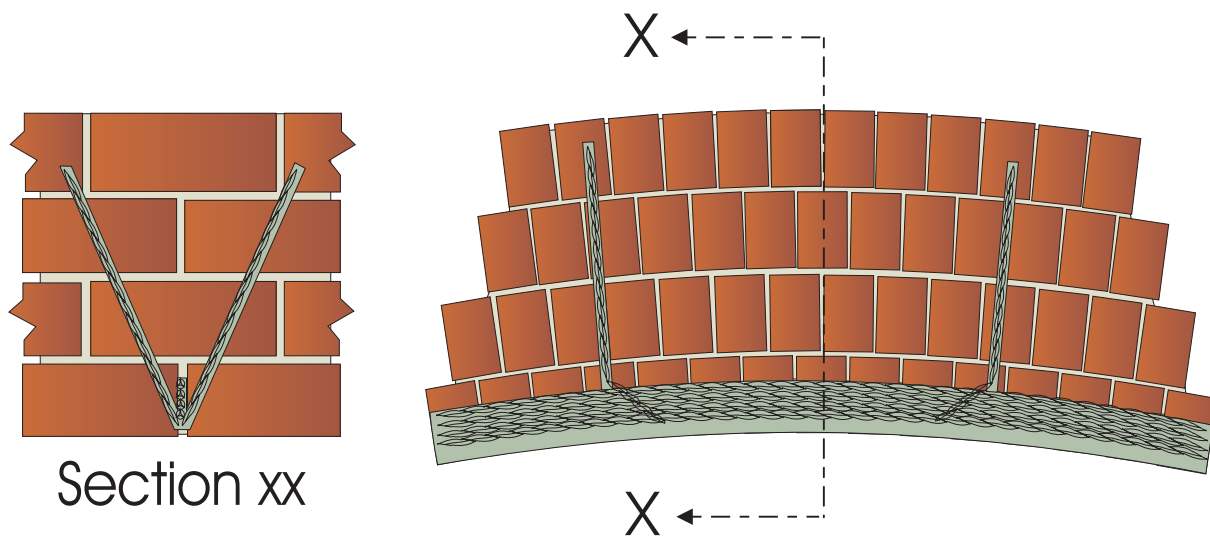


Repairing Brick Arch Structures, Brick Arch Reinforcement



- (1) Cut out slots into underside of arch to specified depth and at required spacings.
- (2) Drill clearance holes (12mm-16mm diameter depending upon length of tie to be used) to required depth and required spacing along slots. The holes to be angled at approximately 60 degrees to the right or left of the slots. Alternate holes to go in opposite directions.
- (3) Blow out holes and thoroughly flush with water.
- (4) With the aid of a grout gun and correct length of nozzle, pump Cemspand cementitious grout until nozzle is full. Insert nozzle to the full depth of drilled hole and pump grout to fill hole. Allow the back pressure to push nozzle out while filling or voids with grout.
- (5) Push correct length of Cem-Fix tie into the hole using insertion tool. The end of the tie to be left bent slightly and protruding in slot for Tri-bar reinforcing.
- (6) Clean grout away from all protruding ends of Cem-Fix ties and allow 24 hours for grout to achieve an initial set.
- (7) After 24 hours blow out slots and thoroughly flush with water.
- (8) With the aid of a grout gun insert a 10mm bead of Cemspand cementitious grout into the back of the slot. Push first Tri-bar rod into the grout until a good coverage is achieved.
- (9) Insert another 10mm bead of Cemspand cementitious grout over existing Tri-bar and push next Tri-bar rod into the grout until a good coverage is achieved.
- (10) Continue to install reinforcements as per (9) above until required number of Tri-bar rods have been installed.
- (11) Insert a final 10mm bead of Cemspand cementitious grout over the exposed rod and iron into slot using a finger trowel.
- (11) When Cemspand has set repoint joints.

Installation Notes: Unless specified otherwise the following criteria are to be used.

- a) The depth of slot to be 65 to 75mm.
- B) Number of Tri-Bars per slot to be 4
- c) Normal spacing of reinforcement slots to be 450mm,
- d) Normal spacing between Cem-Fix ties along slots to be 450mm.
- E) When joining runs of Tri-Bar a minimum of 500mm overlap must be allowed and all joints must be staggered