

TERRA-MIXTM

_STRAIGHT AHEAD

Seestadt Aspern D5a, D8 und D9

Hybrid foundation »System TERRA-MIXTM«

**_ Building
site report**

_ Execution: July/August 2013

_ Project: Lot D5a, D8 and D9

_ Client: Urbanbau (D5), EGW Heimstätte (D8) and BWS Group(D9)

_ Area: in total some 10000 m²



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Job definition:

On the properties D5a, D8 and D9 several groups of buildings, in parts 8 stories high, were planned. According to the structural engineer ground pressures with $\sigma_{curr} = 100-320 \text{ kN/m}^2$ had to be taken into account. The base plates would be lying in a fine sandy - silty soil of 1 - 3m thickness. Below there was partly a very loosely bedded gravel soil being located largely in the groundwater zone!



Solution:

The Hybrid Foundation System TERRA-MIX was chosen. This method was chosen not only because of its quick and flexible construction progress, but also because many additional advantages due to the replacement base layer would come into play: savings in earth work activities, the fleece and gravel, just to mention a few.



Results:

By creating the 50 - 100 cm thick replacement base layer an optimal load distribution could be guaranteed, also in the areas of cohesive soil, and the required parameters of the structural and geological engineers could be proven all-around!

