

## ADAPT-PT/RC® All-in-One Software for Beams and Slabs

*The world's most popular software for the design of post-tensioned and mild reinforced projects*

ADAPT-PT/RC 2014 is a highly efficient, reliable, fast, and easy-to-use software for the analysis, design, and investigation of any concrete project. It supports concrete beams, pan joist, one-way and two-way slabs systems - for conventionally reinforced (RC) and/or post-tensioned (PT) projects. It is based on the Equivalent Frame Method of analysis and leads the user through a simple to follow, step-by-step modeling and design process. Its unmatched ability to speedily produce optimized designs and quantity take-offs in minutes have made it the tool of choice for design professionals seeking to complete their concrete projects profitably and consistently on time.

Designers of post-tensioned beam and slab parking structures, in particular, find ADAPT-PT/RC to be the best suited solution for their type of projects. And, ADAPT-PT/RC is widely deployed as a training tool for engineers new to the design of post-tensioning.

### Applications and Project Types:

- Concrete slab systems (buildings)
  - One-way slabs and two-way flat plates
  - Waffle, pan joist, and skip joist systems
- Beams and beam frames (parking structures)
- Bonded (grouted) and unbounded post-tensioning
- New design or capacity investigation



### How PT/RC Saves you Time & Money:

- Allows you to use one software for your PT & RC projects
- Eliminates need to pay two annual maintenance fees
- Improves productivity by only needing to learn one system
- Supports interchangeable PT and RC models

### Supported Design Codes:

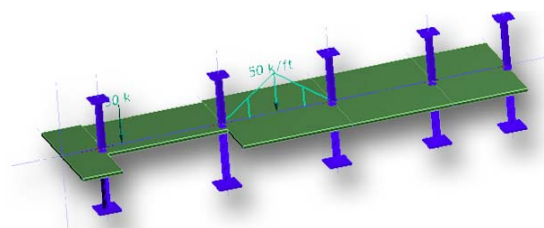
- ACI-318 (1999, 2005, 2008 & 2011)
- IBC (2006, 2009 & 2012)
- British-BS8110 (1997)
- Canadian-A23.3 (1994 & 2004)
- Australian-AS3600 (2001)
- Indian IS1343 (2004 reprint)
- European EC2 (2004)
- Hong Kong CoP (2007)
- Chinese GB 50010 (2002)

### Key Modeling Capabilities:

- 3D structural view reduces modeling errors
- Models design strips with regular or irregular geometry
- Supports drop caps, drop panels and transverse beams
- Multiple tendon profiles with customizable shape functions
- Tendons anchored and stressed at any location
- Supports any user-defined configuration of base reinforcement

### Key Analysis Features:

- Simple or Equivalent Frame analysis options
- Design for crack width (Euro code)
- Cracked deflection calculation
- Automatically combines gravity and lateral loads
- Calculates secondary (hyperstatic) actions in PT mode
- Investigation of existing slabs and beams
- Integrated friction, long-term loss, and elongation calculation
- Automated live load skipping





### Advanced Interactive PT Design:

- Automatically calculates optimized design based on user- and code-specified design parameters
- Interactive design review dashboard clearly shows all relevant metrics of each design iteration
- Instantly shows effect of changes in tendon force and profile
- Performs code check for reinforcement and post-tensioning
- Calculated reinforcement checked against base rebar
- Offers moment redistribution option
- Integrated punching shear design for studs or stirrups
- Checks beam shear capacity and calculates stirrup requirement



### New Features & Improvements in 2014:

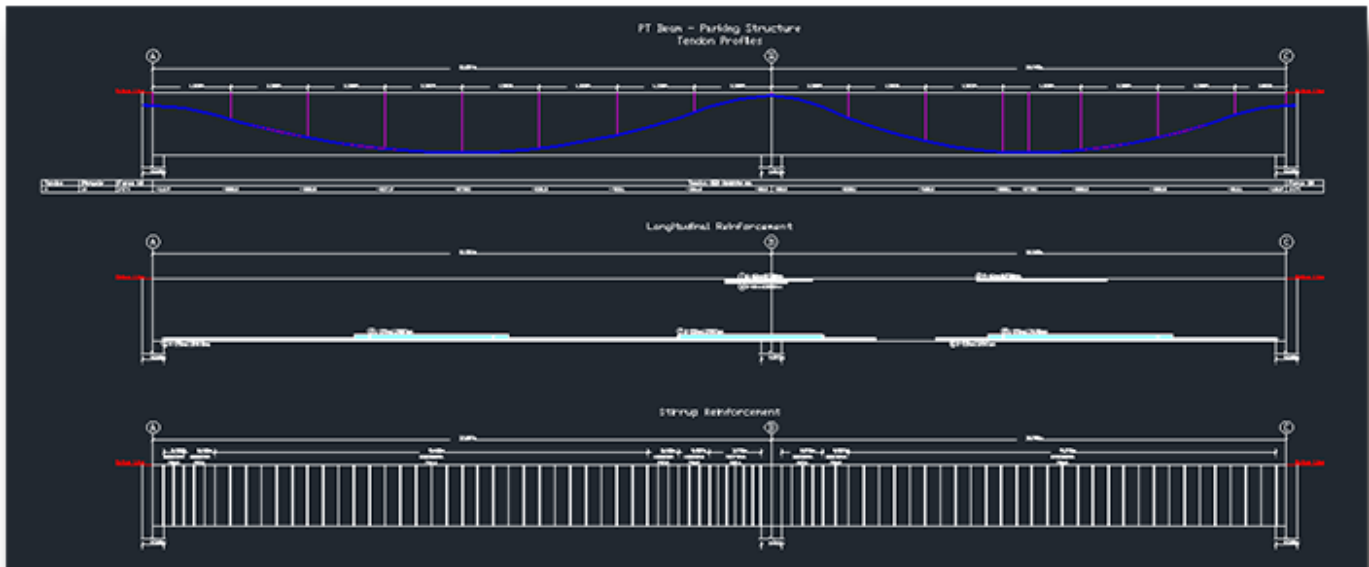
- Combined PT and RC design modes
- Ability to switch models between design modes
- Improved segmental input modeling for complex geometries
- Explicitly design for crack width under Euro Code option
- Reporting and graphing of crack width
- Reporting and graphing of long-term deflection for design sections
- Improved program operability on network drives/servers
- Active entry of PT force/width in Recycling Window
- Extended reporting of patterned live load deflections
- Quantity reporting for summary output
- DXF output for calculated reinforcement
- Detachable network soft licensesÆ

### Available Reports:

- Concise tabular and graphical reports
- Summary report for reinforcement
- Material quantities
- DXF export of reinforcement in elevation
- DXF export of tendon CGS profile(s) or support heights

### Licensing Options:

- PT/RC for post-tensioned and mild reinforced projects
- RC for mild reinforced projects onlyÆ



Consolidate your workflow and licenses to save time and money with PT/RC

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