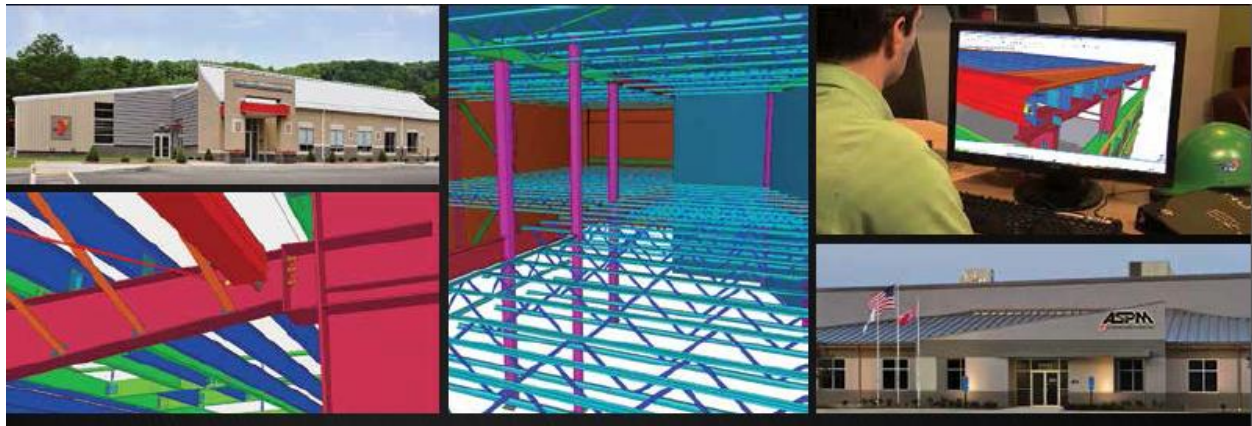


BIM WITH TEKLA

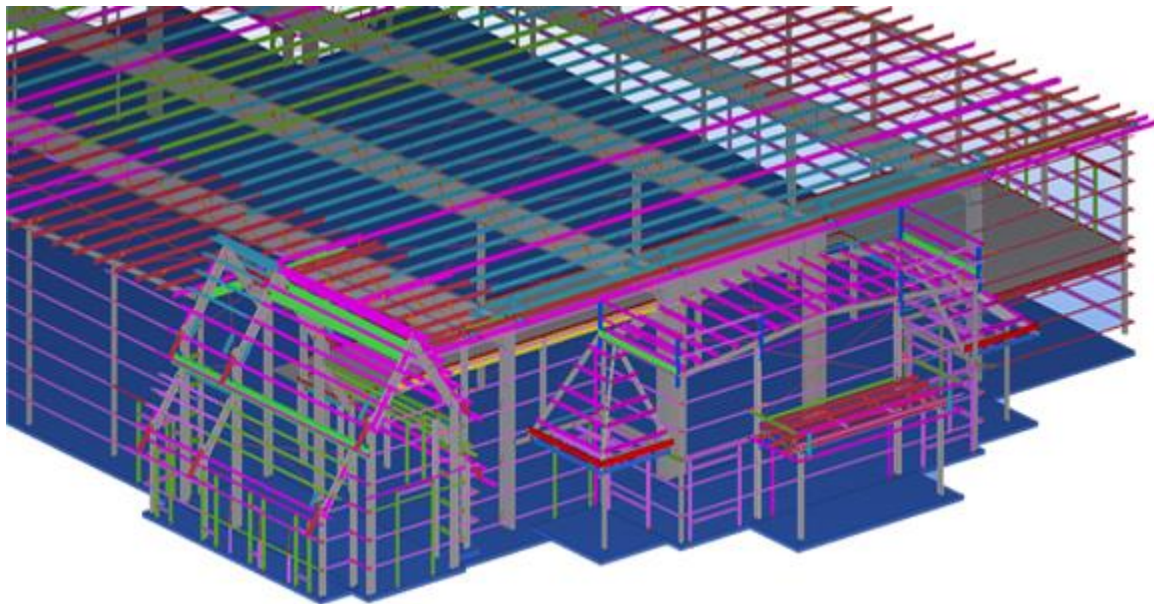
3D DIGITAL BUILDING INFORMATION MODELING

