

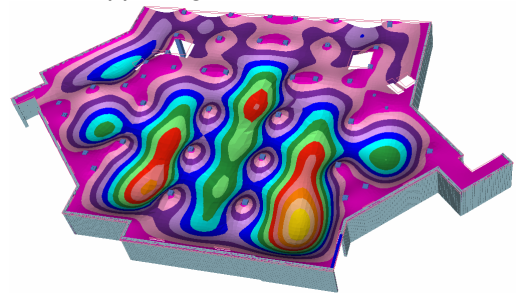
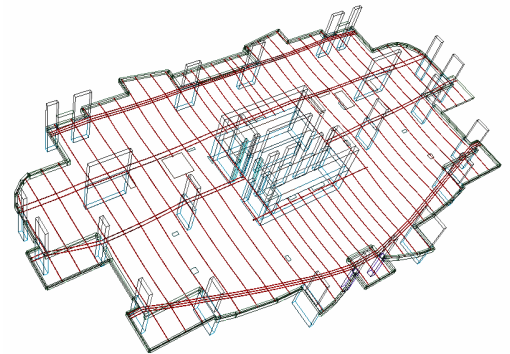
ADAPT-Builder EX[®] v3

Structural Concrete Design Suite

Three-dimensional (3D) Finite Element Software for Analysis and Design of Concrete and Post-Tensioned Slab and Foundation Systems. Built on ADAPT BIM Technology, this software provides a powerful, yet easy to use tool for the analysis of all types of slabs and mat foundations. Unlike other 2D diaphragm-based slab design programs, ADAPT-Floor Pro's true 3D FEM analysis provides the most accurate results even for the most complex transfer and waffle slabs. Its Dynamic Rebar Design (DRD)[™] module gives structural engineers complete control over the design and detailing of mild reinforcement, leading to optimized designs. Its BIM-based modeling approach supports a unique bi-directional integration with the leading BIM platform, Revit[®] Structure.

Key Features:

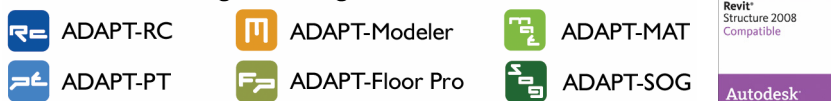
- Generates a true 3D solid model of an entire floor system
- Imports various file and model formats
 - DWG/DXF files
 - REVIT[®] Structure model (1:1 bi-directional integration)
 - ETABS model (geometry, lateral, and gravity loads)
 - Staad.Pro model (geometry and gravity loads)
- Uses Component Technology to assemble an entire floor system using structural components, such as slab regions, walls, columns, drop caps, drop panels, and openings.
- Models slabs, steps above and below the slab, and beams
- Dynamically model and edit tendons in plan or elevation
- Supports live load patterning and automatically reduced live loads, where applicable
- Performs a detailed finite element analysis of the entire floor systems and its supporting structure
- Calculate cracked section deflections and view extent of cracking in slab and beams
- Specify typical top and bottom reinforcement mesh
- Easily define support lines - even for complex geometries
- Automatically generates all critical design sections
- Column strip / middle strip option
- Performs code check and reports the location and amount of reinforcement needed
- Calculates punching shear stresses and performs check
- Designs punching shear reinforcement (shear stud or stirrup)
- Generate both graphical and tabular reports
- Edit graphical rebar layout report to optimize rebar layout
- Export rebar and post-tensioning structural drawings directly into AutoCAD



Supported Design Codes:

- ACI-318 (1999 & 2005)
- IBC (International Building Code) 2003
- British-BS8110 (1997)
- Canadian-A23.3 (1994 & 2004)
- Australian-AS3600 (2001)
- Brazilian-NBR6118 (2001)
- Indian IS456 (2005 reprint)
- European EC2 (2004)

ADAPT-Builder[®] Design Suite Programs:



Autodesk
Authorized ISV Partner

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Your Partner in Concrete Design