

DDS-CAD Building

All DDS-CAD modules have a set of basic features that is also available as a separate stand-alone program “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 versions Vista, 7 and 8

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, TIFF, BMP and PNG

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 and parametric 2D and 3D product databases

Automatic realistic height presentation and plot 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

Automatically updated print and plot wizard with free 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 (buildingSMART)
Flexible presentation of rendered 3D model
Automated model quality checks, cross-discipline collision detection and real-time clash prevention
Easy editable building model e.g. in case of architectural changes
Intelligent design of suspended ceilings, roof windows, roofs and dormers
Flexible design of PV fields on roofs, facades and ground surfaces
Block out, recess and wall opening planning with automatic discipline specific labeling
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
Efficient project management, exchange and coordination with BIM collaboration format (BCF)
IFC and gbXML output for energy performance, cooling load and other building simulations

Add-on modules for DDS-CAD Building

DDS-FR	Escape and rescue plans
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)

DDS-CAD Sanitary & Heating

Discipline specific features

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Integrated design of plumbing, heating, cooling, gas and sprinkler systems	●	●
Intelligent pipe network design with automatic object connection	●	●
Flexible representations of the pipe network: single line, double line with insulation, flood fill and 3D	●	●
Extensive and flexible design of systems e.g. for complete technical rooms	●	●
Intelligent manifold construction wizard for heating and drinking water systems	●	●
Flexible creation of line and system diagrams for heating and plumbing systems	●	●
Associative and freely configurable labeling of objects and pipe segments	●	●
Automated model quality checks, cross-discipline collision detection and real-time clash prevention	●	●
Design of heat pump systems	●	●

Integrated calculations

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U-value and heat load calculation according to EN 12831	●	●
Automatic recognition of positions for transmission related components, within and across storeys	●	●
Intelligent radiator design and automatic room placement	●	●
Flexible planning and calculation of underfloor heating system fields according to EN 1264	●	●
Pressure loss calculation and automatic dimensioning for heating and cooling systems	●	●
Calculation of hydraulic valve adjustments and valve settings	●	●
Calculation of drinking water systems, including circulation pipes and temperature drop		●
Fully automatic updating of pipe systems with associative labeling of calculations results		●
Calculate centralized and decentralized hot water systems, as well as a combination with multiple boilers		●

Add-on module for DDS-CAD Sanitary & Heating

SH-RBS	Pipe network calculation for waste water systems according to EN 12056
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