

# Quick guide - file formats for CAD drawings

File type	Software	Type	Compatibility	Usage	Pros	Cons
<b>DWG</b>	AutoCAD	2D, 3D	High	Technical drawings	High accuracy; Industry standard for CAD data	Not suited to complex 3D models
<b>DXF</b>	AutoCAD	2D, 3D	High	Share geometric designs	Most universal 2D file format	Not all complex object types are supported
<b>DWS</b>	AutoCAD	2D, 3D	Low	Enforce drawing standards	Maintain design quality standards	Can only be used with AutoCAD
<b>DWT</b>	AutoCAD	2D, 3D	Low	CAD document templates	Streamlines drawing process	Can only be used with AutoCAD
<b>RVT</b>	Revit	3D, BIM	Low	BIM for architecture, engineering, construction	Store complex and specialised BIM data	Convert files to use with other BIM software or share with clients
<b>RTE</b>	Revit	3D, BIM	Low	Template for Revit project files	Streamline BIM design process	Can only be used in Revit
<b>RFA / RFT</b>	Revit	3D, BIM	Low	Store Revit family data	Pre-set parameters and constraints for object families	Can only be used in Revit
<b>NWD</b>	Navisworks	3D, BIM	Medium	Visualising 3D design, model coordination, clash detection	Share outputs with stakeholders, without sharing source files	Provides a snapshot - not updated if source data changes
<b>NWF</b>	Navisworks	3D, BIM	Low	Ongoing engineering & structural co-ordination	Collates CAD and BIM data from multiple sources	Can only be used in Navisworks
<b>STEP / STP</b>	Non-proprietary	3D	High	Modelling 3D solids	High interoperability between CAD/CAM packages	Cannot include parametric data, constraints or sketches (not suitable for BIM)
<b>ICF</b>	Non-proprietary	3D, BIM	High	Model checking, clash detection and coordination in OpenBIM	High interoperability for BIM data	May be less accurate than proprietary formats