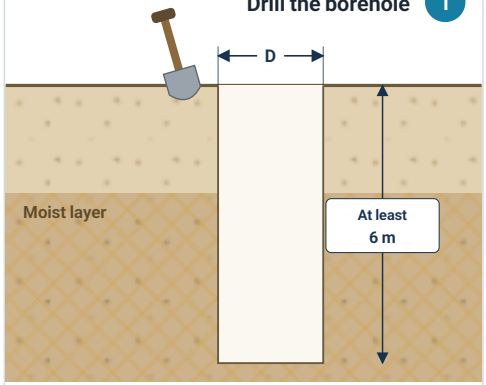
Installing an earth pit with an earth pipe

Eight steps in the KALOT Group method, from drilling the borehole to measuring the resistance

GALVANIZED & STAINLESS EARTH PIPE · HGV · HSL · HSM 3 / 6 · 3"

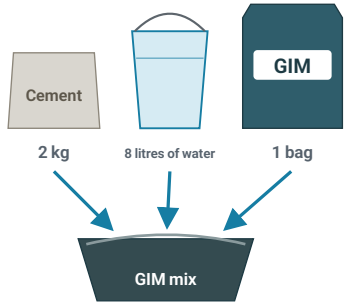
KALOT GROUP · TECHNICAL ILLUSTRATION · NOT TO SCALE

1 Drill the borehole



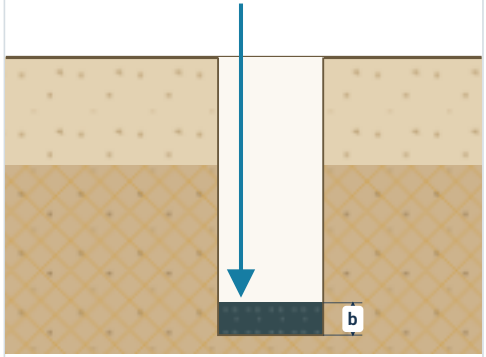
Choose the borehole location and mark the routes of underground services; drill the borehole to diameter D and at least 6 m deep, down to the moist layer; the borehole diameter is 40 to 60 cm.

2 Prepare the GIM mix



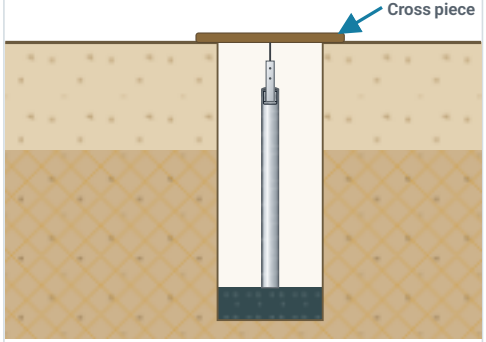
Mix each bag of GIM with 8 litres of clean water and 2 kg of cement; take the number of bags from the installation table or the GIM consumption calculator; a 50 cm borehole with GIM 3.5 m high takes 37 bags.

3 Pour the GIM bed



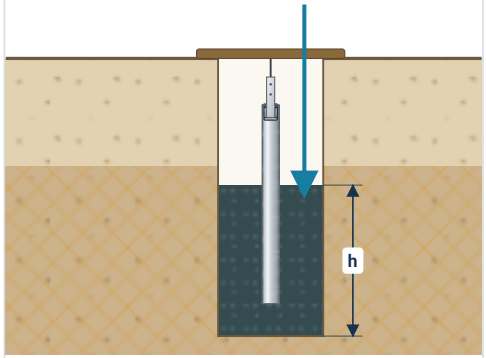
Pour a layer of GIM mix to height b, at least 10 cm, on the borehole floor; the bottom of the pipe rests on this bed.

4 Set the pipe



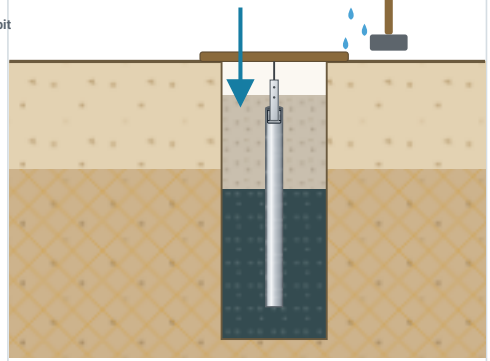
Stand the pipe upright in the centre of the borehole on the GIM bed, lug facing up, and keep it centred with a cross piece over the borehole opening.

5 Pour GIM around the pipe



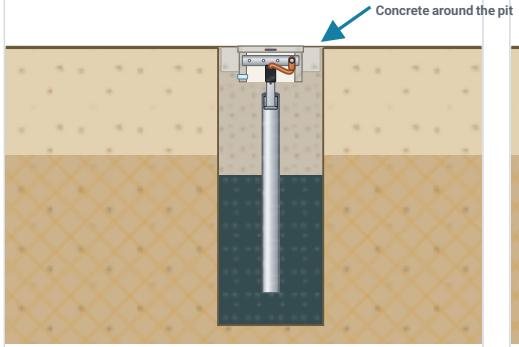
Pour the GIM mix around the pipe until the GIM height from the pit floor reaches h; 3 to 4 m for a 6 m pipe.

6 Backfill and compact the pit



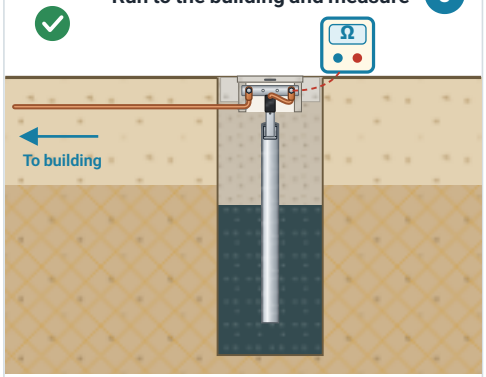
Backfill the rest of the pit with sieved soil and clay, layer by layer with water, compacting up to the base level of the earth pit; the top end of the pipe sits just below this level and the top of the tab stays above the soil.

7 Fit the pit and connect the conductor



Place the concrete or polyethylene earth pit over the top end of the pipe and pour concrete around it; the top of the tab sits in the open base of the pit. Connect a short bare copper conductor to the tab and to the pit's tinned copper bar with a two-hole copper cable lug and stainless steel bolt, nut and

8 Run to the building and measure



Run the conductor through the sleeve in the pit wall, bare in the soil, to the building, then continue above ground with green and yellow cable to the earth bar; measure the resistance and record it with the date.

Figures are illustrative and not to scale; tighten bolts to the manufacturer's instructions; example: 50 cm pit with GIM 3.5 m high, 37 bags.
D pit diameter (40 to 60 cm), b GIM bed (at least 10 cm) and h GIM height from the pit floor (3 to 4 m for a 6 m pipe).
We keep improving our products; please confirm final dimensions with our experts.

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