

Introduction

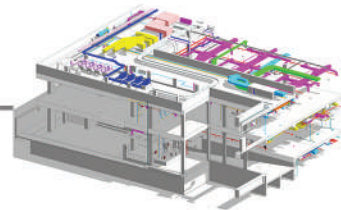
Bimoffis has successfully delivered BIM Services for a 7000 sq. Ft. industrial warehouse project located in Germany. Our client requirement was to produce a well-coordinated BIM model including the coordination, clash detection and BIM modelling for the architectural, structural, Mechanical and Electrical disciplines.

Project Facts at a Glance

- Project Name: Reinsehen Batiment
- Project Location: Germany
- Client Company: Industrial and Municipal Supply
- Project Type: Industrial
- Trades Covered: Architecture, Mechanical & Electrical
- Materials Involved: Galvanised steel, EMT, MS, Copper, Aluminium tubing, Insulation, Brass fitting, PVC
- Team Size of Bimoffis Pvt Ltd – 2 BIM Engineers
- Unique Feature of the Project: Development of 3D Revit Model Creation for Coordination and Shop Drawings
- Levels of Building: 1
- Software Applications Used for the Project: Revit, AutoCAD

Scope of Project

- 3D Revit Model Creation for Coordination and Shop Drawings
- Constructability Review (Model Update to reflect changes resulting from Design Changes, RFI Generation & Update)
- Clash Detection & Mitigation
- Coordination of Piping & Process Equipment.
- Duct work, Ventilation, refrigeration & Electrical Plan & section Drawing Preparation.



Project Challenges

- The Architectural service to be modeled in LOD 200 coordinating with MEP services in LOD 400.
- Ensuring the seamless integration of Mechanical, Electrical, and Plumbing (MEP) systems in a required careful consideration of space constraints and efficient routing.
- Meeting project milestones while adhering to a strict timeline was crucial. The need for timely completion added complexity to an already intricate project.

Project Solutions

- To tackle the challenge of coordinating architectural modeling at LOD 200 with MEP services at LOD 400, we've implemented a streamlined solution. Leveraging Navisworks for clash detection and coordination, we ensure seamless alignment between architectural and MEP elements. Our approach emphasizes clear communication, phased development, and meticulous detailing, resulting in comprehensive models that exceed industry standards and client expectations.
- Our team utilized advanced Building Information Modeling (BIM) software to create a detailed 3D model of the project. This approach allowed us to visualize the MEP systems in relation to other structures, identify potential clashes, and adjust the design accordingly. By conducting thorough clash detection and optimizing the routing of systems, we ensured efficient use of space while maintaining the integrity and functionality of each system.
- Regular progress meetings, and clear communication among all stakeholders. Our team established milestones and monitored progress against these benchmarks, allowing us to quickly address any delays or issues. By maintaining a proactive approach and staying flexible in our problem-solving, we met the project's milestones and delivered on time without compromising quality.

