Galvanised wire installation steps

Foundation earthing (eight steps) and down conductor and roof mesh (six steps)

GALVANIZED STEEL ROUND WIRE · RWG 010 · Ø10 · 78 mm² · HOT-DIP 70 µm

KALOT GROUP · TECHNICAL ILLUSTRATION · NOT TO SCALE

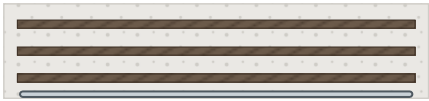
A) Foundation earthing, before concreting

1 Follow the drawing



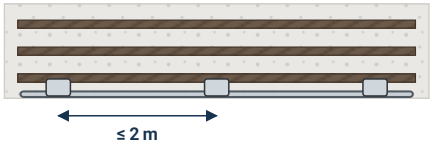
Take the ring route, middle branches and tap-off points from the earthing drawing.

2 Lay the ring



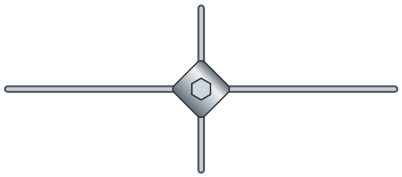
Straighten the wire and lay a closed ring on the lowest reinforcement layer, near the outer edge of the foundation.

3 Fix to the reinforcement



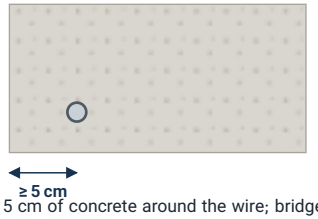
Fix the wire to the reinforcing bar with galvanised clamps at least every 2 m.

4 Clamp the crossings



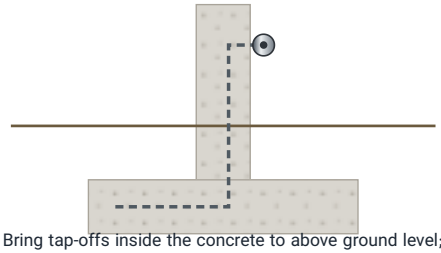
Clamp crossings with galvanised cross clamps; reinforcement tie wire alone is not a connection.

5 Concrete cover



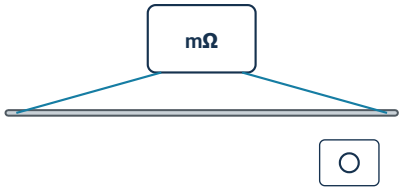
At least 5 cm of concrete around the wire; bridge expansion joints outside the concrete with a flexible connector.

6 Tap-offs



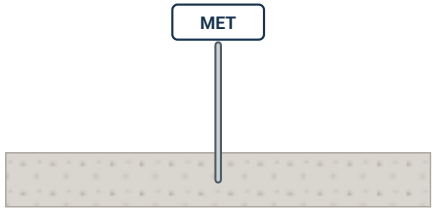
Bring tap-offs inside the concrete to above ground level; fixed point with a stainless steel bonding point.

7 Measure and record



Before concreting, measure continuity and record the route with photos.

8 Final connection



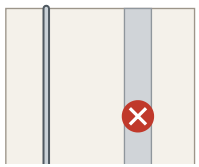
After concreting, connect the tap-offs to the main earthing terminal and the down conductors.

b) Down conductor and roof mesh

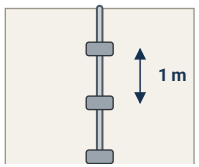
1 Roof route



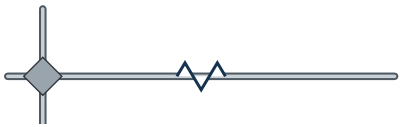
2 Run straight down



3 Fixing to the wall



4 Roof joints



Cross clamps at crossings; an expansion joint every 15 to 20 m.



Fix the wire every 1 m with galvanised one-hole clips.



Down conductor short and straight; not inside the downpipe.



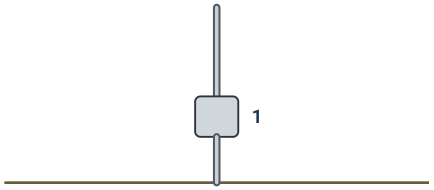
Mesh on roof edges, corners and ridge; down conductors from the corners.

Continuity check 6



Measure and record the continuity of the route.

Test point 5



Bolted joint above ground level, numbered.

Figures are illustrative and not to scale.
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