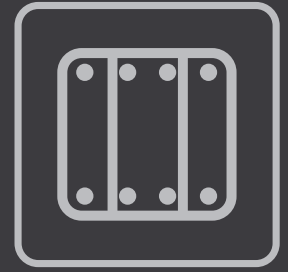


# CADS RC Beam Designer

## ENGINEERING SOFTWARE



### Overview

CADS RC Beam Designer engineers are offered a comprehensive selection of complete reinforcement solutions, which the software creates automatically in accordance with the chosen design standard. Users may also define their own bar arrangements or select from the user-library. Hence, the software can be used to automatically create a new design or for checking an existing one.

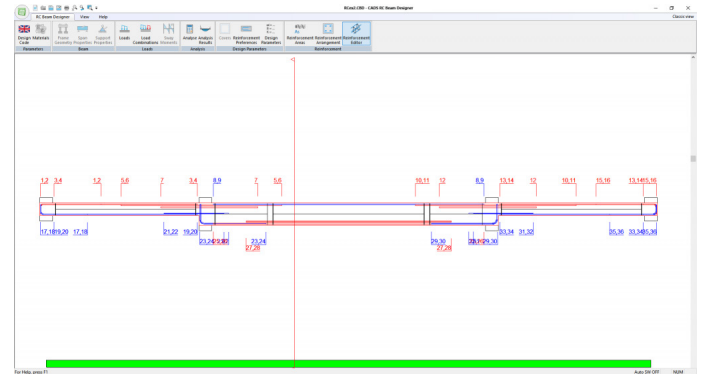
### Summary

- CADS RC Beam Designer can be used for the design of continuous structural beams or foundations. Designers are offered a comprehensive selection of complete reinforcement solutions, which the software creates automatically, in accordance with either British Standards or Eurocode.
- With its own built-in sub-frame analysis capability CADS RC Beam Designer may be used stand-alone or linked to CADS A3D MAX frame analysis software.
- Automatic reinforcement schedules and details can be produced via a link to CADS RC detailing software or dxf output.

### Features

#### Analysis pattern loading & redistribution

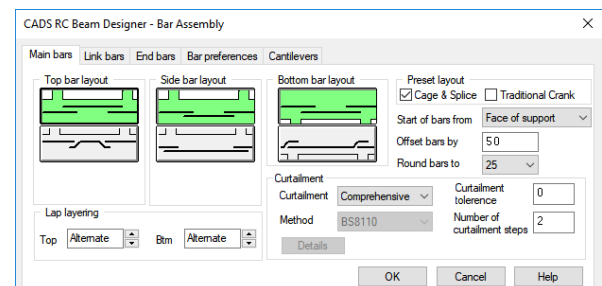
Automatically provides the bending moment and shear force envelopes in accordance with BS8110 or Eurocodes.



Main window layout

#### Automated RC design under user control

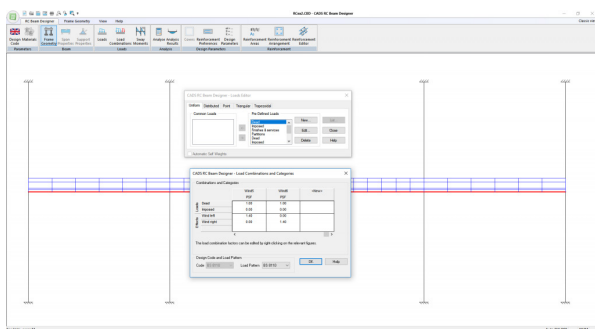
Design criteria & bar details are all user-definable which means that the software can be adapted to match user and project needs.



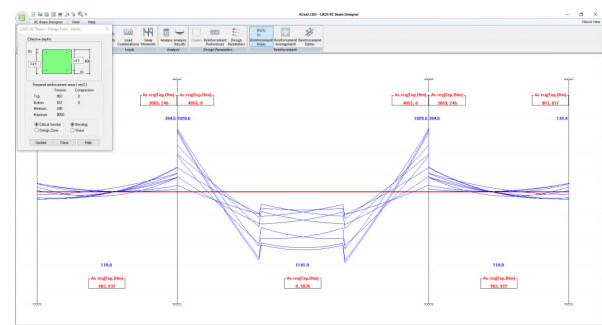
Reinforcement preferences

#### Designing cross-sectional bar details

The 'Rebar Pre-selector' automatically provides users with a choice of bar arrangements that satisfy the requirements of the specified design code.



