

Project name: Mühlenberger Loch  
Location: Hamburg, Germany  
Client: Möbius Baugesellschaft & Menard Soiltraitment  
Date: 2002  
Quantity: approx. 6 mio. linear meters



In the scope of extending the plant of DA (DaimlerChrysler Aerospace Airbus) in Hamburg Finkenwerder for the final assembly of the large-capacity aircraft A 380, the ground in the “Mühlenberger Loch” had to be elevated. The design of the “iwb IMS Ingenieurgesellschaft Hamburg” planned the elevation of the area with sand after it had been surrounded by diked marshes. The existing subsoil consists of silt with a very low bearing capacity. The layer of silt has an average thickness of 2 - 12 meters.



After the finish of the diked marshes, a 0.30 m thick layer of sand was brought on by damping off to the present subsoil. The top layer, which had to be installed by amphibious vehicles, was placed thereupon by rain-bowing thus creating a dry sub-grade enabling the machines to start the installation of the vertical drains. The desired height of the area has been reached by conventional rising. The installation of the vertical ground drainage system was effected parallel to the final stage of damping off and to the initial stage of rinsing.



Up to 330,000 linear meters of prefabricated vertical drains were installed per week, using up to 24 installation machines. The maximum installation depth was 18 meters. To comply with the conditions and project specific requirements, the planning grid of the vertical drains varied between 0.60 and 1.50 meters. The product's ease of handling and installation ensured an efficient and smooth construction process.

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