



Gronau

Soil compaction for a residential tower

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Subsoil improvement, Planning
Runtime	04.2022 - 08.2022
Principal	Radke Wohnbau GmbH

[Project report online](#)

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Vibrated stone columns for secure load transference

Economical, fast and environmentally friendly foundations

The vibro replacement method requires neither concrete nor cement, instead using excavated soil material to create the supporting columns.

This makes it one of the most economical, fast and environmentally friendly processes on offer for improving settlement-prone soil at depth. Compaction using gravel or stone columns increases shear strength and load bearing capacity and is particularly useful in close-grained or mixed-grain soil types. Once the vibrator is sunk to the required depth, columns are gradually manufactured from bottom to top. In the process, the coarse-grained backfill material is compressed by the pressurised air in the cavity, and the repeated lifting up and dropping of the vibrator tip laterally displaces and compacts the soil.

Impressions



Image notes

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Soil compaction for residential building, Gronau

Vibro replacement does not require concrete or cement, nor does it involve excavating soil, making it one of the most economical, quickest and most environmentally-friendly methods for improving deep soils at risk of subsidence.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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