

# PLANT ROOT SAMPLING

You will return to the contents of P1 SOIL by clicking the pictogram

# P1.32

By alternatingly pushing one of both U-shaped gutters, the profile sampler cuts itself into the soil.



Once the required depth has been reached, the profile sampler is extracted from the soil in a clamped position.



#### 05.08 Profile sampler

The profile sampler allows taking of a sizeable and virtually undisturbed sample up to a depth of approximately 40 cm (10 cm wide and 5 cm across). All roots, up to a cross-section of 2 cm, are included in the sample.

When sampling, both U-shaped gutters are pushed alternatingly into the soil, until the required depth is reached, after which one side of the handle is pulled sharply upwards and the other pushed downwards, thus clamping the profile.

The profile sampler may now be extracted and opened to sample or describe the profile.

Also replacing the sample taken (in order to reduce the disturbance of the location to be researched to a minimum) is easily executed.

### Advantages

- Compaction and integration of the various soil layers does not occur.
- $\ensuremath{\square}$  Simple determination of the volume/weight of



Profile sampler

various differing layers.

- Sampling individual layers is no problem because the layers do not become disturbed.
- The observation of quantity and distribution of the root growth is both accurate and quick.
- A sizeable volume of the soil may be sampled, whereby the horizons of the samples are easily observed.
- Because sampling is efficiently executed it is possible to observe the fauna.

## Applications

- Root growth research.
- Ecological/biological research of a strip layer in the forest.
- □ Soil surveying.
- Creating monoliths without the necessity of digging a profile pit.
- □ Suitable for almost all soils.



Profile sample