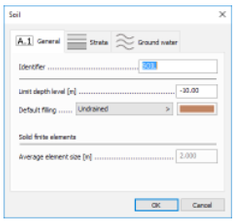
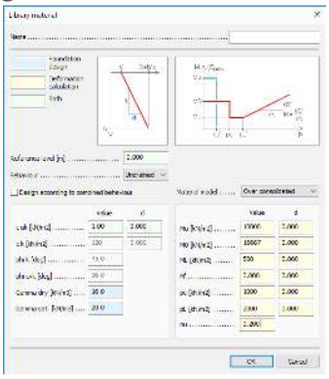
3D Soil

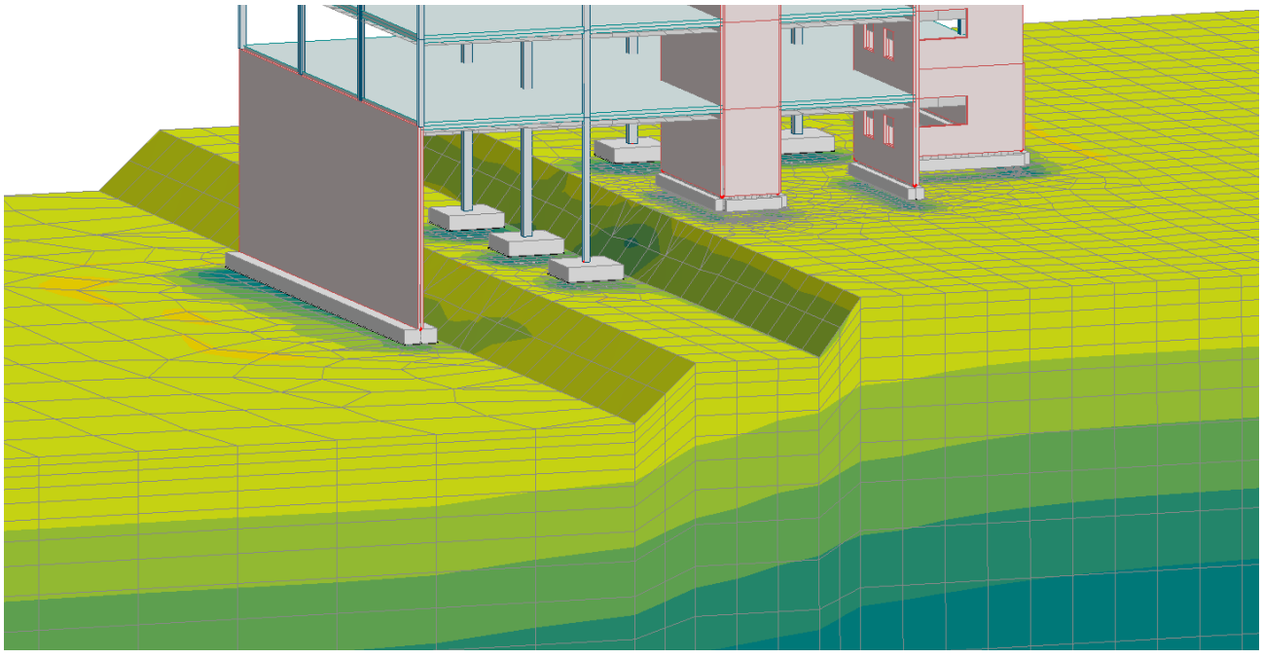
Get control of the ground with FEM-Design's Geo Module 3D Soil

StruSoft continues to target geotechnical engineering by developing useful new functions:

- Basement foundations
- Compensating foundations
- Non-linear soil analysis
- Mohr-Coulomb's failure criterion







Consider the interaction between the structure and the underlying ground with FEM-Design's Geo Module 3D Soil

With FEM-Design's Geo-module 3D Soil, the different soil layers are defined and modeled as volume, using 3-dimensional finite elements. The ground below and surrounding a structure becomes part of the entire construction, which results in a complete analysis model.

The ground is then analysed together with the overlying structure, for which linear and non-linear soil models are used together with Mohr-Coulomb's failure criterion. This gives a more accurate picture of the stresses and deformations in the ground compared with modeling based on raft models.

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