

Sustainable to the core

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Civil engineering/ Infrastructure



Green and Lean – our strategy is going underground. PORR is also particularly sustainable where foundations are laid, the ground is stabilised, and construction pits are sealed.

Our low-CO₂ processes and innovative, resource-saving solutions in special civil engineering make an important contribution to the sustainable development of the construction industry. And our outstanding commitment has already been recognised: PORR Spezialtiefbau GmbH was the first company in the industry to receive the Basic Certificate for *Sustainable Special Civil Engineering Construction Sites* from the *German Sustainable Building Council* (DGNB).

Planning that conserves resources

We already know during the planning phase how big the carbon footprint of a construction project will be later on in its lifetime. This is because only around 5% of CO₂ emissions can still be influenced during excavation and foundation works. This means forward-looking preparation is crucial. Together with our customers, we are therefore developing solutions that are environmentally and economically responsible. And we support them from the outset in selecting the

optimum processes to utilise materials and technology efficiently. In doing so, we pay particular attention to the optimal carbon footprint. What makes environmental sense is often also economically worthwhile. Sustainable processes save resources, energy, and transport distances. Less cement, less concrete, less disposal, less money. We consciously combine environmental benefits with economic efficiency.

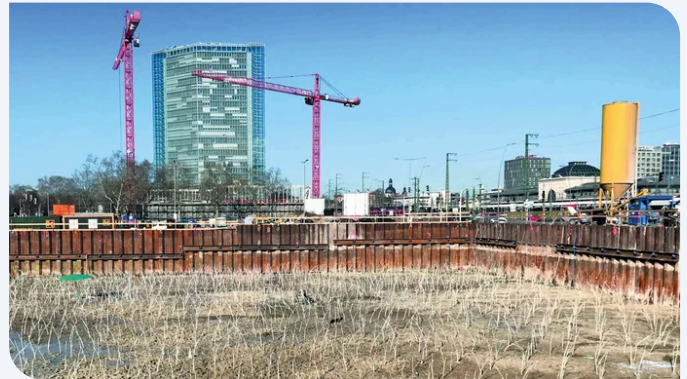


Profitably established

So sustainability pays off. One example is Greenpile®. With this fully displacing pile system, there is no drilling waste. There are no high disposal costs, which is a great advantage, especially in the case of contaminated soil. Depending on the project requirements, we carry out pile foundations using Greenpile® drilled or driven on site. Further advantages are the improved load-bearing capacity of the subsoil due to soil displacement. What's more, the narrow pile diameters significantly reduce concrete consumption compared to conventional bored piles. Less transport, less CO₂.

Environmentally friendly sealing

Sealing bases are used to seal the surface of excavation pits against vertically rising groundwater. Cement-intensive jet grouting processes are traditionally used for this, though we use lower-CO₂ cements wherever possible. A particularly environmentally friendly alternative is the soft gel injection base. This reduces cement consumption by around 90% while maintaining the same level of technical safety and an excellent carbon footprint. Our organic soft gel is one of only four soft gels with general type approval from the *Deutsches Institut für Bautechnik*.



Industry-wide certification

The DGNB certificate for *Sustainable Special Civil Engineering Construction Sites* confirms our outstanding commitment to sustainable construction and the responsible use of resources. When setting up sustainable construction sites, our clients can choose between low-emission pile foundations or environmentally friendly sealing bases and ground improvements. The first five

construction sites certified according to DGNB criteria include projects with permanent anchors, micropiles, jet grouting, mortar columns, Franki piles, and Atlas piles. We are happy to guide our customers through the entire certification process – from planning to implementation

More info

You can find our brochure on sustainability in special civil engineering here (in German):

[Sustainability in special civil engineering](#)