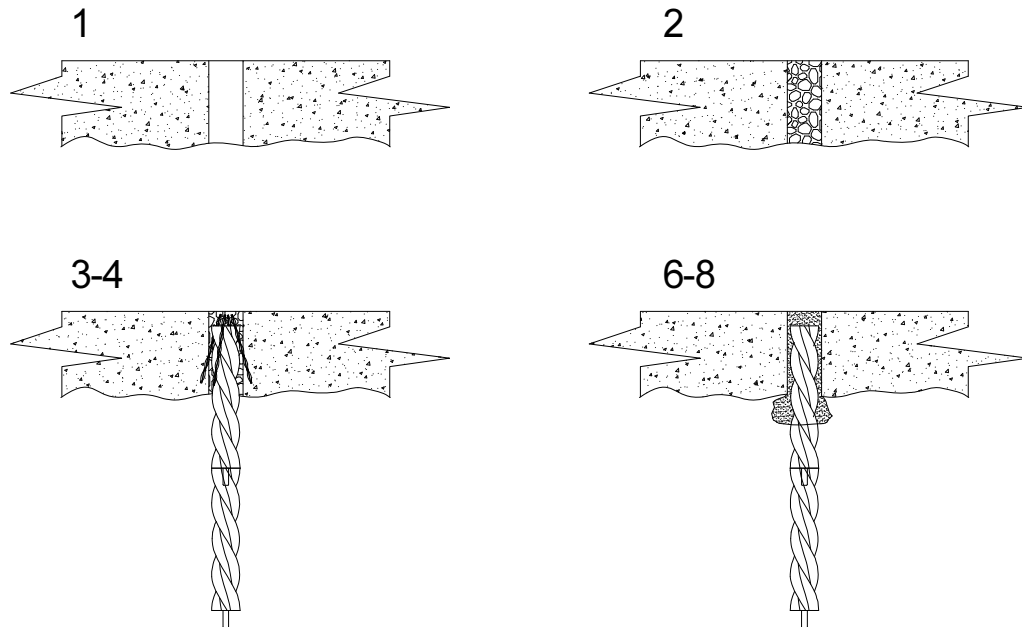




Piled Support of Failing Medium Existing Floor Slab or Raft



METHOD STATEMENT

1. Core a hole through the concrete slab/raft at the specified position.
2. Roughen the inside of the hole using a hammer chisel or masonry drill bit. This will provide a key for the grout to adhere to.
3. Drive the QuadraPile through the hole and carry out load testing to the specified requirement.
4. The pile top should be finished 40-80mm below the top of the slab/raft.
5. Drive four helical ties downwards and outwards into the inside of the hole between the fins as shown. Use standard detail HTG-01 for tie installation method but leave the tie protruding from the concrete. Make sure that the ties finish below the top of the slab/raft.
6. Fill the hole around the pile with cementitious grout.
7. Use an SDS drill to vibrate the pile to make sure that the grout completely fills all voids.
8. Continue adding grout until the level remains constant whilst vibrating.
9. Repeat these steps for additional pile positions.

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

- a. Size of pile and required proof test loads should be specified by the designer.
- b. Hole size should be 120mm diameter for 100mm QuadraPile and 80mm diameter for 64mm QuadraPile.
- c. Pile spacing will usually be in a grid across the slab/raft area but will be dependent on loads to be supported and so should be specified by the designer.
- d. This method is generally suitable for concrete slabs/raft of 200-300mm thickness. See QPR-08 and QPR-09 for different slab/raft thicknesses.

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

info@quadrabuild.com | 02086 445 434 | www.quadrabuild.com