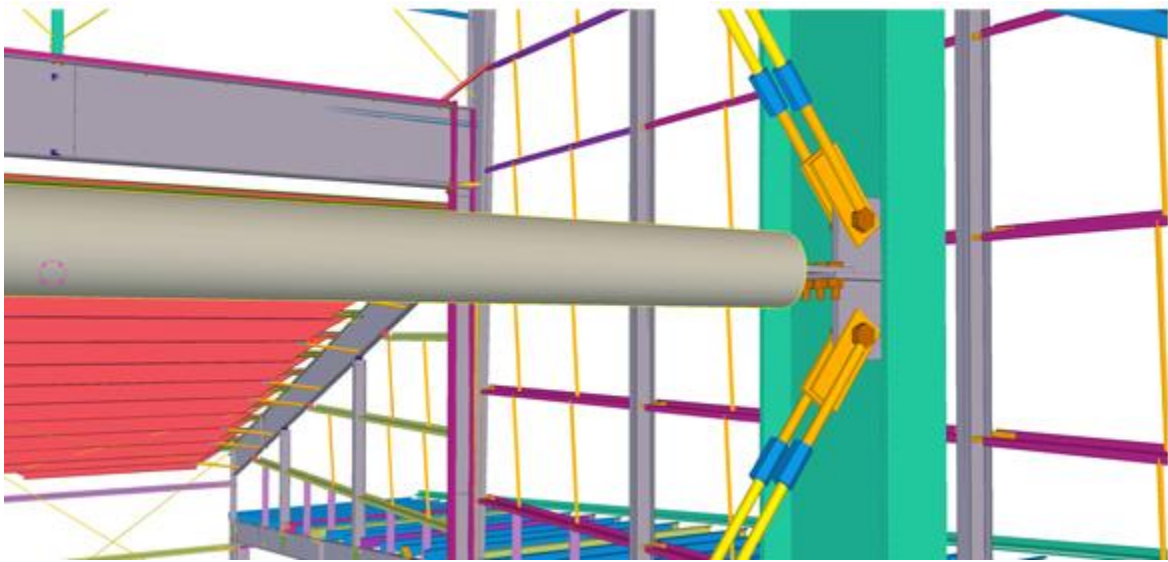
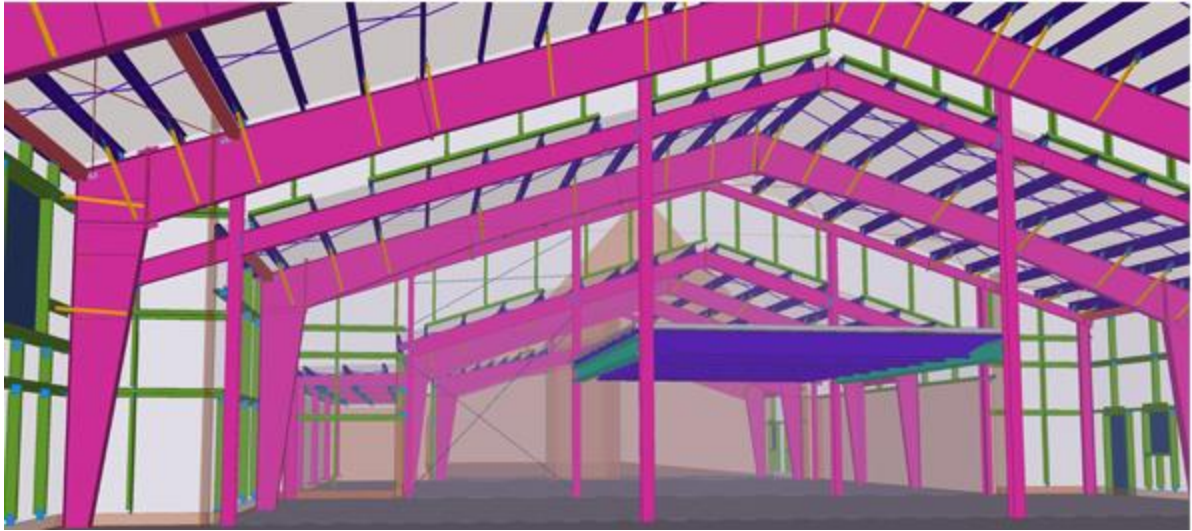
www.FAST-TRACKBUILDINGS.com proudly partners with Tekla, a leading BIM software solutions provider. Tekla software provides an accurate, detailed, intelligent and data-rich environment and can be utilized and shared by all building and construction disciplines.



<https://www.youtube.com/watch?v=-vwzuCL8p6s&t=>

https://www.youtube.com/watch?v=xe9QC_BgNPY





WHAT IS BIM?

- 3D, real-time, **dynamic building modeling** software
- Stores building data in a **digital database** throughout a project's life cycle
- Allows for **coordination among trades**



BIM seamlessly bridges gaps in communication between Builders, contractors, architects, engineers and owners.

It is the leading edge 3D technology that generates and manages a digital representation of the physical function and characteristics of your metal building.

The information resulting from your BIM model becomes a shared resource to support decision making and planning from the conceptual stage through the design and construction of your project, and continues through your building's operational life.

HOW DOES BIM WORK?

- Concept
- Design
- BIM model
- Complete embedded database



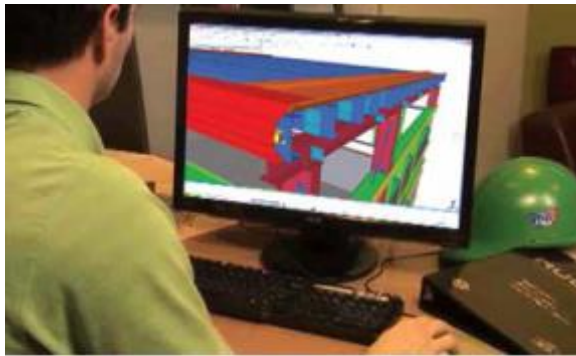
BIM's predecessor was AutoCad, which offered 2D images where every set of drawings, reports and plans were separate.