Load and load combination input



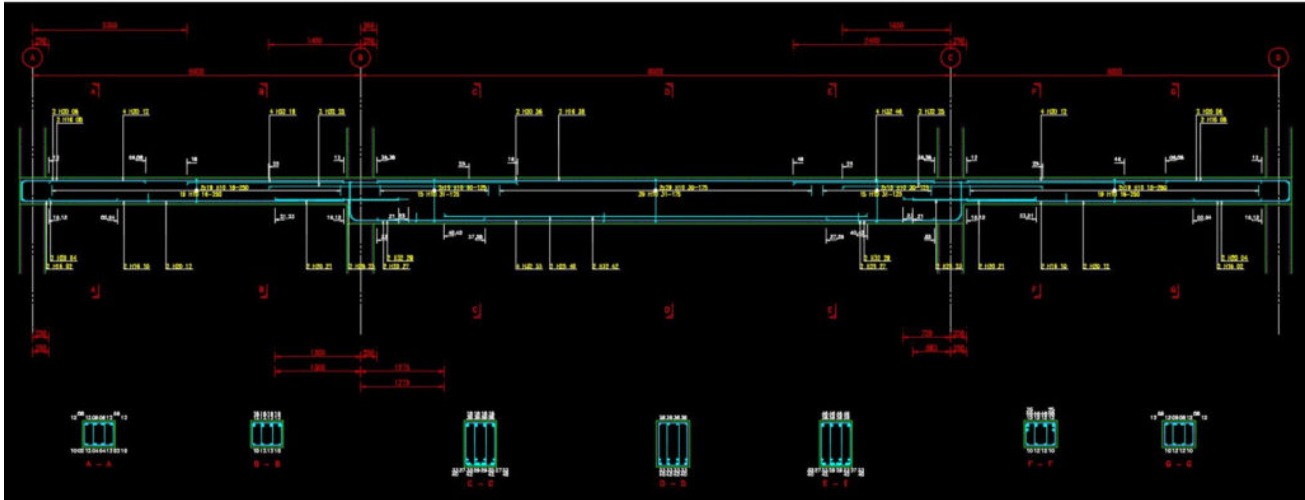
Reinforcement areas

## Longitudinal design: laps & curtailments

Provides automatic design of laps and anchorages for all bars in the beam, including end bars, links and sidebars.

## Automatic detailing in AutoCAD

Completed designs can be used by the CADS RC Beam Detailer macro in AutoCAD. Part of the powerful CADS RC detailing system the RC Beam Detailer is able to read the design and automatically create an intelligent drawing in just a few seconds!



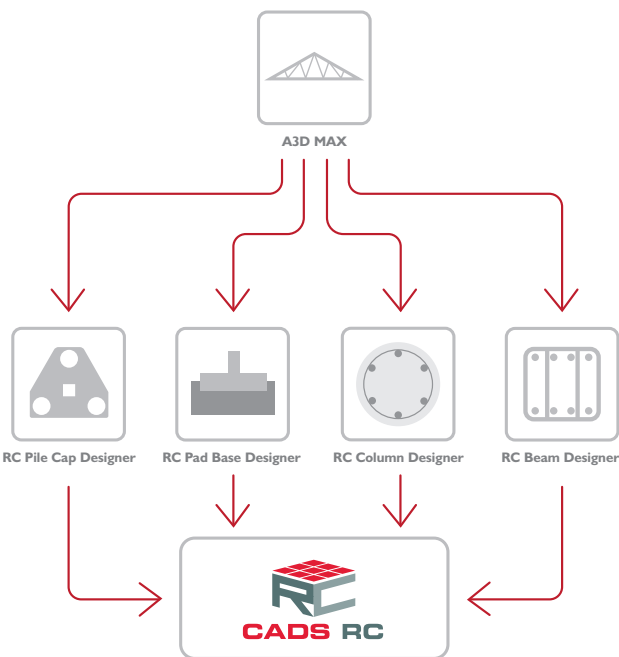
CADS RC Beam Designer

## Rebar editor: making/checking changes

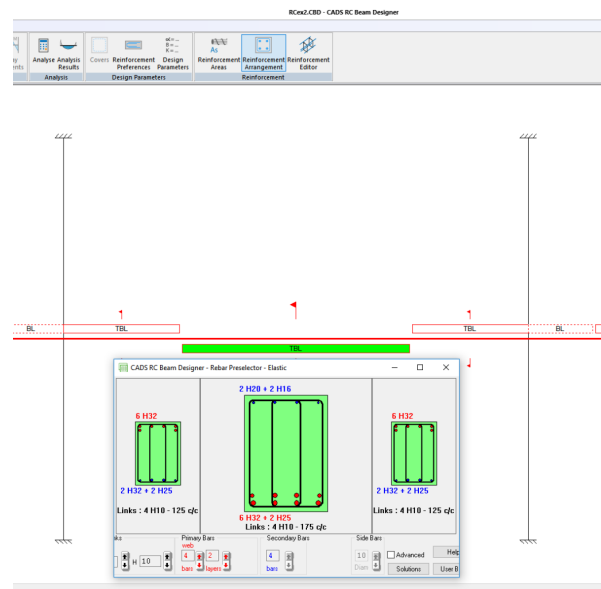
The rebar-editor is the most powerful design tool of its kind allowing users to make changes to bar lengths and splices.

## Print detailed and summary calculation results

Printout options include a compact one-page summary, output of a raw text (.txt) file and the CADS Word Macro which automatically creates a report in Microsoft Word.



Concrete design flow chart



Reinforcement arrangements