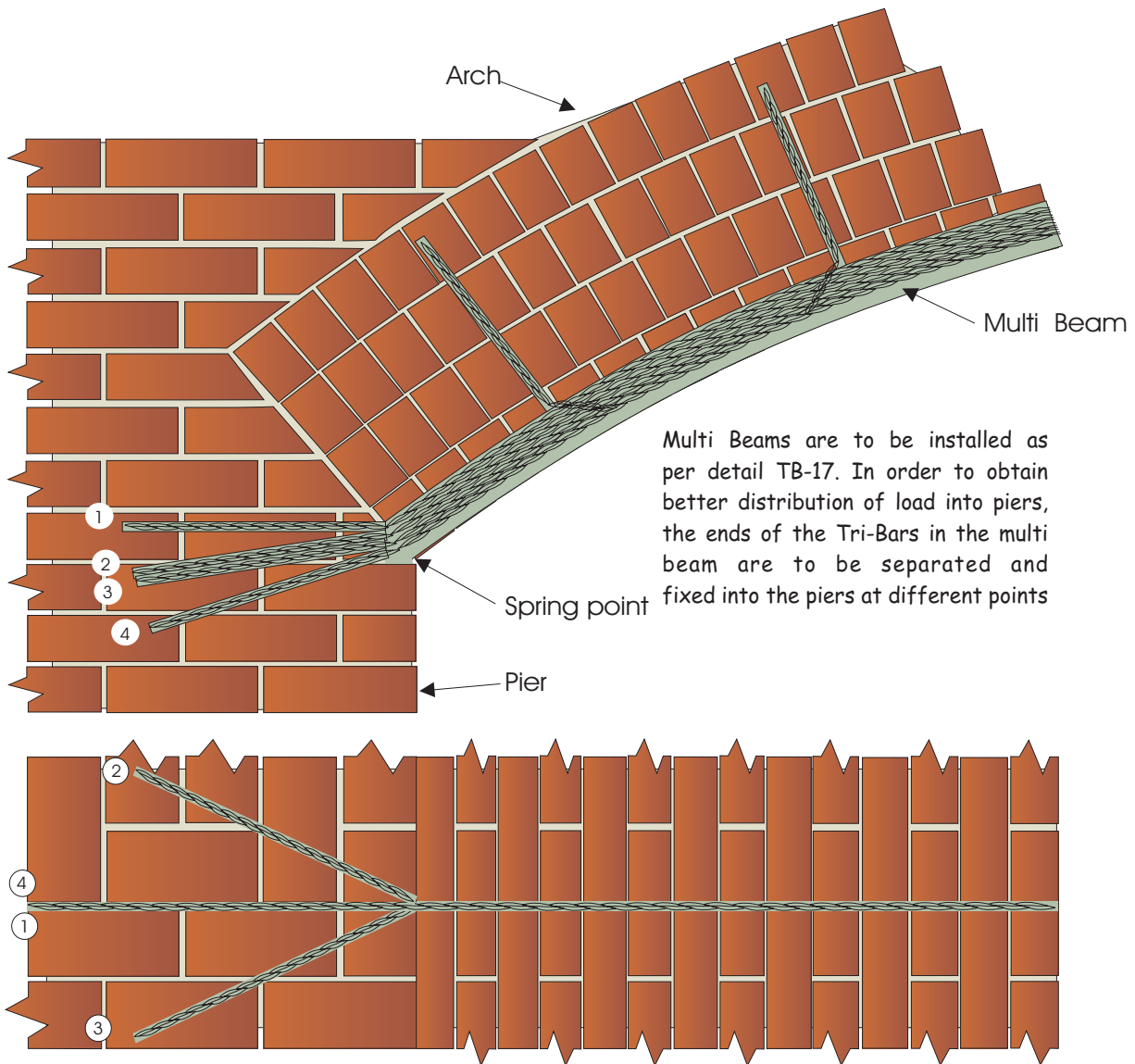


Repairing Brick Arch Structures, Beam End Fixing



(1) Cut out slots for multi Beams down to start point of arch. Drill clearance holes (12mm-16mm diameter depending upon length of tie to be used) to required depth in line with slot for Tri-Bar 1 (Top) and Tri-Bar 4 (bottom). The holes should be angled upwards and down wards from the line of the reinforcing to give an angle of about 30 degrees between them.

(2) Drill clearance holes (12mm-16mm diameter depending upon length of tie to be used) to required depth outwards from the slot for Tri-Bars 2 and 3 (central bars). The holes should be angled left and right to give an angle of about 30 degrees between the line of the hole and the line of the reinforcing to be 60 degrees between holes.

(3) Blow out holes and thoroughly flush with water. 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. Bend Tri-Bar to correct shape and insert end of tri-bar into full depth of grout filled hole. Install remainder of Tri-Bar around arch as per detail in TB-17.

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

a) The depth of holes in pier to be 450mm.