

IMAGINiT Helps VBC Increase Efficiency & Improve Cloud Collaboration with Autodesk BIM 360

The Organization

Volumetric Building Companies (VBC) is one of the only vertically-integrated volumetric module companies providing design, manufacturing, and construction services. Through three divisions, VBC | Studio, VBC | Manufacturing, and VBC | Construction, VBC provides design, manufacturing, consultation, construction management, component sales, and logistics.



The Challenge

Alberto Leon, Design Technology Manager for VBC, said, "Part of my job is to identify, develop, and oversee the implementation of technologies that help our teams develop innovative solutions. Looking for ways to increase efficiency, I started researching how we could use the Cloud to enable the entire VBC team as well as subcontractors, vendors, material providers, and others to collaborate better on projects."

"We have used Autodesk products for many years, both desktop applications and the BIM 360 cloud-based platform," said Alberto. "With IMAGINiT's expert consulting, we found clear solutions to our problems, reaching a higher performance in our usage of the Autodesk tools."

The Solution

VBC was introduced to IMAGINiT through an outreach call made by an IMAGINiT account executive to Vahe Markosian, the Director of Architectural Operations at VBC, asking about their Autodesk software needs. Impressed with the account executive's interest in the company and knowledge of Autodesk products, Vahe brought Alberto into the conversation and requested additional calls with IMAGINiT to discuss Cloud technologies.

"We had a strong understanding of some of the capabilities of BIM 360," said Alberto. "IMAGINiT clearly highlighted some of the platform limitations, so the decision makers at VBC could rest assured we were using the platform to the full extent of its capabilities."

"We decided to move forward with IMAGINiT and BIM 360 for document management, design collaboration, and model coordination.

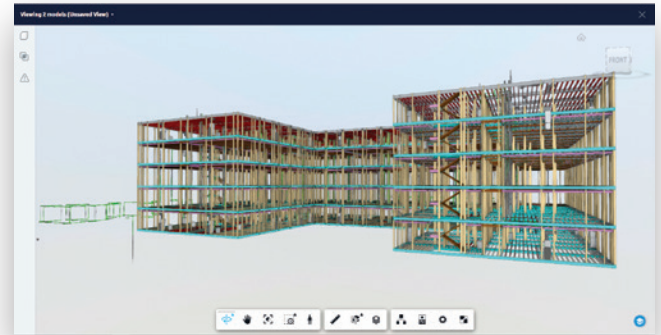
In addition to the software, VBC engaged IMAGINiT for:

- Training a team of designers, engineers, and project professionals from all three divisions to improve BIM 360 Design collaboration workflows and for implementation and training on BIM 360 Build and BIM 360 Cost
- Design assistance support, which provides access to a dedicated team of technical support professionals with a guaranteed two-to-four business-hour response time for one year

The Results

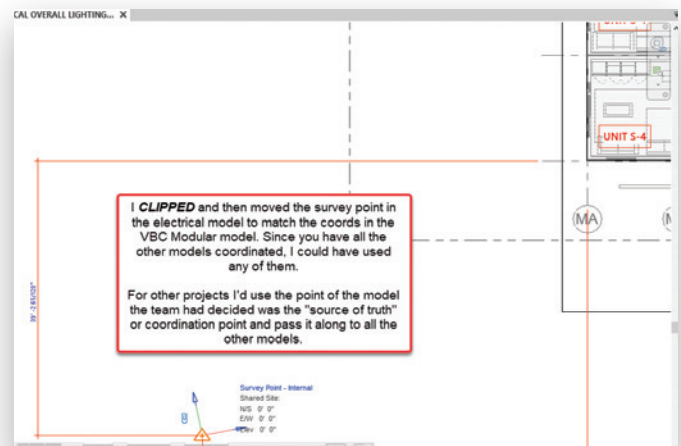
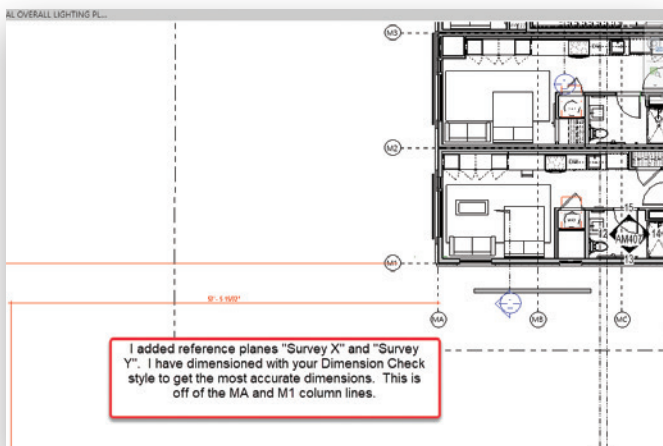
Alberto said, "In addition to the benefits that come from using BIM 360 products, we have access to an incredibly knowledgeable support team that helps us address issues and comes up with creative solutions. Below is an example."

- Problem** – In Revit, a project's mechanical, plumbing, and structural models can easily be combined into one model where designers and engineers can verify that elements from one don't take up the same space as elements from another. Within BIM 360, the models did not align properly, making the clash detection impossible. To rectify the misalignment of the models, each source file would have had to be downloaded, saved, fixed offline, uploaded back to the Cloud, relinked, and tested. This process would have taken several hours for each project, and it would have opened the door to errors as files were moved offline and back online.
- IMAGINiT Solution** – Within a few hours of receiving the support request from Alberto, the IMAGINiT solutions consultant, Jason Munteer, developed a solution that did not require the downloading of files. By matching up the survey points in each model, realigning the rotation vector, and adding reference planes to verify locations, the three models aligned perfectly. The process only took a few minutes and involved only one model, not the entire building model structure.



"IMAGINiT's ability to solve this issue quickly and communicate the solution clearly shows how knowledgeable they are and how committed they are to customer satisfaction," said Alberto. "Without this workaround, we would have had to stop each project for several hours to fix them one by one. That would have been unacceptable, and we most likely would have reverted back to Revit for clash detection, which is limited."

Contact us to learn how our comprehensive solutions can help enhance your team's efficiency.



Solutions Beyond Software

IMAGINiT Technologies, a division of Rand Worldwide, helps architects and engineers become more proficient in the use of 3D technologies to design, develop and manage complex engineering projects faster and more cost-effectively.