

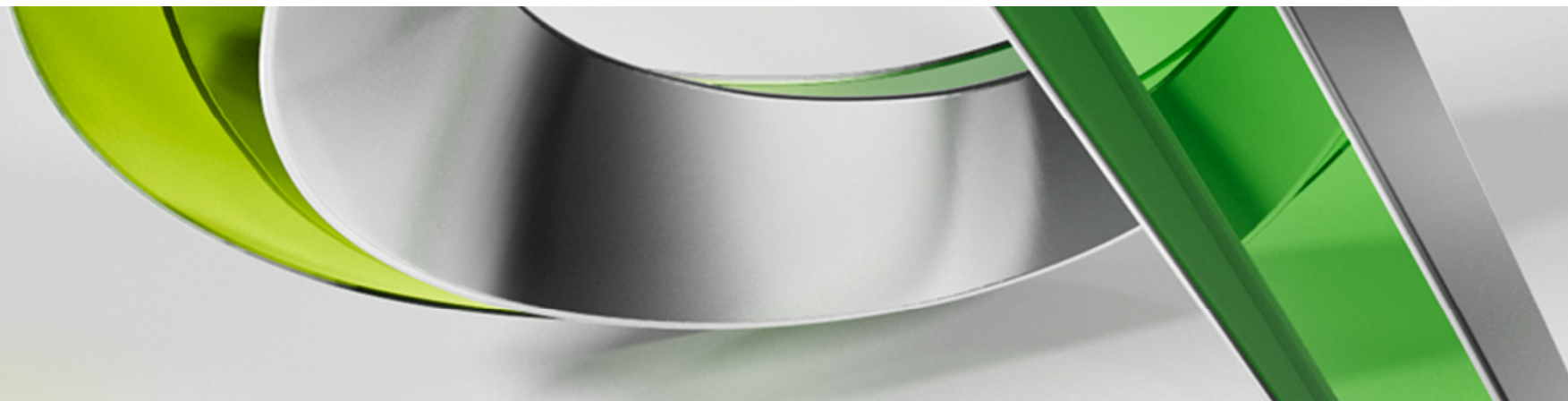


Advance Steel for Building Information Modeling (BIM): *Seamless Workflow from Design to Fabrication*

Deepak Maini

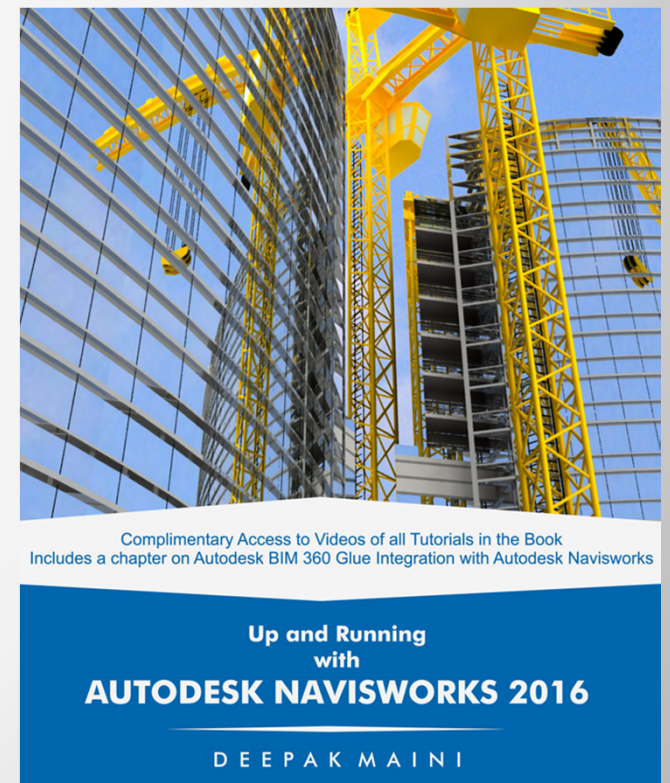
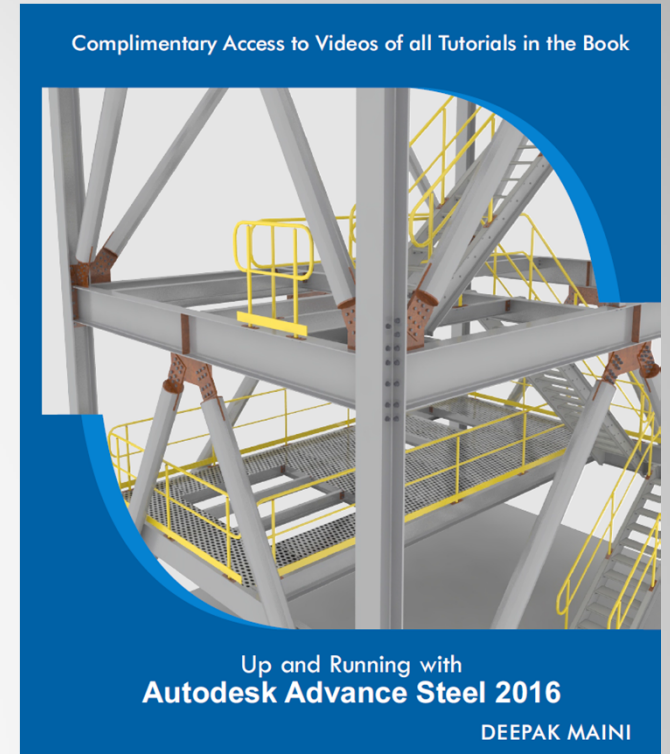
Product Manager – BIM/MFG Solutions

