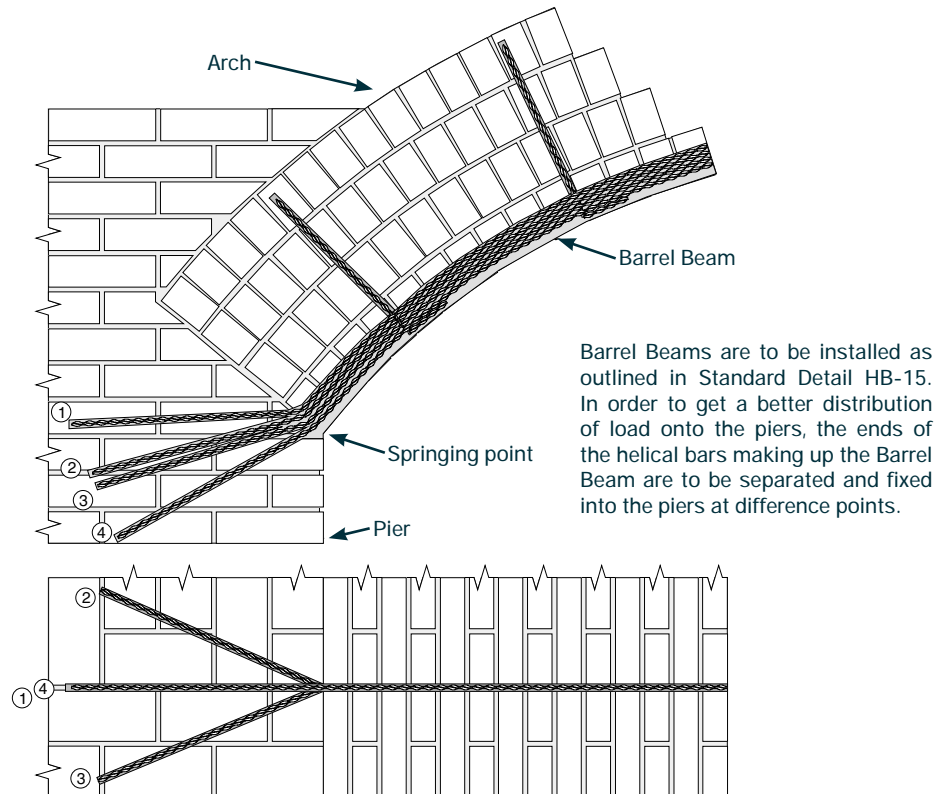




## Repairing Brick Arch Structures Barrel Beam End Fixing



### METHOD STATEMENT

1. Cut the slot for reinforcement down to springing line of arch. Drill 12 mm clearance holes (13 mm-14 mm diameter depending upon material) to required depth in line with the slot for helical bar 1 (top) and helical bar 4 (bottom). The holes should be angled upwards and downwards from the line of the reinforcing to give an angle of about 30° between them.
2. Drill 12 mm clearance holes (13 mm-14 mm diameter depending upon material) to required depth outwards from the slot for helical bars 2 and 3 (central bars). The holes should be angled left and right to give an angle of about 30° between the line of the hole and the line of the reinforcing (i.e. about 60° between the holes).
3. Vacuum out holes and thoroughly flush with water. Mix cementitious grout and load into gun. With required length of 12 mm extension nozzle attached to gun pump cementitious grout to outlet of nozzle. Insert nozzle to the full depth of drilled hole and pump grout to fill hole. Keep pressure on gun to ensure that all voids are filled with grout. Bend helical bar to correct shape and insert end of helical bar into full depth of grout filled hole. Install remainder of helical bar around arch as outlined in Standard Detail HB-15.
4. Continue to fix other helical bars as above until ends of all helical bars have been fixed.

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

- a. Depth of holes to be 450 mm.

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

[info@quadrabuild.com](mailto:info@quadrabuild.com) | 02086 445 434 | [www.quadrabuild.com](http://www.quadrabuild.com)

