BEAMD 2008 List of Enhancements

Highlights

- Tapered sections may now be defined.
- Deflections may now be calculated according to the 'numerical integration' method.
- Simplified detailing rules:
  The user may define a set of rules that specify the bar lengths.
- New detailing method:
  Uniform top bars along the whole beam plus additional top bars where required.

Detailed list

General:

- Support names and the beam name can now be defined in the 'Beam wizard' menu.
- 'Print' option is now available in the Menu bar of all tables.
- Setup:
  - BS8110: the value of γ_s may now be defined in Setup.
  - Detailing: the user can now select the default display method for the detailed beam: Elevation, Exploded or both of them.
- The beam name and folder are now displayed in the title bar of all screens.
- Singapore Code CP65 is now available.
- Reinforcement weight table: weight for each diameter may now be displayed.
- The default parameters of each user are now saved in the user's computer when working in a network, i.e. when one user changes defaults it does not affect the defaults for other users.
- "Save beam?": the question is now displayed only if a parameter has been revised.

'File' options:

- Delete beam: detailing only may now be deleted.
- Select project: the menu has been improved.
- The maximum number of beams in any folder has been increased to 3999.

Geometry:

- Tapered sections may now be defined. Different values of the beam height, width and/or the flange width may be defined at the span ends. Reinforcement and links are calculated at each interval according to the beam section at the location.

Design:

- Reinforcement at supports may now be designed according to the moment at the support face instead of the center.
- Slabs: The program now suppresses the 'Increase width' option if 'No shear reinforcement' is selected.
- Deflections: the user may now calculate the deflections according to the 'Numerical integration' method. This method calculates the effective section at many intervals along the beam instead of using a single value.

Detailing:

- The user may now choose one of the three detailing methods for each beam:
  - New method: Uniform top bars along the whole beam plus additional top bars where required.
    The user has the flexibility to choose the location of the top bar lap location:
    - According to the maximum bar length.
    - At the spans centers.
    - Not indicated on the drawing
  - Cages
  - Standard (top reinforcement per support and link hangers in between).
- Simplified detailing rules:
  The user may define a set of rules (in the detailing Setup option) that specify the minimum bar lengths.
  For example, top bars at an interior support will always extend to at least $^1/_3$ of the span length.
  The program also checks the bar length according to the code requirement and extends it if needed.

- DXF:
  An option has been added to create a DXF file with the beam actual dimensions (no scale).

- Elevation display:
  - The user is able now to control the arrow sizes and the distances between elements in the drawing (e.g. between the dimension line and the beam), i.e. the drawing can be arranged to be more compact format.
  - An option has been added to display the dimensions to the bar start and end, i.e. the elevation drawing may now be used without a bars schedule.
- Improvement in the links (stirrups) dimension line display.

Layout:

- An option to automatically place the beams on the drawings has been added.
- An option to automatic create beam sections has been added.
- If a beam length exceeds the drawing size, the program now automatically divides the beam into two or more parts, drawn one below the other.
- An option to align beams has been added to the 'right-click' menu.
- The list of beams in all the program options may now be sorted either by the beam number or the beam name.