Cadgroup Australia



My Introduction

- Qualified Mechanical Engineer
- More than 17 Years of Experience on various CAD Platforms
- Guest Lecturer at the University of New South Wales (UNSW) and University of Technology Sydney (UTS)
- Regular Speaker at Autodesk University in Las Vegas
- Author of Up and Running with Autodesk Navisworks series of books
- Author of Up and Running with Autodesk Advance Steel 2016 book (to be released in February 2016)



Give Away 2 Copies of the Advance Steel Book



My Aim: Lets Keep it Simple and Have Fun as we Learn

- Units in **Millimetres**
- Class is Being Recorded. You and your colleagues will be able to view it around January as “Class on Demand” from AU Website
- Happy to Receive Emails from Attendees Anytime about Any Technical Question
- Mobile Phones on Silent Mode Please. Thanks

Class summary

To maintain a competitive advantage, more and more structural engineers are trying to find a way to capitalize on their Building Information Modeling (BIM) data for steel detailing and fabrication. This class will focus on showing how Advance Steel software is proving to be the missing link that enables structural engineers to capitalize on their Revit Structure models for steel detailing and fabrication.

Key learning objectives

At the end of this class, you will be able to:

- Export Revit Structure model and import into Advance Steel
- Create automated steel connections between the members imported from Revit
- Generate automated fabrication drawings and NC files
- Use Sync to review and import any Revit changes into Advance Steel or validate an Advance Steel model in Revit

Current Workflow for Steel Design, Detailing, and Installation

Design

Revit Structure

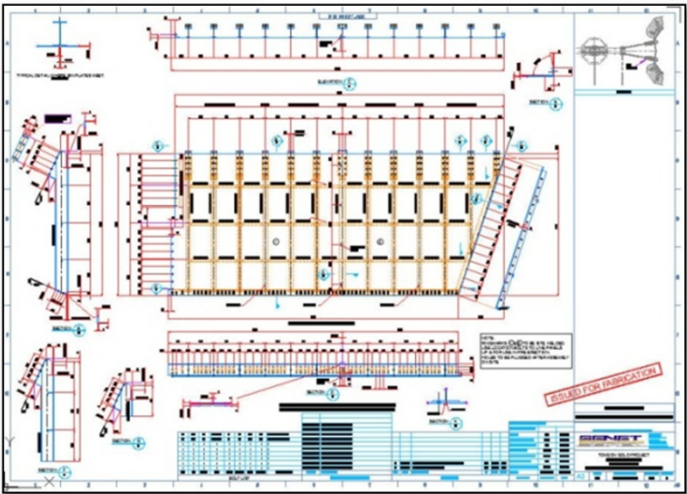
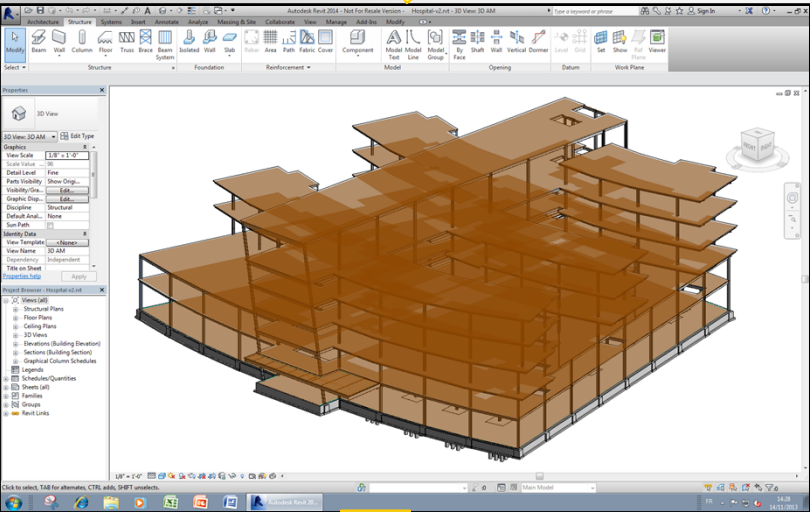
Detailing and Fabrication

Tekla / Pro Steel

Construction

Navisworks / Glue / Point Layout
for Total Station Export

Data Loss/Hard to Compare



IFC Export
No Intelligent Sync

CIS/2 / IFC Export
No Intelligent Sync

So what's the Solution???



