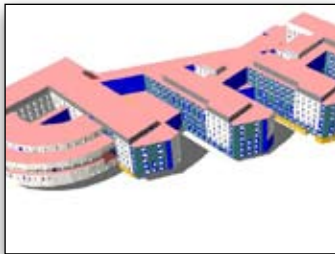
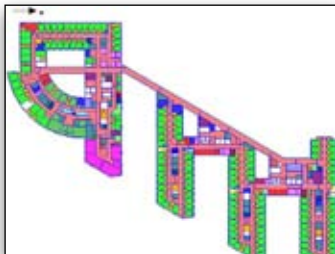


BENTLEY® Tas SIMULATOR V8i

INDUSTRY-LEADING BUILDING ENERGY MODELING AND SIMULATION



DSSR Pembury Hospital Perspective



DSSR Pembury Hospital Plan



FM Taylor Woodrow Whiston Hospital Perspective UK



FM Taylor Woodrow Whiston Hospital Plan UK

Bentley Tas Simulator V8i is capable of performing dynamic thermal simulation for the world's largest and most complex buildings. Bentley Tas Simulator V8i allows designers to accurately predict energy consumption, CO₂ emissions, operating costs and occupant comfort.

Bentley Tas Simulator V8i is targeted at building services engineers, architects, and other MEP professionals who want a tool that is robust and productive. Based on a twenty year track record of market success, Bentley Tas Simulator V8i is based on a proprietary simulation engine and is the high speed performer for complex buildings. Bentley Tas Simulator V8i also shines at evaluating a wide range of passive design features such as operable windows and other types of passive ventilation. Bentley Tas Simulator V8i is used extensively in the UK for compliance checking with Part L of the building code, as well as Section J in Australia, ASHRAE 90.1 and LEED in the US.

Bentley Tas Simulator V8i Gives Building Professionals Three Tools In One Package

- Design Tool – Room loads, plant sizing and natural ventilation. Plant and building performance are simulated hourly through the year to provide component sizing, energy use, running costs and CO₂ emissions.
- Compliance Tool – Approved for Part L2 and EPC calculations. ISO and CIBSE compliant building dynamic simulation and hourly component based plant simulation.
- FM Tool – Energy and cost savings for operational and investment options. Detailed and accurate energy use predictions for all plant components allows realistic energy and cost savings to be modeled for changes in operational management and plant and controls investment.

We Provide A Consultancy Service For Non-Domestic Epcs And Part L2 Compliance

EDSL are pleased to announce that on the 30th May 2008 they gained accreditation for Bentley Tas DSM software to calculate Asset ratings as part of preparing energy Performance Certificates (EPCs). Bentley Tas Simulator V8i is the first to successfully complete the stringent tests required by CLG for DSMs.

Bentley Tas Simulator V8i users are now able to generate EPCs for levels 3, 4 and 5 buildings.

Bentley Tas Simulator V8i utilizes the CIBSE LCC Energy Assessor Accreditation Scheme.

Based on a twenty year track record of market success, Bentley Tas Simulator V8i is based on a proprietary simulation engine and is the high speed performer for complex buildings.

EPC training courses are now available for existing and new Bentley Tas users. All training graduates are eligible for energy assessor status.

SYSTEM REQUIREMENTS

Processor:

Intel Pentium-based or AMD Athlon-based PC or workstation

Operating System:

Microsoft Windows XP, Windows 98/2000

Memory:

128 MB RAM

Disk Space:

200 MB minimum free disk space

Languages:

English

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

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BENTLEY TAS SIMULATOR V8i AT-A-GLANCE

Design Tool: Building Simulation Geometry Model

- A new generation 3D modeling front end allows for efficient geometry creation and equally important geometry modifications
- Utilize 2D DWG or DXF data and trace in the intelligent geometry
- Comprehensive and fast shading systems for creation and analysis
- Detailed shading visualization and video creation
- Automatic checking of 3D model integrity
- Automatic 'healing' of discrepancies in 3D model
- Windows 'type' facilities -Configurations may be created and efficiently placed on plan and window types may be quickly changed individually or globally

Design Tool: A Custom Built Simulation Engine That Combines Accuracy And Speed

- Early concept decisions are based on high quality analysis, rather than approximations

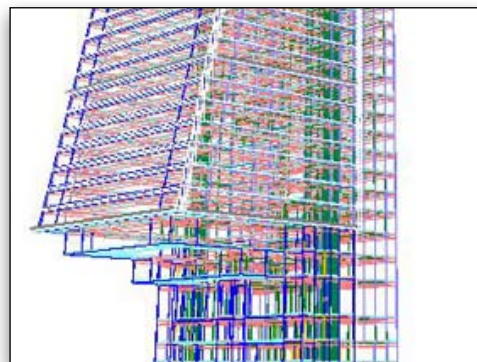
- Improves quality of design
- A quality dynamic building simulation tool capable of simulating a wide range of passive features
- Simulation procedures meet the highest ASHRAE standards
- A unique simultaneous solution of building thermal performance and natural ventilation air flow
- Loads may be sized using full dynamic simulation or steady state heat loss and RTS for cooling
- Efficient and robust algorithms cope well with larger projects
- Hourly time step component based plant simulation
- The building and plant models may be set up as sub-projects
- The software is ISO (European), CIBSE (UK,ANZ) and ASHRAE (US, ME, China) compliant
- Plant simulation can use traditionally calculated room loads or dynamic simulation based loads for equipment and air flow sizing

Compliance Checking Tool

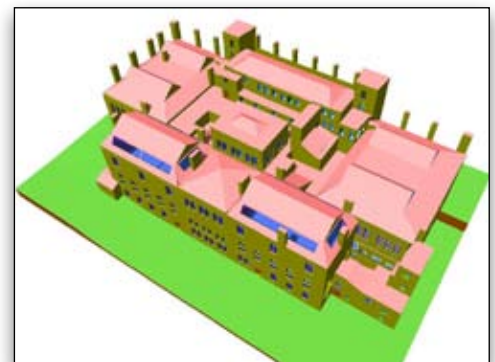
- Compliance tool for the UK regulations Part L2 and EP Certification
- Compliance checking available for ANZ
- Compliance checking for ASHRAE 90.1 for LEED
- One tool does all types of compliance checking

FM Tool

- Detailed and accurate energy use predictions for all plant components
- Allows realistic energy and cost savings to be modeled for changes in operational management and plant and controls investment
- Energy and cost savings for operational and investment options



Leadenhall 3D Wireline



Royal Academy of Arts Piccadilly London