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## WORKING INSTRUCTIONS FOR DELTA SOIL FOUNDATION

### Table of Contents

1 Generally .....	1
2 Geotechnical conditions .....	1
3 Work order .....	2
3.1 - Excavation .....	2
3.2 - Mounting of foundation.....	2
3.3 - Refilling.....	2
3.4 - Grouting .....	2
4 References .....	2

### 1 Generally

This job description applies to the foundation of prefabricated foundations in soil. Foundations are dimensioned according to Eurocodes, as well as the application of Eurocodes, ECS.

### 2 Geotechnical conditions

Soil is determined by soil samples or in at excavation.

The foundations are intended for grounding in soil that can be classified as sand or better, with an estimated characteristic friction angle,  $\phi_k = 33^\circ$  or higher.

The maximum level of the groundwater surface is checked and documented. The groundwater surface must be below the foundation at all time.

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### 3 Work order

- 1-Excavation
- 2-Mounting the foundation
- 3-Refillable
- 4-Grounting

#### 3.1 -Excavation

Excavation shall be carried out to the level indicated on the drawing. Maximum rise of the foundation is 150mm above ground level. Where frost-free depth is lower, excavation is carried out to the required depth. The work must be carried out so that unnecessary unlocking of the bottom is avoided. Foundation shall be placed in untouched land or where the soil condition so requires in a min. 150mm thick layer of friction material.

#### 3.2 -Mounting of foundation

The foundation is lifted into the pit, erected in place, fixed in its position before refilling. When lifting, a universal head Deha 6102-3 / 5 is attached to the two anchors that are cast into the top edge of the foundation. NOTE Universal heads are not provided by Scanmast.

#### 3.3 -Refilling

A certain overcrowding according to drawings should be made to ensure that the ground falls out of the tower. Backfilling is carried out in layers with non-freezing friction material. In winter conditions, crushed rock is used. The layer thickness is adapted to the packing tool which shall consist of vibrostamp or vibroplate. Backfill within 1 m of foundation must not contain blocks larger than 300 mm. When working, care must be taken that the foundation is not subjected to horizontal forces. When cable is placed through the foundation, the center hole is filled with non-freezing material.

#### 3.4 -Grounting

Grounting of the footplates is carried out with the intended shrinkage-compensated special use, for example Finja Bemix Standard. Grounting should be slightly smaller in diameter than the foot plate to prevent water from accumulating between concrete and the foot plate.

### 4 References

- Eurocodes
- SS-EN 1990:2002
- SS-EN 1991-1-1:2005
- SS-EN 1992-1-1:2005