

INSTALLATION INSTRUCTION

GRIP-40

TRENCH INSTALLATION

The application of GRIP-40 (40 kg) to a typical earthing system installed in a trench, which consists of rods, tapes or cables, involves the following steps.

1. Dig a trench to the recommended dimensions as detailed in the attached drawings.
2. Saturate the entire area by dousing with water.
3. Place all rods, tapes or cables into position as required.
4. Take approximately equal amounts of Part 1 & Part 2 of GRIP and mix together (recommended to use 5 kg or 1/4 of the contents of each container) and mix the same together with 20 litres of water in a suitably sized drum or wheelbarrow. At any one time do not mix together more than the recommended quantity as listed above as the setting process in the compounds can commence quickly particularly in ambient temperatures of 28 Deg C and above.
5. Immediately pour mix directly into the trench. If required, repeat step 4 until the entire length of trenching is covered with GRIP-40.

6. Cover the applied GRIP-40 with approximately 100 mm of excavated soil. If the excavated soil is of a poor quality, eg. Clay, rock or shale it should not be used and garden loam or sand should be used as a replacement.
7. Repeat steps 4 & 5.
8. Backfill the remainder of the trench with the excavated soil. Be sure to follow the instructions as detailed in Step 6.

RECOMMENDED KG's OF GRIP REQUIRED FOR BACKFILLING TYPICAL TRENCH INSTALLATIONS.

Width of trench (mm)	3 x 10 m length radial trench in good soil conditions	3 x 10 m length radial trench in poor soil conditions
300 mm	10	40

For trench dimensions outside of the given specifications please contact LPI or an authorised distributor for further advice.

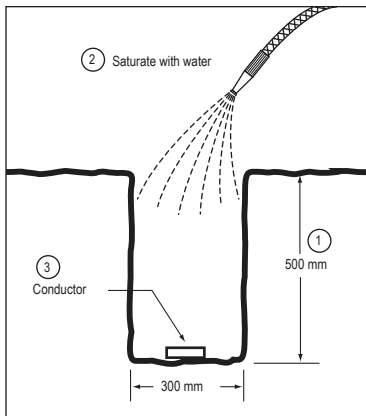


Figure 1

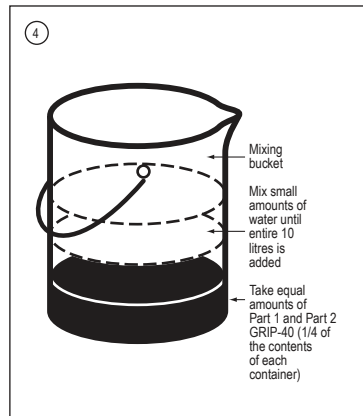


Figure 2

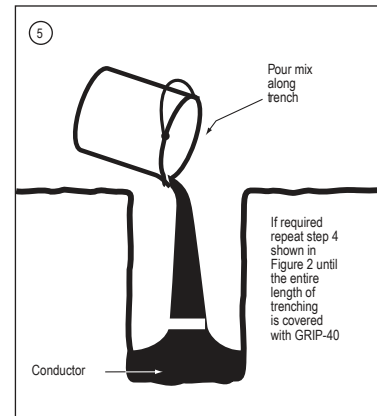


Figure 3

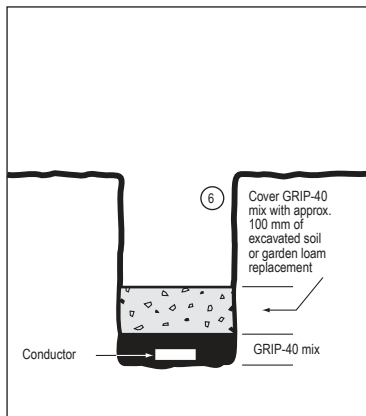


Figure 4

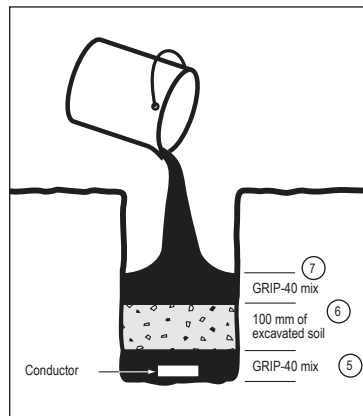


Figure 5

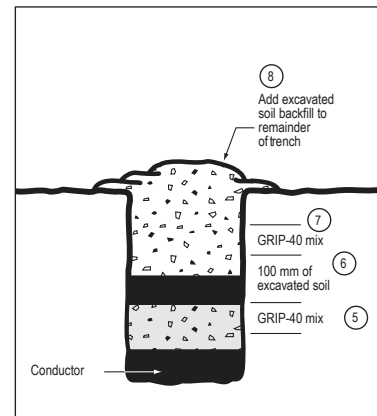


Figure 6

INSTALLATION INSTRUCTION

GRIP-40

EARTH ROD INSTALLATION

The application of GRIP-40 (40 Kg) for a driven earth rod involves the following steps.

