Bentley®
Advancing Infrastructure

PRODUCT DATA SHEET

Image courtesy of Fraport AG

OpenBuildings® Speedikon®

BIM Modeling with Full LOD Control

OpenBuildings Speedikon is best-in-class building design and documentation software, empowering architects and design engineers to plan, analyze, and document buildings of varying sizes and complexity. It provides a high-quality, level-of-detail (LOD)-dependent representation suitable for diverse applications. The software features robust capabilities for seamless standardization and customization, ensuring flexibility in design processes. Additionally, users gain access to the latest integrated version of MicroStation®, providing the benefits of its advanced features.

DEVELOPED WITH YOUR NEEDS IN MIND

OpenBuildings Speedikon enhances design processes by enabling work in a floor plan view where z-coordinates are intelligently managed through reference planes. Right from the start, it integrates 2D and 3D views, allowing simultaneous observation and manipulation. OpenBuildings Speedikon also facilitates the rapid creation of intelligent, parametric models that are rich in content properties for various building components.

Advanced view filter technology allows users to visualize the results of their drawings immediately. With just a click or two, the quality of representation can be adjusted based on the required LOD for specific use cases.

The software features an integrated Project Manager, which simplifies the organization and management of projects. Its robust data format ensures compatibility, permitting the opening and editing of legacy data up to fifteen years old without the need for conversion.

POWERFUL AND POSITIONAL

OpenBuildings Speedikon easily supports the realization and management of extremely large projects. It fully supports large coordinates and project rotation, providing the flexibility needed to position buildings accurately.

DATA REPORTING

OpenBuildings Speedikon comes equipped with integrated area calculation and quantity take-off capabilities, allowing for the generation of required reports in Microsoft Excel or Word formats directly from model data. The software is optimized with a German dataset that adheres to Deutsches Institut für Normung (DIN) and Vergabe und Vertragsordnung für Bauleistungen construction contract (VOB) standards. Additionally, the built-in Project Editor facilitates easy checks and modifications of element attributes within projects., along with the ability to add unlimited custom attributes.

EFFICIENT COLLABORATION

OpenBuildings Speedikon features and supports a range of powerful interfaces and file formats, such as Industry Foundation Class 4 (IFC4), iModel, Steel Detailing Neutral File (SDNF), and from drawing files (DWG), among others. It seamlessly integrates models from mechanical and plumbing systems created in OpenBuildings Designer, TriCAD MS, or CARF, automatically generating penetrations in OpenBuildings Speedikon. Built-in clash detection enhances coordination with other disciplines and simplifies the process of verifying the building model.

Furthermore, OpenBuildings Speedikon is fully integrated into the connected data environment® (CDE), utilizing platforms such as ProjectWise® and iTwin® solutions provided by Bentley Infrastructure Cloud™. This integration ensures streamlined management and accessibility of project data across the infrastructure lifecycle.

CONFIGURABLE TO YOUR WORKFLOWS

OpenBuildings Speedikon can be customized to meet the specific needs of any customer, company, or individual user. Updates to customizations for the latest software release are both quick and simple, ensuring smooth transitions and up-to-date functionality.

SYSTEM REQUIREMENTS

MINIMUM: Intel® or AMD® processor 2.5 GHz or greater, Windows 10 (64-bit) or Windows 11 (64-bit), 16 GB RAM, 25 GB minimum free disk space, 1 GB video RAM or greater.

RECOMMENDED: 32 GB RAM

OpenBuildings Speedikon At-A-Glance

EASE OF USE

- Design in top view with z-height adjustment via reference planes
- Simultaneous 2D and 3D visualization
- Advanced view filter technology for multiple representations of a single model
- Implementation of company and project-specific standards
- Libraries and user interface can be customized by the user
- Compatibility with data up to 25 years old, while data up to 15 years old can be opened without converting
- Seamless integration of real-time online geographic information system (GIS) data into the design framework, removing the necessity for manual updates and file replacements
- English and German user interfaces
- Built-in Project Manager

BUILDING MODELING AND VISUALIZATION CAPABILITIES

- 3D BIM software equipped with advanced building components
- Comprehensive range of architectural elements, including powerful space functionality and multilayered structures, such as walls, slabs, floors, ceilings, and roofs
- Extensive selection of structural elements, including joist and plate girders, haunches, steel braces, plates, and ladders
- Complete control over LOD in plans and model views
- Capable of handling very large-scale projects
- Supports coordinates located a great distance from the origin and facilitates project rotation
- Contextual design integration with reality models and point clouds
- Supports unlimited custom attributes
- Fully integrated MicroStation capabilities
- Built-in clash detection features
- Simplified, realistic rendering and movie creation using Bentley LumenRT™ with the building model

VERSATILE REPORTING OPTIONS

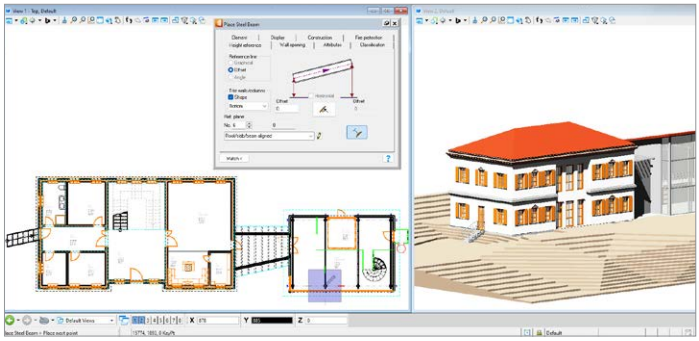
- Area calculation and quantity take-off reports compliant with DIN and VOB standards
- Streamlined attribute verification and modification with the integrated Project Editor
- Effortlessly handle data with bidirectional editing capability in Excel within the Project Editor

INTEGRATION WITH OTHER SOFTWARE

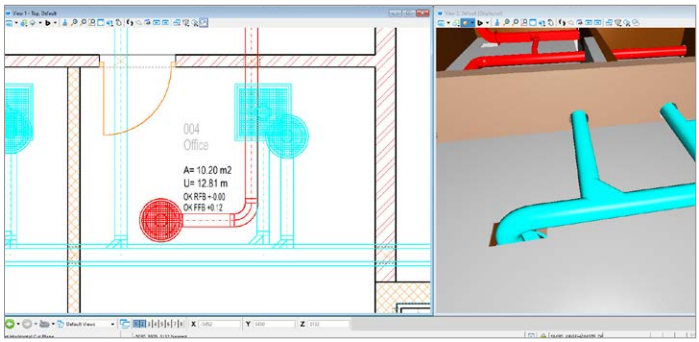
- Facilitate data exchange across standard formats including IFC 4, iModel, SDNF, and DWG
- Auto-penetrations in OpenBuildings Speedikon are generated from mechanical and plumbing systems created in OpenBuildings Designer, TRICAD MS, or CARF
- Collaboratively share project data utilizing iTwin Platform
- Efficiently manage large, multistakeholder projects with OpenBuildings Speedikon within a ProjectWise-managed environment

POWERFUL DRAWING GENERATION

- Generate of high-caliber drawings
- Output of German dataset plans aligned with DIN standards



Simultaneous 2D and 3D visualization



Auto-penetrations created from mechanical and plumbing systems

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1.800.BENTLEY (1.800.236.8539) | Outside the US +1.610.458.5000 | **GLOBAL OFFICE LISTINGS** bentley.com/contact