

# FOUNDATION GUIDE

## TECHNICAL CABINS- SHELTERS

### FOUNDATION

The nature of the subsoil at the installation site is crucial for the choice of foundation of technical cabins and Shelters.

When applying the foundation the substrate must always consist of stable soil layers. The suitability of the methods has to be assessed based on the foundation soil, groundwater level and the effect of frost on the stability of the foundation.

**Foundation in soil without casting and the groundwater level is below the freezing limit.**

#### 1. Sand cushion

- In order to achieve a stable soil layer, the upper soil layer is being removed.
- A sand cushion has to be piled up and compressed until it is stable.
- The sand cushion has to be adapted to the area of the concrete plate + 30 cm and with an angle of 45 degrees in relation to the concrete plate (see sketch 1.1).

**Foundation in soil without casting and the groundwater level is above the freezing limit.**

#### 2. Sand cushion

- In order to achieve a stable soil layer, the upper soil layer is being removed.
- A sand cushion has to be piled up and compressed until it is stable.
- Prepare perimeter drains to protect sand cushion against frost.
- The sand cushion has to be adapted to the area of the concrete plate + 30 cm and with an angle of 45 degrees in relation to the concrete plate (see sketch 1.1).

**Foundation in soil with the use of concrete without being dependent on the groundwater level with casting.**

#### 3. Piling

- Establishment of the technical cabin/ Shelter on at least 4 concrete pipes ( $\varnothing$  300 mm), all of which must be grounded in frost-free depth and on a stable base according to local regulations.
- The pipes are filled with concrete according to the correct environment - and exposure class.
- The number of tubes depends on the component placement in the cabin ( by weight).

#### 4. Foundation edge/concrete beams

- The technical cabin/ Shelter is set up on concrete beams
- The beams are being cast at the installation site and must be founded into the frost-free depth and on a stable base according to local regulations.
- The number of beams technical cabin/ Shelter is set up on concrete beams can be obtained by Priess A/S upon order and depends on the component placement in the cabin ( by weight).

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Sketch 1.1

