

# Shell structures for Uptown Nørrebro student flats

Ambitious student housing project will be a unique landmark for the Nørrebro district



**AARSLEFF**

In Copenhagen, the demand for student housing is increasing. To a certain extent, this will be remedied by the student housing project Uptown Nørrebro, consisting of six blocks of between six and seven stories as well as a 100-metre-high student tower of 29 stories. The buildings will provide 500 student flats of a size of between 42 and 115 square metres. Per Aarsleff A/S has a trade contract which covers foundation, construction, building and concrete work.

## **A solid foundation**

Uptown Nørrebro will cover an area of 40,000 square metres inclusive of the student residences and an underground parking facility. Aarsleff participates in the project from the beginning with excavation and handling of more than 15,000 cubic metres of contaminated soil, installation of piles below the buildings and establishment of more than 100 tons of sheet piles for the underground parking facility. At the same time, we are to carry out the foundations for 60 DN880 secant piles as a protective fence

towards the nearby S-train station. This makes high demands on logistics and safety. Also, we will cast the in situ concrete for the building foundations, the floor slab and for the core of the 100-metre-high student tower. In addition to the work on ground level, an existing culverted stream is to be relaid.

## **Building upwards**

Besides the ground work, Aarsleff is also building upwards. In addition to casting of the concrete core of the 100-metre tower, we are responsible for the installation of more than 9,000 different elements, e.g. columns, beams, walls, facades, voided slabs, TT slabs, filigree walls and composite beams. To lift the elements that are to be used on the top floor of the tower building, we are to install a 100-metre freestanding tower crane.

According to plan, 600-700 students and guest researchers will move into Uptown Nørrebro during 2018.



#### Data

- 7,600 m of concrete piles
- 110 tons of sheet piles
- 700 m of DN880 secant piles
- 340 m of strand anchors
- 610 m of bar anchors
- 15,300 m<sup>3</sup> of contaminated soil
- 2,900 m of sewer
- 5,500 m<sup>3</sup> of concrete
- 680 tons of reinforcement
- 9,000 elements.

#### Client:

KPC København A/S

#### Contractor

Per Aarsleff A/S

#### Type of contract

Trade contract

#### Consulting engineer / Architect

Midtconsult

Arkitema Architects

#### Construction period

March 2016 – February 2018

#### Contract value

DKK 102.4 million

#### Contact

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