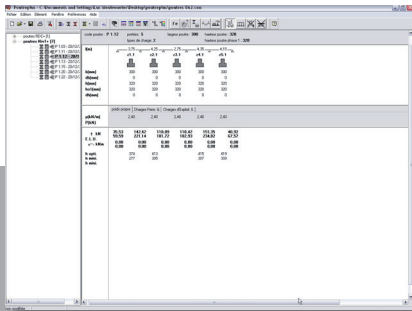


ConCrete

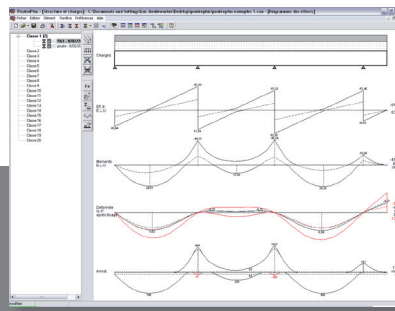
SOFTWARE FOR DESIGNING
CONTINUOUS BEAMS IN REINFORCED CONCRETE



Intuitive

Within ConCrete's user-friendly environment, you define model geometry, cross-sections, (elastic) supports and loads interactively.

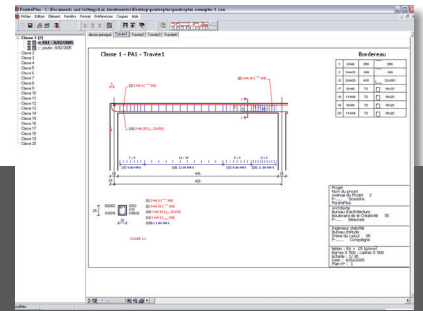
Through a few mouse clicks, you can easily change any design parameter. Instantly, all related analysis results (from internal forces up to reinforcement diagrams) will be updated automatically – maintaining full associativity between analysis data and results.



Powerful

ConCrete performs organic design calculations in compliance with Eurocode 2.

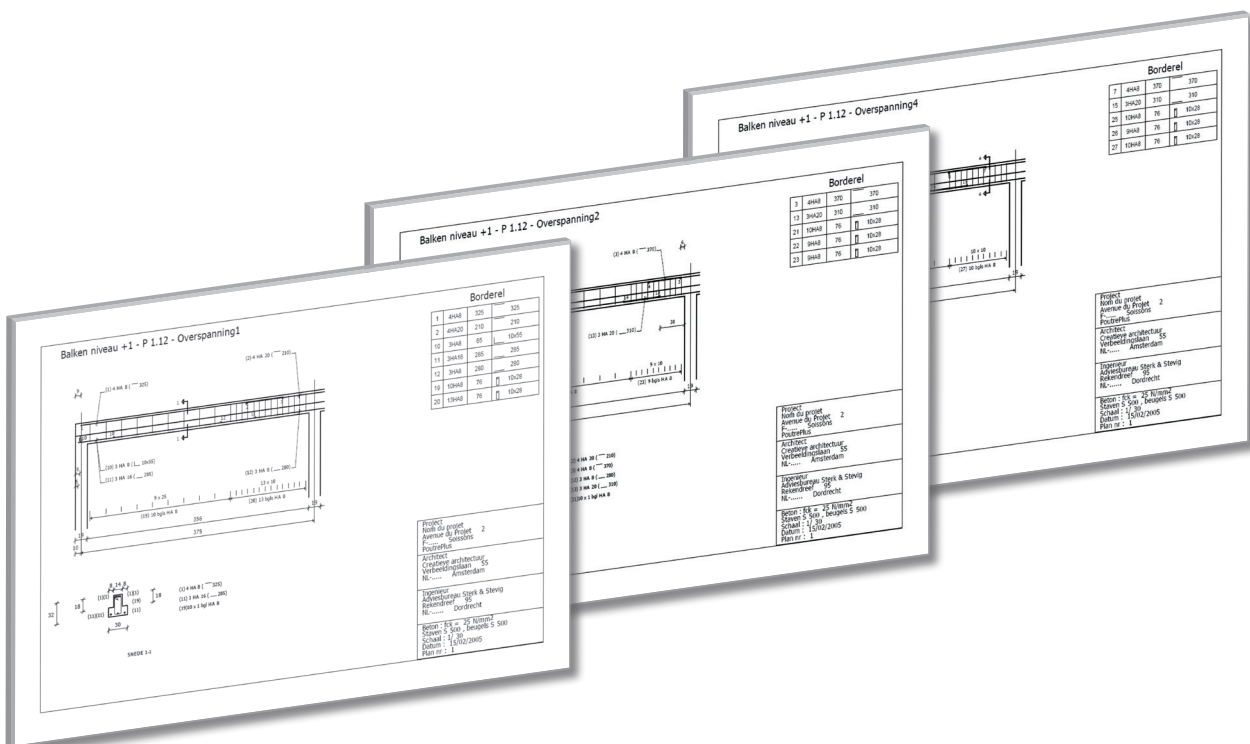
ConCrete instantly provides you with deformations (considering the effects of cracks and creep), internal forces, reinforcement requirements, ... and presents all of this in clear graphs. Results of design verifications are translated into reinforcement plans and cutting lists.



