



ADAPT

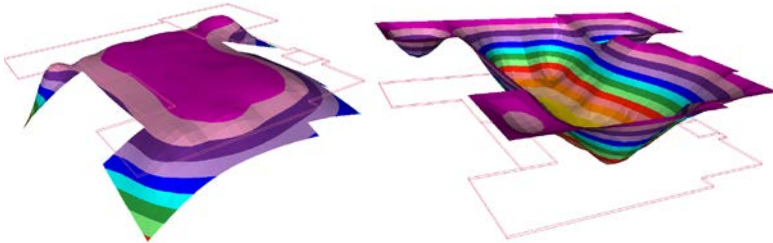
ADAPT-SOG® Slab-on-Grade Foundation Design Software

The industry's most powerful software for the design of post-tensioned slabs on expansive soils.

ADAPT-SOG produces effective, accurate designs with confidence. Other design approaches for post-tensioned slab-on-grade foundations rely on simplified and approximate methods which largely lead to overly conservative designs. ADAPT-SOG differs by providing an accurate 3D Finite Element Analysis (FEA) which complies with the PTI recommended design approach.

Unparalleled modeling flexibility allows you to model any foundation configuration, including grade beams, piers, and ribs, as well as plan irregularities, steps in the slab, and varying soil properties. Gravity and Lateral loading can be applied at any location on the slab. Simple modeling tools support the layout of post-tensioning tendons as they will be constructed. The software analyzes the slab and automatically checks allowable stress limits at critical locations. Engineers and lawyers count on ADAPT-SOG to ensure investigative evaluation reports are professional and clear, with sophisticated results output, including deflection contours, graphic displays of soil pressures and concrete stresses. ADAPT-SOG automatically generates post-tension tendon layout drawings for use in construction documents including tendon elongations and drapes.

ADAPT-SOG enables the designer to consistently provide efficient designs in challenging sites with the confidence that the slabs will perform significantly better than designs from other approaches, reducing risk in potential litigation.



Modeling Capabilities:

- 3D model of foundation leads to more accurate analysis
- Handles any geometry or loading condition (gravity & lateral)
- Supports any user-defined configuration of post-tensioning
- Import and easily convert DWG and DXF files into 3D model

Key Features:

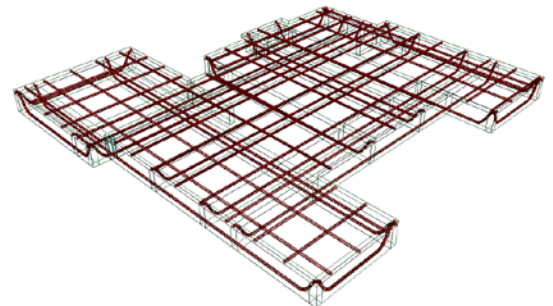
- Analyzes center and edge lift conditions
- Accurately calculates deformed shapes and stresses
- Automatically performs bending and shear stress check
- Shows locations where allowable stress due to PT is exceeded
- Generates professional graphic and tabular reports
- Optionally reports tendon chair heights for shop drawings

Applications:

- Residential
- Light industrial
- Tennis courts
- Super flat slabs for warehouses

Supported Design Codes:

- PTI procedure
- IBC (International Building Code)
- UBC (Uniform Building Code)



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