

TRM PILING SYSTEMS FACTSHEET

Industrial Building



Warehouse project - Biohort W3D, Austria

- + 1,400 ductile driven piles with a total meterage of 11,000 metres
- + Pile type TRM 118, in wall thicknesses 9.0/10.6 with grouted pile shoe
- + Strongly fluctuating foundation depths
- + Geology: topsoft soils and clays over varying depths of rock
- + Piles were driven down to the ground rock (pearl gneiss or granite).

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Factsheet **Industrial Building**



Initial situation

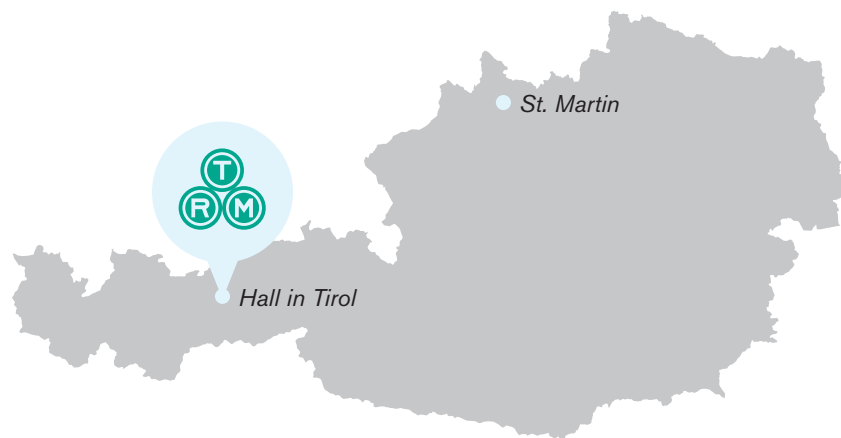
At the project site, north-west of Linz in the Mühlkreis district, production and storage buildings as well as high-bay warehouses were newly built. Geologically, the building site is located in the transition area from coarse-grained pearl gneiss to Weinsberg granite. The general soil structure can be described as follows: The shallow humic topsoil overlies a layer of weathering loam up to 3.5 m thick. Below the weathering clay layer, before the ground rock (pearl gneiss or granite) is encountered,

there is a weathering horizon of granite, which is locally called „flins“. From north to south, the original terrain presents itself as a valley depression with differences in elevation of up to 7.5 metres. In the north, as well as in the south of the site, the ground rock outcrops to just below the top of the terrain. Due to these requirements, the foundation engineering specialist PORR Bau GmbH opted for the TRM Piling Systems.



Thanks to the flexible TRM Piling Systems, the piles can be cut higher than the ground level. This saves the contractor a lot of time and money.

In order to create a level development area, **the entire valley basin was filled in using cement-stabilised material.**

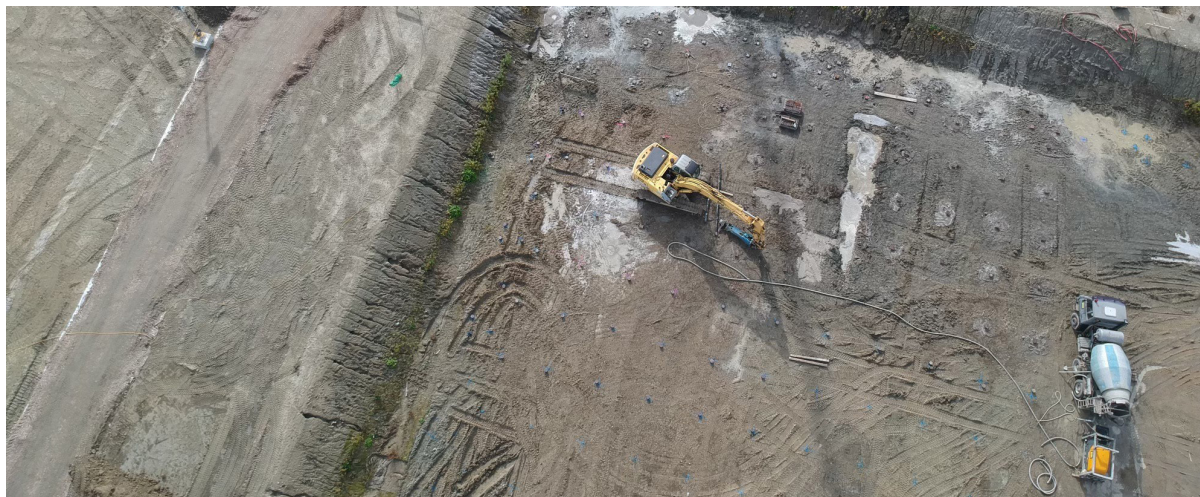


Deep foundation

The deep foundations for all parts of the building (production and storage buildings, high-bay warehouse, etc.) were made using the **TRM Piling Systems**.

In order to be able to safely transfer the loads into the subsoil, the piles **must be installed down to the rock bed**. Due to the geologically difficult situation, with the upper edge of the

rock repeatedly rising and falling, the TRM Piling Systems establish itself as the foundation element. Due to the **flexible adaptability** of the pile lengths, this foundation variant proved to be the ideal solution, both **economically and technically**. Approximately 11,000 metres of TRM 118 piles were thus securing a **stable foundation**.



Piles installed, the excavator is ready for work



A large construction site where the fast installation of the TRM Piling Systems was fully used.

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

