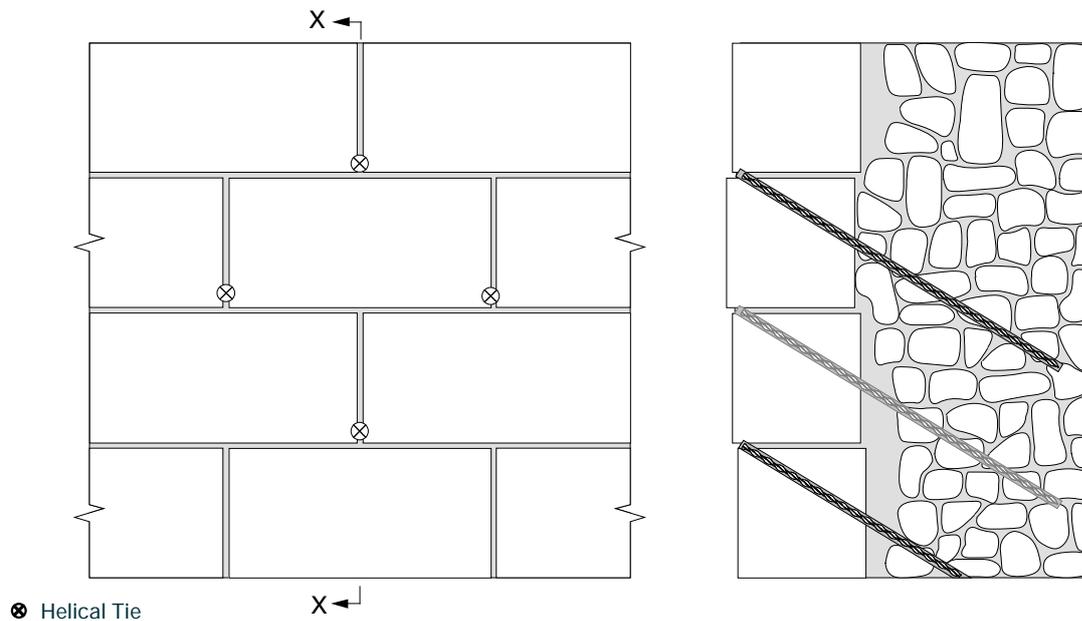




## Repair of Stone Faced Random Stone Walls *Hidden Fix Using Helical Tie Through Mortar Joints*



### METHOD STATEMENT

1. Drill a clearance hole (13 mm-16 mm diameter depending upon material and the length of tie to be used) through stone facing of wall and to required depth into the back-up material. To save marking the face of the stones the hole should be drilled through the perpendicular joint between two adjacent stones. The hole should be angled downwards to pass through the lower stone and then continue into the back-up material.
2. Blow out hole and thoroughly flush with water.
3. Mix cementitious grout and load into gun with required length of correct size extension nozzle already attached.
4. Pump cementitious grout to outlet of nozzle. Insert nozzle to the full depth of drilled hole and pump grout to fill hole. Keep light pressure on gun to ensure that all voids are filled with grout.
5. Wind correct length helical tie into the hole using the insertion tool.
6. Make good at surface of all holes and leave ready for any decoration.

### GUIDANCE NOTES *Unless otherwise specified, the following criteria are to be used:*

- a. Density of fixings will be dependant upon the condition of the stonework and the loading it is expected to withstand. In general density should not be less than 2.5 ties per square metre.
- b. Depth of fixing into backup material to be sufficient to provide a secure hold (prior testing may be required).
- c. Helical tie to be installed at an angle of 30° to 45° to allow a sufficient fixing in stones.
- d. Around openings density to be increased and helical tie placed at 300 mm vertical spacing and 225 mm back from the opening.

*To find out more and to see how we could help you, please contact us*

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