

# Secant pile walls

## Noiseless drilling in most soil conditions

Aarsleff carries out secant pile walls by means of Vor der Wand drilling (abbreviated VDW). The name of the method indicates that it is possible to drill a pile close to a wall. Furthermore, the method is well suited for drilling in areas with limited space. This type of drilling offers optimum utilization of the square metres available on the construction site.

The method offers very noiseless drilling of secant pile walls and no vibrations, which is an important factor in projects in built-up areas. Furthermore, the method is well suited for installation in soil conditions where it is not possible to press sheet piles.

VDW drilling differs from most types of drilling, as both auger and casing rotate down into the ground simultaneously, and in this way, productivity increases. When casing is used in connection with auger drilling, the result is a directionally stable drilling.

### Drilling dimensions

The following drilling dimensions are standard:

- DN530 mm with c/c distance of 465 mm and overlap of 65 mm – corresponding to 12.2% overlap
- DN621 mm with c/c distance of 546 mm and overlap of 75 mm – corresponding to 12.1% overlap

It is also possible to drill in smaller or bigger dimensions, and overlap can be varied according to requirements for e.g. water tightness.

### Soil conditions

VDW drilling can be carried out in most types of soil conditions, including sand, gravel and moraine clay. The biggest problem could be big stones in e.g. morainic deposits which in worst case can damage the drilling equipment as well as auger and casing.



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Aarsleff's Piling division 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 extensive fleet ranges from mini piling rigs to large specialised machines and covers fully hydraulic piling and drilling rigs as well as cranes and vibrators.

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