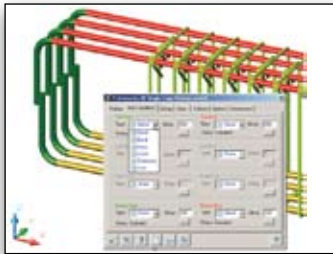


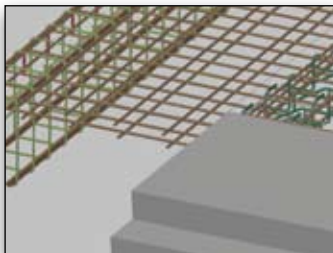


## BENTLEY® PROCONCRETE™

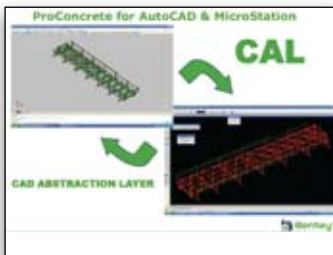
ADVANCED 3D CAD SOFTWARE FOR MODELING, DETAILING AND SCHEDULING FOR REINFORCED INSITU / PRECAST AND POST-TENSIONED CONCRETE STRUCTURES



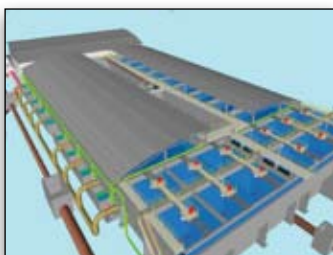
Bar end conditions based on local standards and codes



3D Visualization makes more sophisticated re-bar design easy



Interoperability between CAD platforms is made possible through the CAD abstraction layer



Perth Desalination Plant - integrated with multiple engineering disciplines within one model

ProConcrete – Simple and easy to use tools for advanced 3D modeling of reinforced concrete structures producing automated design and detail drawings and rebar schedules. Enabling engineers to reduce the documentation production time and assist them in eliminating errors and design flaws.

### Increased Productivity and Quality

ProConcrete allows engineers to model reinforced concrete easily with parametric tools for the creation of almost any concrete structure and provides real time 3D visualization. Modeling the structure becomes quick and easy, as well as producing automated drawing documentation of reinforced structures from any plane. Revisions to your documentation are automatically updated when modifying your project. A full bill of materials and reinforcement schedules can also easily be extracted, providing readily available valuable information for project costing and estimation. The reinforcing schedules and the bill of materials are all easy to extract from the 3D model, reducing the time to produce documentation by up to 50% when compared to current methods used. Our intuitive and integrated multi-material modeler is perfectly suited to layout complex structures, produce design drawings, detail pre-cast drawings and bar bending schedules with the click of a mouse. Users are also able to assemble their bar bending layouts and manage the bill of materials. ProConcrete not only enables engineers to reduce the documentation production time but also virtually eliminate errors and design flaws.

### Interoperability and Open Format Provides Flexibility

Using ProConcrete with our already successful product ProSteel enables engineers to design and document composite structures. ProSteel is an innovative 3D modeling environment for structural steel and metal work supporting your construction and planning tasks. The combination of these two products is also available under the ProStructures product suite.

Database driven and easy to edit tables using Microsoft Excel or Access. ProConcrete is standards based, all bar bending, laps, development length, values are based on regional codes. There are standard profiles provided but

user defined profiles may also be created and drawing styles can be driven by user templates.

A variety of structures can be easily created such as, commercial, residential, industrial, stadiums, civil works, retaining walls, culverts and bridges. ProConcrete is compatible with AutoCAD and soon on the Microstation based platform, with total integration and intelligence able to be ported between the two. ProConcrete has the ability to import and export from the AutoCAD environment to microstation and back through it's intelligent file format This allows for seamless collaboration with your business partners.

Using ProConcrete allows for integration within a single environment with other disciplines on your team. This can include architectural, steel, plant and process, HVAC and services.

*Whenever the model is updated, the drawings are able to be automatically updated.*

### Developed by Engineers with Expertise

From initial planning and design to assembly, ProConcrete is comprehensive software built by engineers experienced with concrete design. That expertise in building codes, construction techniques, materials and the design process is embodied in the program; careful consideration has been given to the needs of the engineer in the design of concrete structures and in the execution of a design project. For example we provide multiple cages in elements and multiple hinge zones for beams. Our many years of experience in the field of AutoCAD development and the close contact with our users has contributed to ProConcrete becoming an internationally recognized and important application for 3D concrete design and re-bar scheduling.

