



ADAPT-Builder 2018 Release Notes

September 2018

Feature Enhancements

This release of the program features major enhancements in productivity, scope, and accuracy.

The following is a summary of the principal enhancements:

Building Design Codes

Australian AS3600-2009 and Hong Kong CoP 2013

New Program User Interface

ADAPT-Builder 2018 has been completely overhauled with an updated program user interface (UI) for improving the user experience and offering an easy-to-use, efficient and intuitive program environment. The UI is now ribbon based containing contextualized ribbons including general categories like visibility, modeling, analysis, design and reporting. Each ribbon contains ribbon-specific tool panels with updated, refreshed icons. New summarized and extended tool tips have been included for each tool and tool panel.

New Splash Screen

The program has a new simplified and condensed splash screen with an expandable selection window. The splash screen shows the current program state.

Auto-Filter for Program States

The program now auto-filters the available tools that apply to the splash screen selections made by the user prior to entering the UI. Only ribbons, panels and tools applicable to the state will be shown to streamline usage. Ribbons, panels and tools not applicable to the current modeling, meshing, analysis, design or level state will be grayed out and inactive.

Wall Openings

Walls can now be modeled with openings in a simple-to-use input window embedded in the wall properties. The user enters the opening start coordinates and the length and width of the wall opening. Multiple wall openings can be added to walls.

support@adaptsoft.com www.adaptsoft.com

ADAPT Corporation, California, USA, Tel: +1 (650) 306-2400 Fax: +1 (650) 306-2401
ADAPT International Pvt. Ltd, Kolkata, India Tel: +91-33-302 86580 Fax: +91-33-224 67281

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ADAPT

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Advanced Meshing Options

Meshing options have been consolidated and new options are available for applying an advanced meshing algorithm for meshing of walls with or without openings. The simplified meshing option is similar to previous versions and will disregard wall openings by default.

Dramix® Steel Fiber Modeling and Design

Bekaert's Dramix® steel fibers can be modeled as part of a defined concrete material property. Multiple fiber types are available with dosage ranges for selection. Steel fibers can be applied to slabs-on-grade, mat slabs, slabs-on-piles and elevated slabs and are considered for calculation of minimum reinforcement, one- and two-way shear and flexure.

Non-Linear Design

For slabs-on-grade, mat slabs and slabs-on-piles with Dramix® steel fiber, the selection for non-linear behavior can be used for consideration of post-elastic capacity for flexural behavior.

Slab-on-Grade Joint Spacing and Load Transfer

For slab-on-grade designs with Dramix® steel fiber, the program calculates joint spacing requirements and load transfer factors across joints for edge and corner zones of a slab panel.

New 2018 and 2019 Revit Integration Link

New ADAPT-Revit 2019 and updated ADAPT-Revit 2018 Integration Links were created for compatibility between ADAPT-Builder 2019 and Revit 2018. Features included are:

- Import geometry to ADAPT
- Import applied loads to ADAPT
- Import load combinations to ADAPT
- Export geometry and gravity loads to Revit
- Export reinforcement and post-tensioning to Revit

Bug Fixes

This release includes corrected bugs and improvements over version 2017. A detailed description is provided in the log file, **LOG_Builder.txt**, in C:\Program Files (x86)\ADAPT\ADAPT-Builder 2018.

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Minimum System Requirements

64bit PC - Windows 7/Windows 8/Windows 10

Available hard disk space of 500 MB minimum
Memory – 4 GB RAM or greater

Processor speed – Single- or Multi-Core Intel processor or AMD equivalent. Highest attainable CPU speed rating is recommended.

Compatibility with Other ADAPT Products

Backwards compatible through save as function to Builder v2012. Compatible with ADAPT-PTRC v2017 and v2018 through use of the design strip export tools.

Available Documentation and Other Learning Resources

Program manuals:

- ADAPT-Builder 2018 Graphical User Interface Quick Reference
- ADAPT-Builder 2018 Getting Started Guide/User Manual
- ADAPT-Builder 2018 Tutorial
- ADAPT-Floor Pro Basics 2018 User Manual
- ADAPT-Floor Pro 2018 Tendon Modeling Supplemental Manual
- ADAPT Wall Designer Operation and Theory Manual
- ADAPT-MAT Basics 2018 User Manual
- ADAPT-Modeler User Manual
- ADAPT-Builder Criteria Settings
- Tips and Tricks in Modeling with ADAPT-Builder

Instructional Videos:

https://www.youtube.com/playlist?list=PLZmjn4_KnTkiR-5K27rcXbmxeGIcCYy9

More Information

For up-to-date info on ADAPT software, go to:
<http://www.adaptsoft.com/updates>.

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