TRM PFAHLSYSTEME FACTSHEET

Industrial construction

Deep foundation for Hangar 4 in Zell am See, Austria

+ 150 ductile iron piles of the pile type TRM 118 were installed
+ Maximum load rating of maximal 500 kN per pile
+ Soil type: challenging soil conditions with partly non-load-bearing peat layers
+ Construction time: ca. 1 year
+ Implementation by autumn 2024

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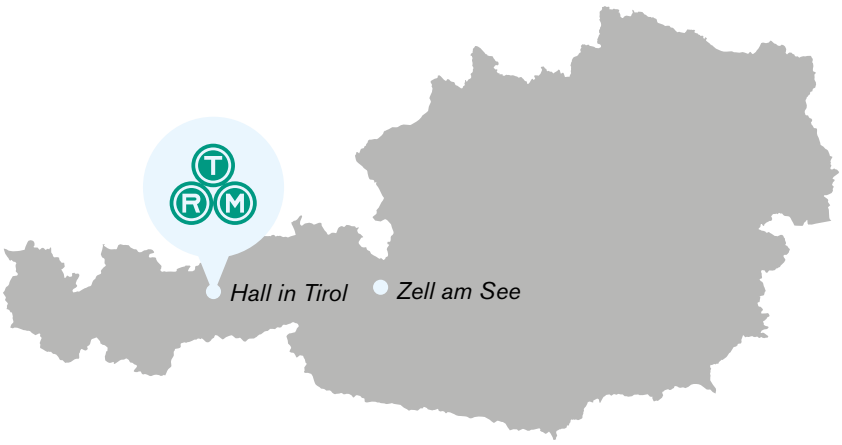
The Initial Situation

The **new construction of Hangar 4** at Zell am See airfield requires a stable and economical foundation in a **geologically challenging area**. The Zell valley is characterized by a complex soil structure, consisting of topsoil, peat layers and sands, which are **not strong enough** for a conventional shallow foundation.

The unstable peat layers posed a particular challenge, as they could lead to subsidence and bearing capacity problems. Due to these geotechnical conditions, the **decision was made to use TRM Piling Systems**, as they offered a fast, efficient and cost-effective solution for the necessary deep foundations.

Hanger 4, Zell am See airfield

Hangar 4 at Zell am See airfield is built on **heterogeneous ground** with peaty deposits and unstable sands, which is why a **deep foundation with the TRM Piling Systems** was necessary.



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Deep foundation

The grouted ductile iron piles type **TRM 118** are perfect for penetrating **non-load-bearing layers** and safely transferring loads to deeper, load-bearing soil layers. The high load-bearing capacity and flexible use of these piles were decisive factors in their selection for this project. A total of approx. 150 TRM ductile piles were used to reach the load-bearing soil layers. Some of the piles were specially designed to absorb alternating loads in order to absorb uplifting forces caused by wind loads. The use of TRM Piling Systems significantly **reduced the construction time and optimized cost efficiency**. The rapid installation of the TRM ductile driven piles enabled the project to be implemented quickly and reduced the influence of the ground conditions on the construction process.

Foundation with TRM Piling Systems

Do you have any questions? Our experts will be happy to advise you.

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