## SYSTEM REQUIREMENTS

### Processor:

Intel Pentium or AMD AthlonT

### Operating System:

Windows Vista, XP, and 2000

### RAM:

256MB minimum,  
512MB recommended

### Hard Disk:

900MB free disk space (includes the 400MB install footprint for a complete installation)

### Display:

Graphics Card supported by DirectX 9.0

## ABOUT BENTLEY

Bentley Systems, Incorporated is the global leader dedicated to providing comprehensive software solutions for sustaining infrastructure. Architects, engineers, constructors, and owner-operators are indispensable in improving our world and our quality of life; the company's mission is to improve the performance of their projects and of the assets they design, build, and operate. Bentley sustains the infrastructure professions by helping to leverage information technology, learning, best practices, and global collaboration – and by promoting careers devoted to this crucial work.

For more information, visit [www.bentley.com](http://www.bentley.com)

## BENTLEY OFFICES

### Corporate Headquarters

685 Stockton Drive  
Exton, PA 19341 USA  
1-800-BENTLEY (1-800-236-8539)  
Outside the US +1 610-458-5000

### Bentley Systems Europe B.V.

Wegalaan 2  
2132 JC Hoofddorp  
Netherlands  
+31 23 556 0560

### Bentley Asia

Unit 1402-06, Tower 1,  
China Central Place,  
No. 81 Jianguo Road,  
Beijing, 100025, China  
+86 108 518 5220



## BENTLEY PROCONCRETE AT-A-GLANCE

- Easy to learn
- Fast modifications by direct update in 3D/2D
- Stairs/beam/columns/ramps and folds
- Dialogue boxes with clear auxiliary dialogs
- Rollover mechanism
- International rebar libraries with preference series
- Rebar modification tools – template styles
- Special shapes with database connections
- Modification in 3D
- Extensive block management
- Creation of parts lists from the model
- Cut lists
- Output of part lists in many file formats such as PDF, RTF, HTML
- Drawings parts lists in 2D drawings
- Automatic generation of all 2D drawings for costing and production
- Intelligent dimensioning
- Single sheet output or multiple details per sheet
- Project drawing manager
- Programming interface (COM/VBA) for user defined applications

### Firm Type

- Structural engineering firms
- Multi-discipline E/A and A/E firms
- Government agencies

### Firm Size

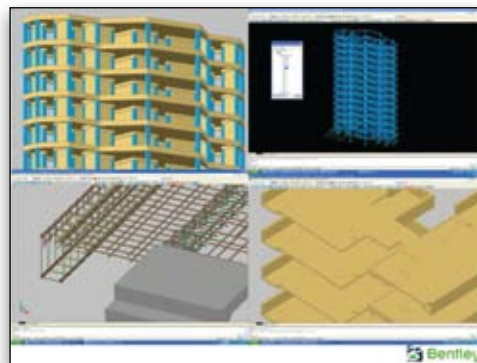
- Sole proprietor structural engineers
- Small and medium enterprises
- Large multinational firms

### Who Uses ProConcrete

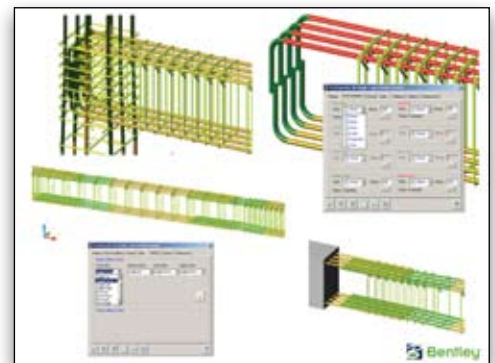
- Structural/civil engineers
- Plant engineers
- Fabricators
- Detailers
- Architects
- Educators

### Firms of All Types

- Structural/civil engineering firms
- Plant industry
- Construction companies
- Architects
- Universities
- Structural consultants
- Firms of all sizes
- Small to large size companies



*ProConcrete is suitable for use on any concrete structure, pre-cast or cast in place, structures for plant, civil or building with its advanced concrete and re-bar modeling tools.*



*ProConcrete is based on standards and templates, so we can re-use our data readily rather than re-create it.*