DDS-CAD Building

All DDS-CAD modules have a set of basic features called ‘DDS-CAD Building’. With this genuine Open BIM solution you use a complete system that is independent of third party tools such as AutoCAD, Revit, Bentley and other applications. DDS-CAD Building is equipped with a fully integrated and certified Open BIM interface and provides the ideal basis for an intelligent and multi-disciplinary data exchange with architects, structural engineers and other project stakeholders.

**Intelligent BIM/CAD core**

- Stand-alone intelligent BIM/CAD core that runs on Windows 10 64-bits
- Network and server compatible as well as multi-user enabled on a project level
- Multi-discipline project management
- Multi-window technology, any number of models and views (2D, 3D, cross-section etc.)
- Import and export of all popular formats such as IFC, DXF, DWG, 3D DWG, PDF, 3DS, JPG and PNG
- Integrated BCF manager supporting file and cloudbased intelligent issue coordination and communication
- Export of IFC and DWG models with extra classification systems (e.g. Omniclass)
- Fully integrated DWG/DXF editor with intelligent object mapper
- Scale independent design and plot functions in 2D and 3D
- Intelligent and associative object dimensioning
- Intelligent generic and parametric 2D and 3D product databases
- Automatic realistic height presentation of overlapping objects in top view (OpenGL)
- Freely definable cross-sections, part models and elevations in 2D and 3D
- Flexible zone function for freely defining individual functional units
- Intelligent control and navigation with 3D mouse from 3Dconnexion
- Automatic multi-discipline management of layers and pens
- Plot lay-outs with automatic update, independent layer structure and flexible scale selection
- Automatic plot legends and title fields
- Automatic sorting of parts lists according to building, storey and room
## DDS-CAD Building

### Intelligent building model

- Flexible and easy planning of floor plans and building models in 2D and 3D
- Extensive selection of intelligent and flexible 2D and 3D components
- Automatic room recognition from DWG/DXF files, including windows, doors and room labels
- Intelligent bi-directional Open BIM data exchange via IFC (ISO 16739)
- Different presentation options for rendered 3D models
- Comprehensive configurable clash detection engine for the MEP, structural and architectural disciplines
- Easy editable building model in case of architectural changes
- Intelligent design of suspended ceilings, roof windows, roofs and dormers
- Intelligent and dynamic generation of opening elements with automatic labeling
- Model-based coordination for provision for voids based on IFC
- Automatic and configurable room labels
- Automatic calculation of room surfaces and volumes, including roofs and dormers
- Easy merging of complete building model including all disciplines for presentation and controlling
- IFC and gbXML export for energy performance and other building simulations

### Add-on modules for DDS-CAD Building

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