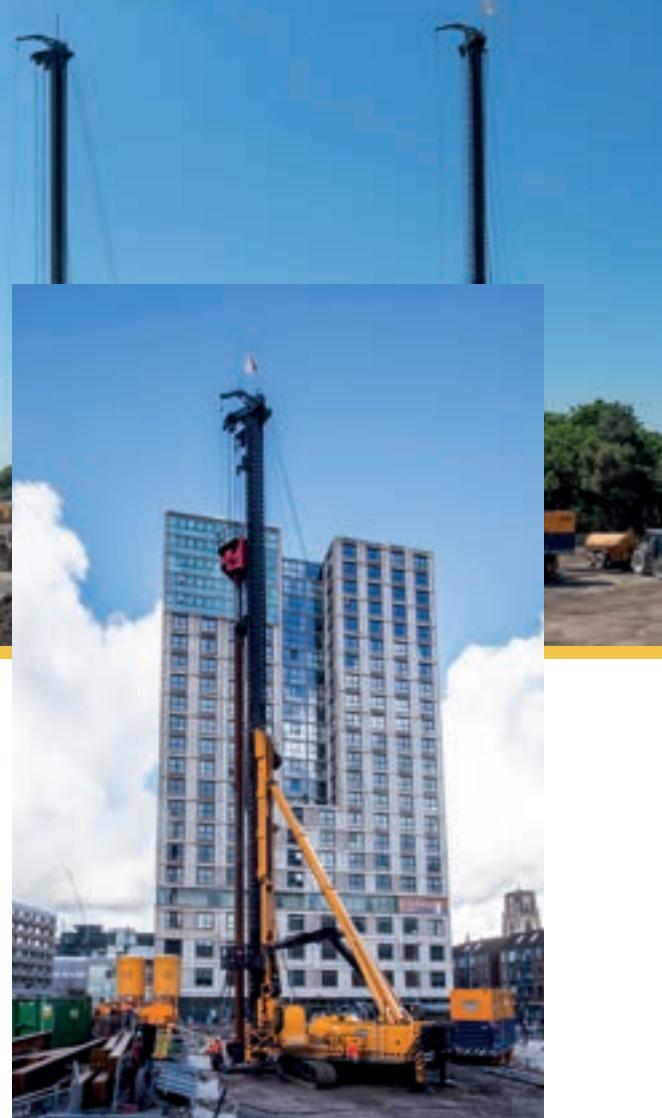


Fundex, specialist in the field of (deep)fundations



Fundex® combi-pile met grout injection

Vibration-free, in-situ, soil-displacing concrete screw pile with concrete precast element, screwed to depth using a steel (auxiliary) tube and with the addition of grout injection.

Method:

- A steel (auxiliary) pipe, equipped with a loose drill tip, is placed at ground level;
- The pipe is screwed to depth by applying axial pressure and torque and adding grout injection;
- When the desired pile point level is reached, the prefab element is placed in the tube;
- The tube is filled with structural grout;
- The tube is pulled in an oscillating manner, leaving the drill tip behind;
- The pile has now been constructed;
- The rig can be moved to the next post location.



Interested?

On our website you will find an overview of the expertise that Fundex has built up over the past 70 years.

Advantages:

- Vibration-free and 100% ground-displacing (no relaxation of the ground or reduction in cone resistance)
- No risk of damage to adjacent plots during the manufacture of the pile;
- A large load capacity is permitted;
- Extremely suitable as a compression and tension pile;
- To be installed in heavy soil layers;
- No noise pollution, such as pile driving or vibration. The only noise is the motor of the drill;
- No soil drainage. Soil is pushed away sideways;
- Pile Shaft Guarantee;
- Install at a depth (possibly from a floating work platform), so that no excess length is created on the concrete column above cut-off level.

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'Good in foundations!'

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Technical specifications

Fundex® combi-pile with grout injection

Pile dimensions

Standard dimensions are:

Shaft diameter: [mm]	Square prefabpile [mm]	Octicon®** [mm]	Corresponding drill point [mm]:
Ø 380	max.220	315	Ø 450
Ø 460	max.250	315/365/430	Ø 560
Ø 550	max.320	315/365/430/480	Ø 660
Ø 610	max.350	315/365/430/480	Ø 740
Ø 660	max.380	315/365/430/480	Ø 850
Ø 750	max.500	315/365/430/480	Ø 950

** Octicon is a trademark of Lodewikus

A grout shaft will be created in the sand layers with the same diameter as the drill point diameter.

Pile length:

Depending on pile size and pile tip, the length of the pile can be varied. The slenderness of the element partly determines the size of the element. The prefab elements can also be hung at a depth.

Reinforcement:

The piles are fitted with prefabricated concrete piles. For quality reasons, they are provided with reinforcement over the entire length.

Concrete:

All strength classes can be used for this. The prefab concrete piles have a minimum of C45/55

Soil mechanical bearing capacity:

NL: The load capacity is calculated in accordance with the current NEN and CUR standards.

The following factors can be applied:

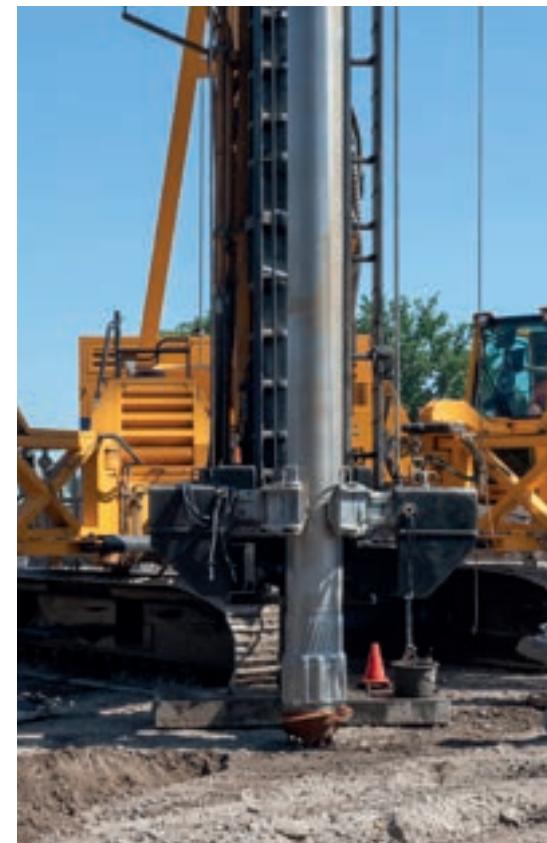
$$\alpha_p = 0.63 \quad \alpha_s = 0.009$$

$$\beta = 1.0 \quad \alpha_t = 0.009$$

$$s = 1.0$$

Applicable basis:

Fundex combination piles with grout injection can be used in heavy soil layers but also in very weak soil layers. Thanks to the use of a prefab pile core, there is a guaranteed pile shaft.



ASML

Inclined positions:

In connection with centering the core, additional measures will have to be taken for piles with large struts.

Workspace:

To install the Fundex pile, there must be free height and sufficient space.

Adjacents:

The piles can be installed at a distance of approximately 0.9 m perpendicular to the adjacent. This is of course more for internal corners.

Piling rigs:

Fundex F12SE, F15, F16, F3500 and F4800.

Rigs dimensions:

Depending on the type of rig. Most common; installation location approximately 7 x 12 m. Maximum rig height 48 m. Built-up weight variable from approximately 63 to 210 tons.

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