1. Drill or auger a 75 mm (approx.) diameter hole to a depth of 150 mm less than the length of the rod to be installed.
2. Saturate the hole by dousing with water.
3. Place the earth rod into a central position in the hole and drive the rod 300 mm if possible into the soil at the bottom of the hole. The top section of the earth rod should now be approximately 150 mm below the lip of the hole.
4. Take approximately equal amounts of Part 1 & Part 2 of GRIP and mix together (Recommended to use 5Kg or 1/4 of contents of each container) and mix the same together with 20 litres of water in a suitably sized drum or wheelbarrow. At any one time do not mix together more than the recommended quantity as listed above as the setting process in the compounds can commence quickly particularly in ambient temperatures of 28 Deg C and above.

5. Immediately pour mix directly into augured hole.
6. Repeat steps 4 and 5 in accordance with recommended number of applications of GRIP-40 as per the attached table.
7. Backfill the remainder of the hole with the excavated soil.

RECOMMENDED KG's OF GRIP REQUIRED FOR BACKFILLING TYPICAL EARTH ROD INSTALLATIONS.

Dia. of Hole (mm)	Depth of Hole (mm) 1200 mm	Depth of Hole (mm) 3000 mm	Depth of Hole (mm) 6000 mm
125 mm	10	10	20
200 mm	10	20	40
300 mm	20	40	80

For augured hole dimensions outside of the given specifications please contact LPI or an authorised distributor for further advice.

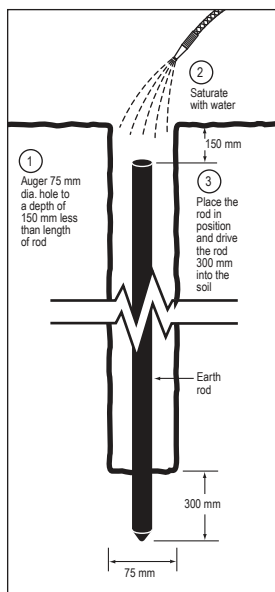


Figure 1

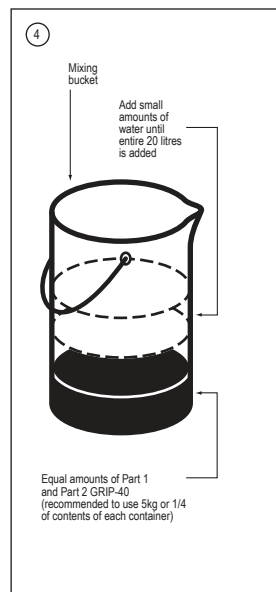


Figure 2

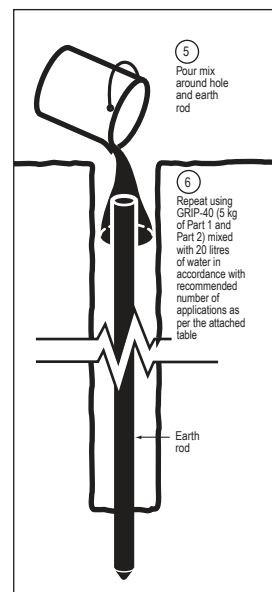


Figure 3

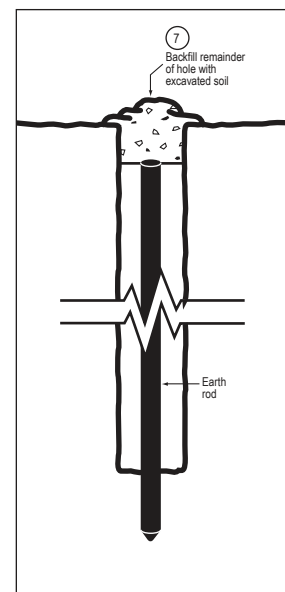


Figure 4