The BIM is a 3-dimensional tool with an embedded database that serves as the basis for all decisions from the earliest design concept through your building's entire life cycle. BIM encompasses geometry, spatial relationships, geographic information, quantities and properties of building components to construct an actual model of your project.

Once your building model is created, all fabrication reports, bills of material, erection drawings and any other documents necessary for your building are produced from that single model.

BENEFITS OF BIM

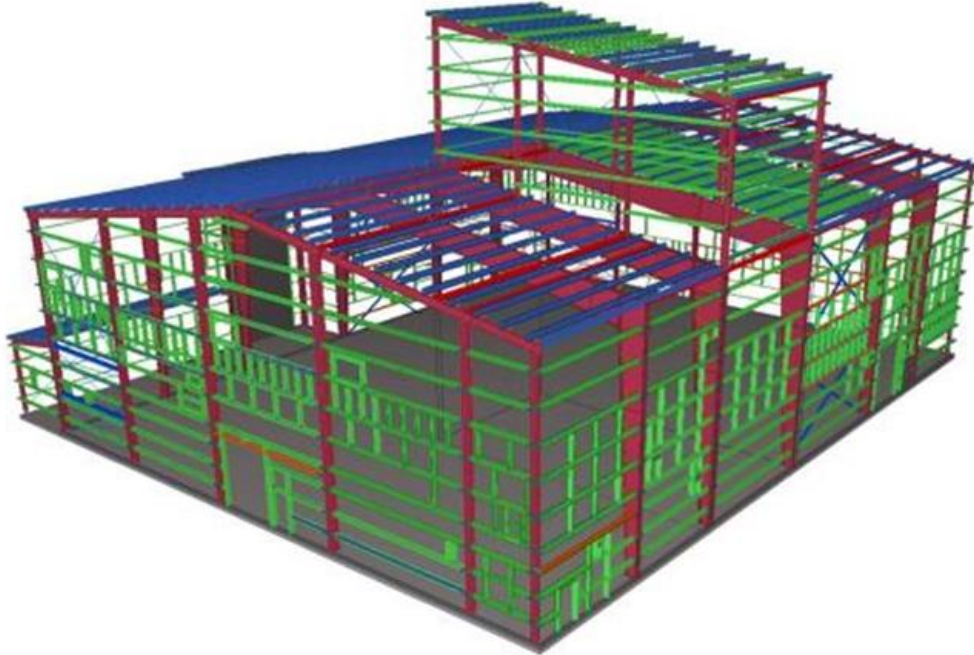
- **Easier coordination** of various software and project personnel
- Serves as a **resource for erectors**
- Produces a **working model** usable for fabrication
- Leads to **increased productivity**
- **Enhances quality control, including clash detection**
- **Can significantly reduce change order costs**
- **Enables improved communication across project team members**



BIM seamlessly bridges gaps in communication between Builders, contractors, architects, engineers and owners.

ENHANCED VISUALIZATION

- Design changes can be incorporated and viewed
- Full-scale 3D views
- Zooming capabilities
- Erection issues easily identified



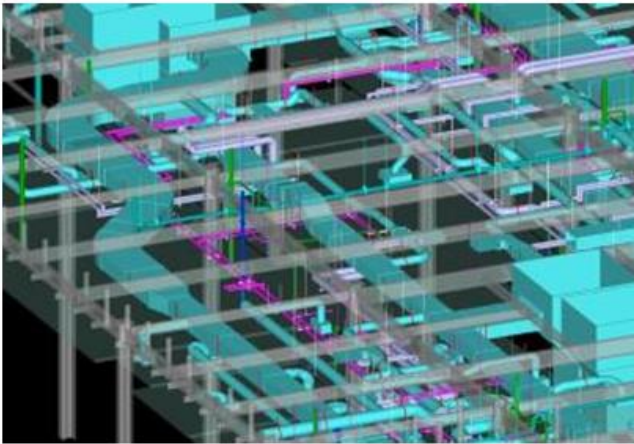
Essentially, your building is fully erected onscreen before any steel is fabricated. This means issues are easier to identify and desired design changes can be incorporated and viewed in a full scale 3D model before a single piece of steel is cut.

Enhanced Visualization -

BIM technology provides our customers with a modeling system that can display a replica of their building. This virtual model allows us to create your project digitally before building it in reality - reducing conflicts, saving time, as well as money.

A HOLISTIC TEAM APPROACH

- Coordination amongst multiple trades
- 3D Views of all systems including:
 - Structural
 - Electrical
 - HVAC
 - Plumbing
 - Concrete
 - Fire Protection



APPROVAL PROCESS



- **Approval process is easier and faster** with BIM
- Building can be **viewed fully erected** with all plans from the involved trades
- No longer need to translate between multiple drawings and documents

Approval meetings and acquiring permits can certainly be a long and sometimes difficult process.

Now, with 3-dimensional drawings and plans, the approval process is far easier because it is possible to view the building as fully erected, with all plans from the involved trades included. There is no longer a need to translate between multiple drawings and documents because all information is generated through the single building model.

Some areas of the country already require 3D modeling for certain types of projects.