

# Tests

## Drilling

Place: GreenFabLab, KampLintfort, Germany.

Date: 16/April/2021

This test was made to check the behavior of a drill to get familiar with the process and consider it for machine structure requirements. Soil type: Clayey

### Materials:

1. Drill:

- Brand and model: Bosch GSR 18V-21
- Torque: 21/55Nm

2. Drill bit:

- Diameter: 32mm
- Length: 500mm



### Process:

The first time, I got to drill 30cm depth.



The second time, I got to drill 50cm, which is the total length of the bit.



### Outlook:

During this test, it was remarkable that [with this amount of torque and these soil conditions] it is not possible to take a soil sample by drilling more than 30 centimeters deep in one go, separate the total depth on multiple phases would be a good an alternative to increasing torque in this case.

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