

# The Old Town in Aarhus

## Construction of 40 lm of drilled king post wall



**AARSLEFF**

For the construction of a new building in The Old Town in Aarhus, Aarsleff has established a retaining wall to allow excavation along the neighbouring building as well as into an existing slope.

Right from the beginning, we focused on establishing the retaining wall very carefully due to the geotechnical conditions in the area as well as existing settlement damage of the neighbouring building. In collaboration with the client and the consulting engineer, we decided to carry out the wall as a drilled king post wall.

### Construction of the king post wall

When we established the work formation level, we discovered a number of cables in the ground, and we helped the client relay the cables before we started

constructing the retaining wall. Subsequently, the installation of the king post wall could begin.

During the installation, it turned out that there was a need for further anchoring of the wall. Even though this appeared rather late in the process, we managed to install the anchors with minimum impact on the time schedule.

As we had already identified settlement damage of the neighbouring buildings, we monitored the surrounding buildings during our work. In general, the monitoring showed that the deformations were below the specified values, and subsequently, we could start on the work with foundations and floor slab as planned.



#### Data

- 40 lm drilled king post wall: HE300B profiles of a length up to 10 metres
- 3 permanent soil anchors on waling
- Excavation and disposal of 1,200 m<sup>3</sup> of soil

#### Client

Den Gamle By

#### Contractor

Per Aarsleff A/S

#### Type of contract

Main contract

#### Consulting engineer

GEO

Viggo Madsen A/S

#### Construction period

March-April 2019

#### Contract value

DKK 2 million

Aarsleff Ground Engineering is one of Europe's leading piling contractors, and we undertake a wide variety of piling, drilling and foundation projects in Denmark and abroad. We have offices in Poland, Sweden, Germany and the UK.

Our fleet covers hydraulic piling and drilling rig as well as cranes and vibrators.

#### Contact

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