

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

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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

DDS-FR	Escape and rescue plans
DDS-UHL	U-value and heat load calculation according to EN 12831
DDS-WRL	Small retail and residential controlled ventilation systems
DDS-AR	Advanced rendering, sun animation and video
DDS-CON	Opening, viewing and controlling of DDS-CAD projects
DDS-ND	Additional charge for network licensing (calculated over total license price)
