

COMPANY

**Hoa Binh Construction Group
Joint Stock Company**

LOCATION

Vietnam

SOFTWARE

**Autodesk® Revit®
Autodesk® Naviswork®
Autodesk® BIM 360® Docs**

Hoa Binh integrates BIM and improves competitive outlook

Collaboration and communication are accelerated and improved with Autodesk solutions

“Autodesk solutions provide higher accuracy especially for the calculation of quantity and recognition of conflicts.”

– **Mr. Duong Dinh Thanh**
Deputy CEO/PMO Director
Hoa Binh Group



Image courtesy of Hoa Binh Construction Group

Introduction

Hoa Binh Construction Group is one of the most-trusted large-scale companies in Vietnam’s construction industry.

Founded in 1987, Hoa Binh has built more than 400 unique construction works, ranging from civil, industrial to infrastructure projects. Some of its quintessential projects include: Deutsches Haus, Saigon Centre, The Ascent - Thao Dien Condominiums.

Further afield, Hoa Binh has been participating in projects in Malaysia, Myanmar and Kuwait, and is now exploring markets in Canada and Australia.

To manage its multiple projects spread across geographical locations, Hoa Binh started using Autodesk solutions in 2011.

Today, it has a BIM team of over 60 members, who leverage on a suite of Autodesk technologies to accurately capture design intent and improve project outcomes.

“In our daily operations, we rely primarily on the Autodesk Revit and BIM 360” said Xanh Vo, BIM Manager of Hoa Binh Group.

“It has many tools to support different BIM users.”

The challenge

In 2017, Hoa Binh Construction was appointed as the general contractor of the Mizuki Park project. This super-scale design and build project in Binh Chanh District of Ho Chi Minh City covers over 27 hectares in area and is composed of three main segments – high-rise apartments, townhouses and luxury villas.

At the outset of the project, Hoa Binh recognised that a common platform was needed and it chose Autodesk for the sharing of information amongst project stakeholders.

“It is easy to share and transfer information in Autodesk,” explained Xanh Vo. “With Autodesk as our platform, we can take full advantage of collaborations with our stakeholders.”

The Hoa Binh team, however, faced challenges initially in getting some of its stakeholders to use tools like BIM 360.

Not only were there limitations in their technology capabilities, these stakeholders felt that markups of drawings done the traditional way, using pen on printed-out drawings, was more convenient.

Revit and Navisworks endow Hoa Binh with tools to accelerate collaboration with stakeholders to deliver all project targets consistently.

The solution

To get all stakeholders onboard, Hoa Binh went the extra mile to convince them of the benefits of the Autodesk solutions.

The team also arranged for its staff to demonstrate the attractive functions of BIM 360 and train stakeholders in using it.

The Hoa Binh team further leveraged on a suite of Autodesk software at every stage of the project and drew on the distinctive strength of the respective software to improve project outcomes—

- + Modeling: Revit
- + Combination: Naviswork
- + Timeliner 4D: Naviswork
- + CDE: BIM 360

“We set up BIM models at the LOD standard to work with the consultants,” said Cong Tang, Mizuki Site Manager of Hoa Binh Group.

“For construction processing, we connected the supervisory consultants and the site board in BIM, and set up a common data environment so stakeholders can share information.”

Improved accuracy with Autodesk Revit and Navisworks

With Autodesk solutions applied from design development to build, the project team could minimise conflicts and nonconformances at every stage effectively with the Revit and Navisworks software.

As a result, construction drawings were issued accurately in a synchronised manner.

Along with this, the use of BIM for shop drawings brought down the amount of material wastage to 1.22% (estimation on drawings). This was lower than the project target of below 2% and resulted in a total saving of 44,301 kg of rebar for superstructure

Faster collaboration

In addition, communication and exchange of information amongst stakeholders became more efficient at every stage.

A clear sign of this was that the amount of RFI (Request for Information) decreased significantly at the construction stage. The content of most RFI became focused on a change in material due to scarcity of material or to conform with local market conditions.

Furthermore, the use of BIM 360 to manage RFI expedited the resolution process, such that all issues with involved parties could be promptly solved within 1 hour.

The result

With the Mizuki Park project achieving its milestones consistently, Xanh Vo said,

“Autodesk software has brought obvious value to my team and me, it has impacted on our professional approach, and facilitated us in improving and integrating new techniques into our workflow”.

Agreeing, Duong Dinh Thanh added, “We have become a big name not only for our construction but a big name as a company that can apply BIM and be able to integrate it into our systems for our construction.”

“We do think that in the future the visual management should be more realistic. And we can use this as a special advantage to improve our competition in the market.”

– **Mr. Duong Dinh Thanh**
Deputy CEO/PMO Director
Hoa Binh Group

“Autodesk makes construction drawings easier. Its benefit shows up clearly on complicated issues in complex buildings and unusually shaped elements.”

“By applying Autodesk fluently from design to build, it makes us confident in collaborating with partners around the world.”

– **Vo Xanh**
BIM Manager
Hoa Binh Construction Group



Image courtesy of Hoa Binh Construction Group.