



Neubau Kindertagesstätte mit Mehrgenerationenhaus, Deutschland

- + 116 pcs. ductile driven piles with a total length of 810 m
- + Pile pipe type TRM 118/9.0
- + Foundation depths of up to 7 m
- + Soil conditions: sandy silts, valley gravel and rock
- + Load-bearing subsoil only in deeper layers
- + Construction time (foundation work): 2 months

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The Initial Situation

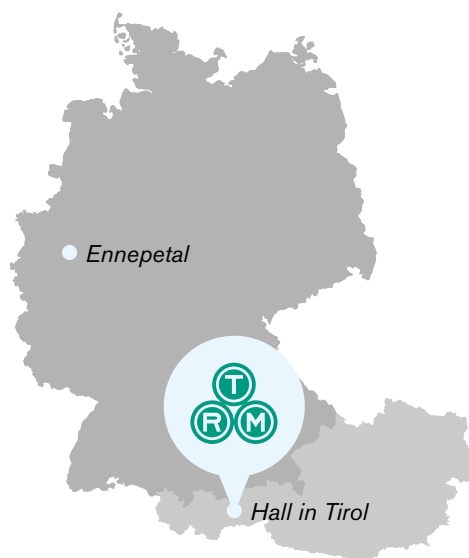
In **Ennepetal** a **daycare center with a multi-generation house** of THOR Zwei GmbH & Co. is to be built. The **three-story, barrier-free building** is designed to accommodate the town's family center and multi-generation house and places high demands on the construction planning and execution. The project posed **challenges for the foundation**, as the natural subsoil, consisting of fillings and soft plastic clay, is **not sufficiently stable** for

the planned building. Only at a depth of around 5 meters below ground level is there load-bearing subsoil in the form of valley gravel and greywacke. This **requires a deep foundation for the supporting structure** in order to ensure a stable base for the building. **TRM ductile driven iron piles** were chosen to realize this deep foundation efficiently and flexibly.



Planned daycare center with multi-generation house

The multi-generation house Ennepetal is a **hub** and a **contact point for family support and advice** in Ennepetal. Different generations, cultures and religions come together here to learn, share interests or simply exchange ideas.



Deep foundation

TRM 118/9.0 ductile driven iron piles were used for the deep foundation of the building. These piles were equipped with **non-grouted TRM pile shoes** **118 pile shoes** and **TRM Octagon pile head plates 220** and driven into the ground to a **depth of 7 meters**. The piles were successfully installed des-

pite the difficult conditions caused by the presence of boulders of different sizes. Thanks to the **high flexibility of the piling system**, it was still possible to achieve an efficient application without any loss of material. In addition, the use of TRM Piling Systems **reduced both costs and CO₂ emissions**.



Pfahleinbringung unverpresster TRM Duktillrammpfähle in Anwesenheit des Tragwerkplaners



Pfahleinbringung unverpresster TRM Duktillrammpfähle



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

