

The Multi Service Group.



Construction of a complete watertight building pit for an office building, including the demolition of the existing structures.

The plan area of the up to 9.00 m deep excavation constituted approx. 6,500 m<sup>2</sup>.

For the excavation pits outer walls, 8,500 m<sup>2</sup> single-phase cut-off wall with inserted sheet piles were installed. The outer walls were secured by approx. 115 pressure grouted anchors.

The building pit was divided into three sections, being separated by transverse single-phase cut-off walls with inserted sheet piles as well. This meant it was only necessary to construct a high pressure injection layer with a thickness of 1.00 m under two of the three sections, marking up a total of 5,700 m<sup>2</sup>. In the southern area a watertight marl layer was present and no additional measures to secure the excavation were required.

**Quantities:**

8,500 m<sup>2</sup> single-phase cut-off wall, d = 60 cm with embedded sheet pile retaining wall

115 Nos. pressure grouted anchors

5,700 m<sup>2</sup> jet grouted base slab

62,000 m<sup>3</sup> excavation

6,500 m<sup>2</sup> concrete slab

**Contract Value (net):**

3.8 Mio EURO

**Construction period:**

04/2002 - 08/2002

**Client:**

HIPPON Verwaltungsgesellschaft mbH & Co., Munich

**Services:**

Excavation pit

Jet grouting

Anchors

Dewatering

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