

The difference between BIM and Revit

In the construction industry, there is still a major confusion between Building Information Modeling and Revit, where BIM is considered to be a piece of software such as Revit. However; the fact is that Revit is one of the BIM tools available and is widely used for the creation of the 3D digital BIM model. Autodesk Revit is not BIM. BIM is a process, a methodology and Revit is a tool to leverage that process.

BIM is a process, a methodology and Revit is a single application built for Building Information Modeling with features for the three main disciplines of the AEC industry, (Architectural, MEP- Mechanical, Electrical and Plumbing, Structural engineering).

BIM is more than just Revit, and this needs to be continually communicated. Revit's digital model creates a powerful database consisting of information at all stages of a construction project. A digital building is created using 3D intelligent objects with stored information that can be used to successfully time and cost management for the whole lifecycle of a project. Revit uses model-building components to analyze and simulate systems and structures. Revit collaboration tools allow all team members to work in shared models and import, export and link data with commonly used formats. The shared models can be accessed by multiple project contributors at every phase and this results in better coordination and reduced errors and rework. Revit 3D visualization tools provide effective communication between project owners and team members by using models to create high-impact 3D visuals.

Revit is a software that supports BIM information management. Even Autodesk in their site mentions that Revit is BIM software, not just BIM. However, BIM Revit models allow you to:

- Work with parametric objects - Each component has parametric qualities.
- Quick changes, no repetition- Whenever a change is made to the model the software automatically updates every related component, affecting the whole building model, documentation, details, etc.
- Construction documentation- High-quality documentation - automatically produced from the 3D model.
- Quantities and Cost estimation - Automatic generation from inserted data.
- Coordination - Shared models enable teams to collaborate effectively and reduce conflicts.
- 3D Visualization - This allows better communication with the client and your team.
- Interoperability - Revit imports - exports - links your data with common formats such as IFC.