



ADAPT-Builder
Structural Concrete Software

ADAPT

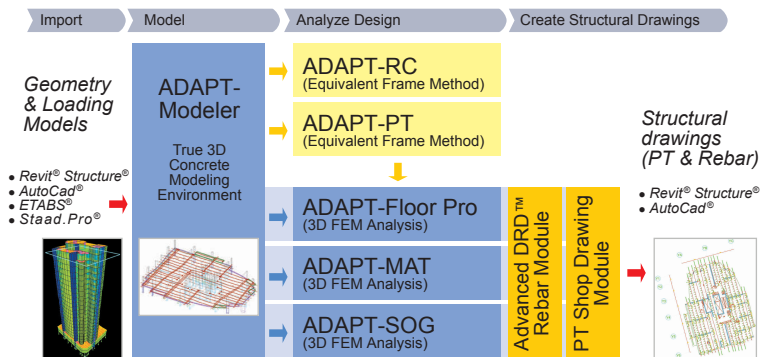


Suite of Programs

ADAPT-Builder benefits:

- True Physical Modeling using Component Technology
- Dynamic Rebar Design
- Dynamic Tendon Modeling
- High Degree of Accuracy
- Flexibility of EFM for 3D FEM analysis
- Most productive concrete design solution for slabs and foundation systems

COMPONENT TECHNOLOGY



ADAPT-Builder includes its primary module - ADAPT-Modeler. ADAPT-Floor Pro, RC and PT complete the comprehensive suite.

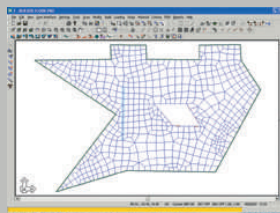


ADAPT-BUILDER



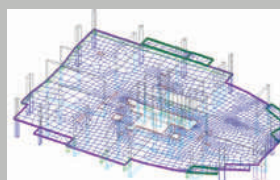
ADAPT-Builder integrates Finite Element Method (FEM), Equivalent Frame Method (EFM) and Component Technology for the design of concrete buildings, beams and parking structures, with or without post-tensioning. ADAPT-Builder features the ADAPT-Modeler module to create authentic 3D visualization of the structure. Calling the ADAPT-Floor Pro module, the program performs FEM design of the floor using its automatic mesh generation. Post-tensioning of any shape can be placed anywhere. It reports the location, amount and length of reinforcement where needed. ADAPT-Builder links with the industry standard programs ADAPT-PT (for post-tensioned floors) and ADAPT-RC (for nonprestressed floors).

ADAPT-MODELER



- Graphical 3D structural model
- Import DWG/DXF or create your own model
- Supports, steps, beams, openings anywhere
- Ramps for parking structures
- Loads any shape, anywhere

ADAPT-FLOOR PRO



- FEM analysis
- Automatic mesh generation
- Automatic code check, location, amount and length of rebar

ADAPT-Builder Key Value Propositions:

- Integrated and comprehensive solution
- Choice of EFM and 3D FEM
- Accurate analysis and design results, even for the most complex structures
- Based on Component Technology that creates a true physical model of project. Builder automatically generates accurate analytical model using ADAPT's advanced automated meshing algorithm
- Software supports most streamlined concrete design process that starts with information in CAD files to generate true physical model of project and ends with CAD structural drawings of reinforcement and post-tensioning
- Integrated advanced rebar design features for optimized results
- For a wide variety of slab and foundation systems
- Integrated design software support a variety of international design codes

Modeler

- Modeling platform for Builder Suite
- Uses component technology for true physical modeling
- Accurately and quickly allows user to capture design intent of project - geometry, design criteria, loading and material properties
- Models all configurations of floor and foundation systems: one-way, two-way, pan joist, waffles, beam frames, girders, with any opening or irregularity.
- Generates input models for integrated analysis and design programs
- Intuitive graphical interface
- Superior modeling capabilities - from imported DWG/DXF or from scratch
- Can import ETABS, STAAD and Autodesk Revit Structure models

ADAPT-PT (also listing features from v8)

- World's most popular production tool for design of post-tensioned slabs, beams and floor systems.
- 25 year proven track record.
- Based on proven Equivalent Frame Method of analysis.
- Easy to learn and use.

- Automated design and optimization algorithms.
- Integrated punching shear reinforcement design
- Excellent tool for preliminary designs.
- Comprehensive reports.
- Interactive graphics.
- Automated rebar design and code check.

ADAPT-RC

- Analysis and design tool for RC slabs, beams, and beam frames.
- Based on proven Equivalent Frame Method of analysis.
- Excellent design tool for quick design of RC flat slabs; one- and two-way.
- Offers design and investigation modes.
- Cracked section analysis
- Integrated punching shear reinforcement design.
- Comprehensive reports
- Interactive graphics.

ADAPT-Floor Pro

- Industry's most advanced 3D FEM analysis and design software for concrete floor systems.
- Reinforced, post-tensioned, and hybrid slab design
- Uses true physical model of

project generated in ADAPT-Modeler.

- Advanced automated meshing generates accurate analysis results.
- Automated generation of design strips and sections.
- Integrated punching shear reinforcement design.
- Live load skipping with automated reduction factors
- Automated design of reinforcement and code check for entire floor systems
- Generates fully editable reinforcement design
- For design of post-tensioned slabs, includes dynamic tendon modeling capabilities.
- Integrated beam design.
- Easily models and accurately analyzes even the most challenging structures.
- Incorporates lateral load cases in design.
- Cracked section analysis

Supplementary Modules:

ADAPT-MAT / SOG

- Advanced foundation system design using 3D FEM analysis.
- Reinforced, post-tensioned, or hybrid construction.

- Raft (MAT) foundations small or large can be quickly modeled, analyzed and designed using this software
- SOG has special features for the design of foundations on expansive, compressible soils

Dynamic Rebar Design (DRD) Module

- Advanced rebar design capabilities enhance power of ADAPT-Floor Pro and MAT to give design engineers full control over their reinforcement design and layout.
- Dynamically editable reinforcement can be fine-tuned to produce optimized designs.
- Save time and reduce errors by not having to print and mark-up your rebar design - simply produce CAD ready drawings

PT Shop Drawing Module

- Automatically generate PT shop drawings from your post-tensioning designs in ADAPT-Builder
- Calculates friction losses, theoretical elongations and associated reports
- Chair heights shown in plan or elevation at user-specified spacing intervals

TECHNICAL SUPPORT AND TRAINING

ADAPT products and services are backed by world class technical support and training. A team of dedicated engineers provide our clients with on-site and off site training to ensure that they can fully utilise the power of ADAPT Softwares. We provide online training, on-site training, specialised workshops, refresher courses and customised training camps to enhance the knowledge of our clients across the world.



Structural Concrete Software

Dedicated to Design Professionals – Your Partner In Concrete Design

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