

TRM PILING SYSTEM FACTSHEET

Industrial Building



Expansion of logistics centre, Italy

- + ~ 410 pcs. ductile driven piles with a total meterage of ~15,000 metres
- + Pile type TRM 170, in wall thicknesses 9.0/10.6/13.0 with grouted pile shoe TRM 270
- + Foundation depths up to 45 m
- + High demands on the foundation of the high-bay warehouse
- + Geological: load-bearing soil layers only at lower depths
- + Construction time: 2 months for main foundation (355 piles)

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Initial situation

In the course of expanding the headquarters of Würth S.r.l., a new logistics centre and associated **high-bay warehouse** were built in Neumarkt (South Tyrol) on an area of almost 4000 square metres.

During the soil investigation, it turned out that load-bearing soil layers were only present at

lower depths. Due to the high demands on the foundation of the structure, especially in the area of the high-bay warehouse, and the required work performance (600 running metres/day), the use of **ductile driven piles** was already recommended in the planning phase.

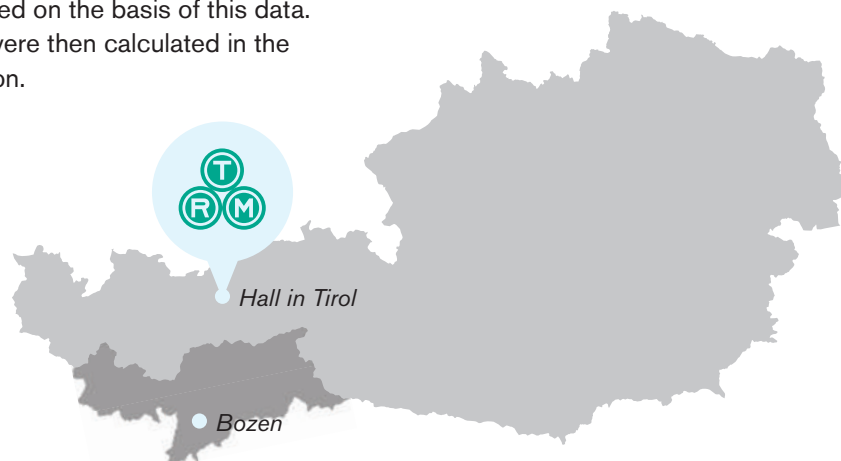


The complete structure stands on TRM piles.

In the beginning, test loads were carried out to explore the load-bearing behaviour as well as the settlement behaviour of the piles in the existing soil.

The design was developed on the basis of this data.

The actual settlements were then calculated in the course of the construction.



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Deep foundation

Due to **experience** and **reliability**, high **production output** and **technical expertise**, the civil engineering specialist Keller Fondazioni chose the **TRM Piling Systems**.

A total of ~410 TRM piles of type TRM 170 were installed, which corresponds to a total length of ~15,000 m - at a depth of up to 45 m.

In addition, geothermal heat exchangers were also installed in the course of the pile installation.

Thanks to the good coordination of the contractors, the deadline for the main work was met and the foundation **was completed in only two months**.



Construction field with installed piles - with geothermal heat exchangers



Blinding layer with pile head plate



Foundation reinforcement

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

