

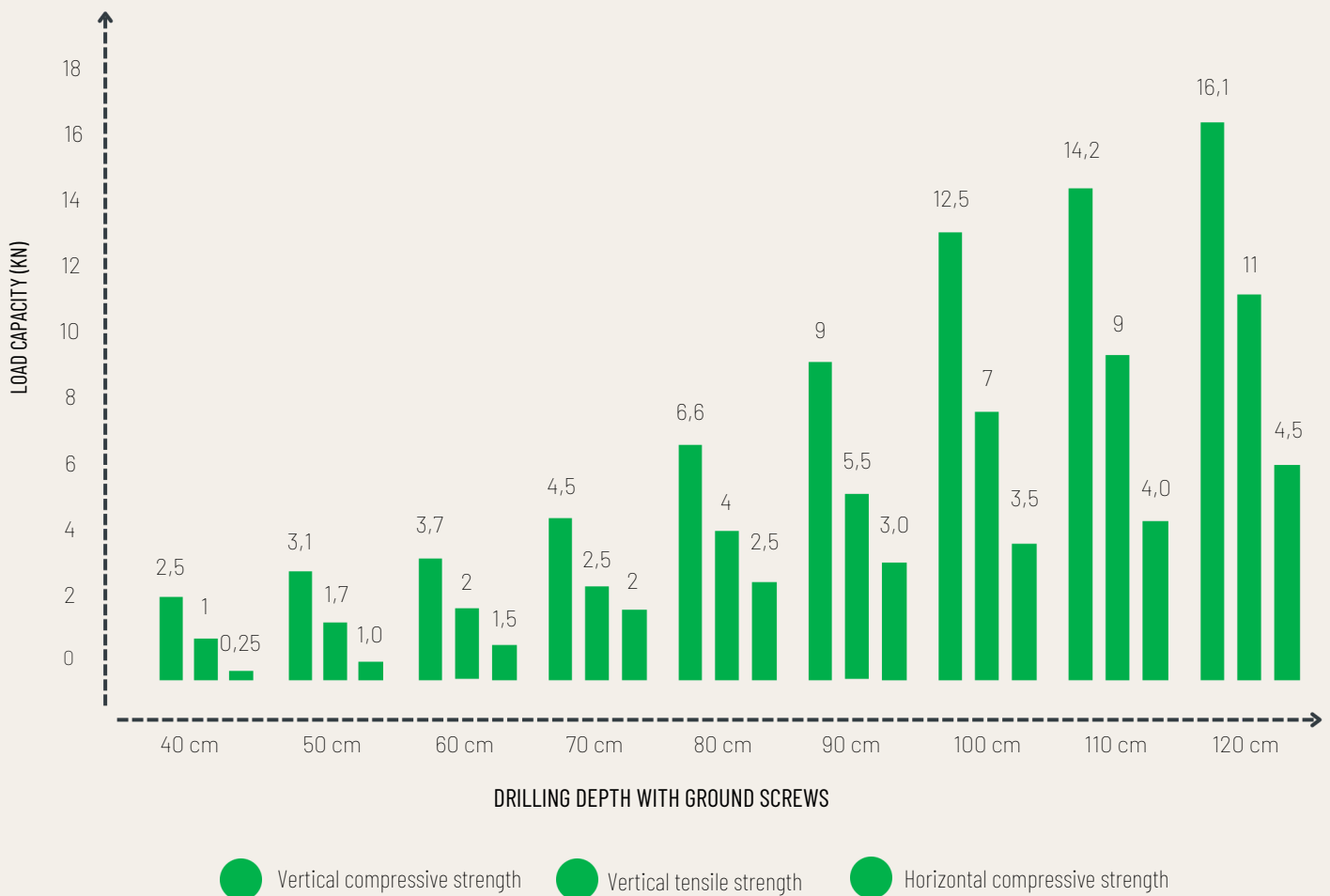
LOAD DIAGRAM FOR BAYO.S HOBBY GROUND SCREWS

You can do a little practical test yourself if you are in doubt about the type of soil you have. Take a lump of soil between your fingers and squeeze the soil in your hand. Clay soil can be shaped very easily and sandy soil will have a greater tendency to flow out between your fingers.

The diagram shows an overview of the load-bearing capacity of the screws. The load-bearing capacity is given in kilonewtons (kN), where 1 kN corresponds to 100 kg. The diagram shows that a screw of 40 cm can carry 2.5 kN, corresponding to 250 kg in vertical pressure.

When choosing screw length, the following should be taken into account:

- What is the total weight of the building materials?
- What will the screws load in addition to the building materials?
- Future plans (e.g. do you want to place a hot tub on your terrace or similar?)



- The listed values were determined for the soil type clay with a CU of 200 kPa
- All values are reduced by a safety factor of 1.3 and a collation factor of 1.5 according to the Eurocode
- Transverse load is set at a constant max. 5 kN for soldered piles. If greater horizontal load-bearing capacity is desired, the piles are angled so that compression/tension combinations are utilized.
- The values in the graph are only indicative.
- The screws must be selected based on static calculations and results of soil tests on site.