

ACES V6.7

MAJOR NEW FEATURES

1. GEOMETRY

- ❑ **End Releases** – The total number of end releases allowed in a model has been increased to 1000.

2. PSC Design Module

- ❑ This module performs the design of pretensioned concrete Super-T and related beams in accordance with the general design approach given in the AS5100.5 Australian Standards design code. The module can either be accessed directly from within the main ACES program or run in stand-alone mode.
- ❑ When accessing the module from the main program only section property data is automatically imported – all loads and forces must be manually entered.
- ❑ Passive (non-prestressed) reinforcement is taken into consideration in the Ultimate Limit State check (c.f. partial prestressing). However, torsion and cracking are not included in the design check.
- ❑ Calculation logs give detailed descriptions of every equation used in the analysis as well as the immediate value of every parameter and variable set during the calculation.
- ❑ All equations and algorithms used in the design can be changed and customised.
- ❑ Parameter definitions used in the dialog boxes and equations can be changed to suit local conventions.
- ❑ A large number of parameters can be preset and saved to a defaults file. They will be auto-loaded when a new design is initiated. Default parameters can be customised.
- ❑ Output reports are in HTML form. The full design logic, all equations and all associated parameter values are shown.
- ❑ All reports can be customised using standard HTML editors.

3. MME MODULE

- ❑ **Envelope of Envelopes** – This feature allows complex envelopes to be created. Note that in the final report only the envelope responsible for a particular maximum value will be shown and not the actual loading combination.
- ❑ **Saving and printing reports & print formats** – After a report has been generated an integrated dialog box is displayed that allows the report to be printed or saved. It also permits a report format to be selected (normal or spreadsheet) and gives direct access to the printer setup.
- ❑ **Print Options** - A '*Print options*' button has been provided on the "*Create & edit envelopes*" and "*Envelope of envelopes*" dialog boxes. It allows printer options and report formats to be set before creating the reports.

4. BUG FIXES

- ❑ **On-line Updates List** - Refer to Option 1 in the Client Support page of the ACES web site (at www.aces-systems.com) for a comprehensive list of all updates and bug fixes that have been implemented in all of the versions and revisions since V6.000 was first released.