

The highest tower of the Carlsberg City

Design & build contract for construction of 120-metre-high residential building

The Carlsberg City is being transformed to a brand new city district centrally located in Copenhagen. The district will comprise a number of residential towers, e.g. Pasteur's Tower which at 120 metres will become Copenhagen's tallest residential building. Working in a design & build contract and One Company collaboration with the sister company Wicotec Kirkebjerg A/S, Per Aarsleff A/S is responsible for the construction of Pasteur's Tower and the associated buildings – a total of 76,400 square metres of new construction.

Early contractor involvement

For the construction of the residential towers, the Carlsberg City is using a collaboration model that involves architects, consulting engineers, contractors and the client already in the design of the construction work allowing them to participate on equal terms as consulting engineers in the planning phase. The collaboration model goes hand in hand with Aarsleff's focus on early involvement with a view to improving the efficiency of the construction phase and creating a well-prepared and thought-out building process. The design work lasted a little more than a year and formed a good basis for the construction work.

Establishment of construction pit

The construction work commenced in June 2018 when our ground engineering specialists installed 720 metres of diaphragm walls for the construction pit, designed by Aarsleff's Design & Engineering department. The installation of diaphragm walls is a very gentle method and was chosen to protect the nearby listed historical buildings, especially since some of these are located just 3 to 4 metres away from the retaining walls. The construction pit work also involves massive earthwork including excavation and removal of around 85,000 m³ of soil plus handling of contaminated soil and drill-



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ling of ground anchors in two levels.

Residential and commercial buildings and parking facilities

When the construction pit is ready in June 2019, casting of foundations, base slabs and basement walls will begin. Then, the construction activities will commence with the three-storey underground parking facility, construction of the 120-metre-high residential tower as well as the associated buildings, including residential blocks and commercial buildings. Aarsleff carries out all concrete work and element installation work and is also responsible for the facade work and fitting out work, while Wicotec Kirkebjerg performs all the technical installation work.

Data

- 720 metres of diaphragm walls
- 85,000 m³ of soil
- 14,500 m³ of concrete
- 4,600 wall elements
- 1.2 milion bricks
- 1,700 windows
- 35,000 m² of flooring
- 21 lifts.

Client

Carlsberg Byen P/S

Contractor

Per Aarsleff A/S

Cooperative partners

Wicotec Kirkebjerg A/S

Type of contract

Design & build contract

Consulting engineers

Vilhelm Lauritzen Arkitekter

Wingårdhs

(sub-supplier (architect) on the tower)

ÅF Buildings Denmark

BG&E

(subconsultant on the tower)

Construction period

June 2018-June 2022

Contact

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ANLÆG-249-rev.1 01/2019