Options

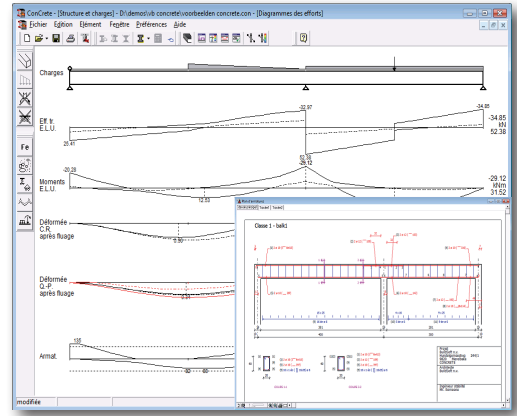
ConCrete is split in 2 dedicated modules:

- With ConCrete, the engineer performs the actual limit state design of reinforced concrete beams.
- ConCrete Plus enables the designer to create reinforcement plans for beams using the analysis results provided by ConCrete or Diamonds.



Features

- Extremely attractive and comfortable user interface with floating tool-bars, project navigation tree and interactive windows for definition of geometry, boundary conditions and loads.
- Automated creation of loads combinations according to EC1 and national standards.
- Static analysis of reinforced concrete beams, floor plates, ground beams and rafts.
- Evaluation of longitudinal and transverse reinforcement requirements – according to EC2 and national standards. Evaluation of minimal and optimal cross-sectional dimensions.
- Evaluation of cracked deformation based on required and/or actual reinforcement quantities, with allowance for creep effects.
- Evaluation of minimum requirements on longitudinal reinforcement in view of allowable crack width.
- Automatic update of all analysis results upon the change of any design parameter.
- Automated creation of design analysis report.
- User-definable reinforcement parameters: bar diameter, number of bars per layer, elimination priority, ...
- Automated translation of required reinforcement quantities into a practical reinforcement design.
- Evaluation of reinforcement bar length considering translation of moment diagram and anchorage length requirements.
- Continuous or discontinuous reinforcement bars at support points. Straight or curved reinforcement anchors. Continuous or discontinuous reinforcement anchors.
- Verification of cracked deformations and crack width based on actual reinforcement quantities.
- Extensive number of annotation options.
- Automated creation of cutting list from reinforcement plan.
- Export of reinforcement plan to CAD software for concrete design (through DXF or proprietary formats).



In figures

- **2000** customers use BuildSoft software in more than 50 different countries
- **25+** years of experience in structural design analysis and design codes
- **4000** BuildSoft licenses in use with customers
- **75%** of the customers have a maintenance or subscription contract
- **2200** student registrations every year for a free educational license

Our customers

- Engineering offices & consultants
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- Construction companies
- Public organisations
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ConCrete is a BuildSoft product
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