The Solution is...

- A single unified model from design to documentation
- Project complexity will reduce
- Interoperability will avoid errors and redundancies
- Result in improved productivity
- Better project coordination

Preferred Workflow for Steel Design, Detailing and Installation

Design

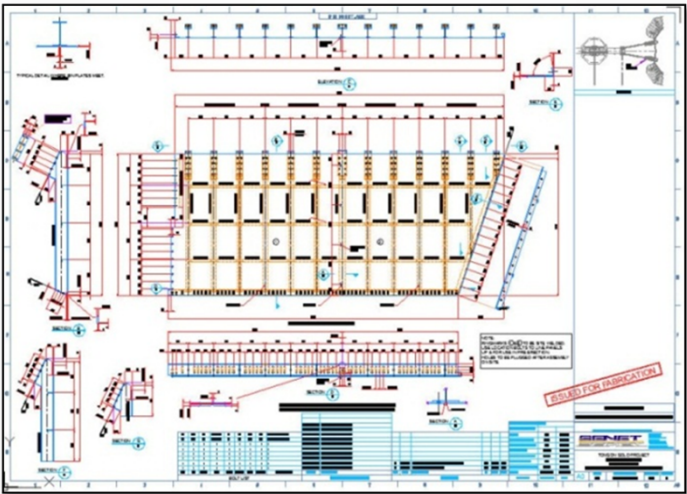
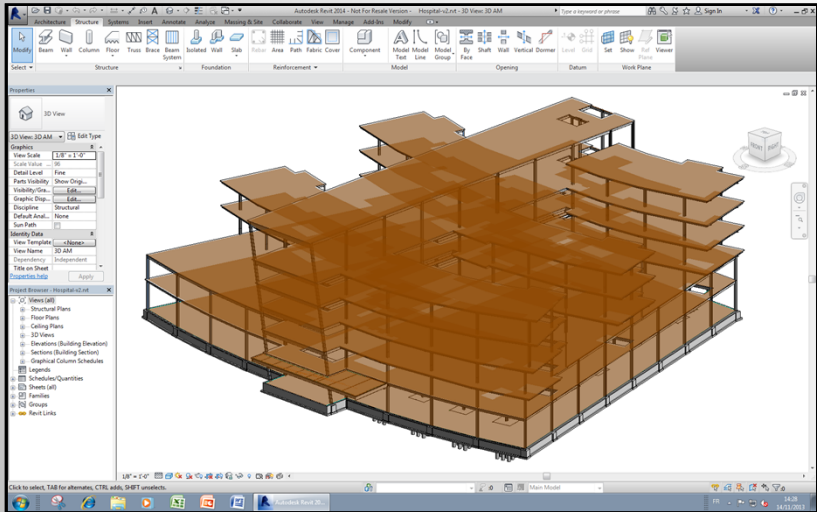
Revit Structure

Detailing and Fabrication

Tekla / Pro Steel

Construction

Navisworks / Glue / Point Layout
for Total Station Export



Preferred Workflow for Steel Design, Detailing and Installation

Design

Revit Structure

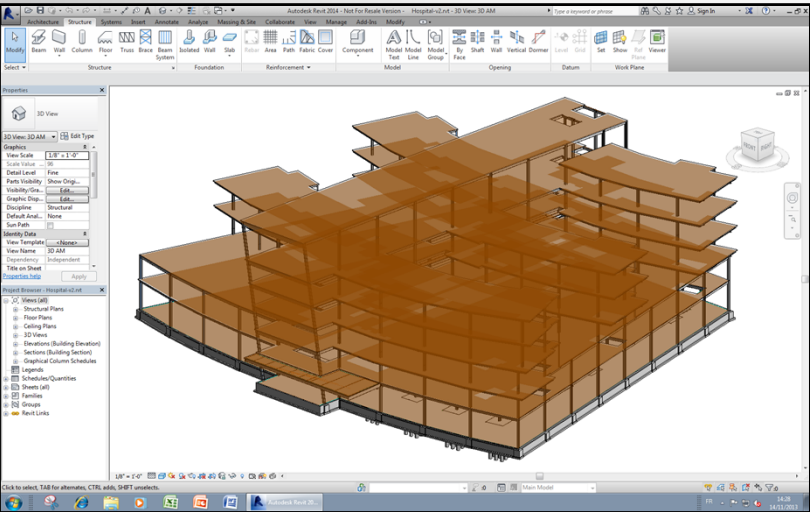
Detailing and Fabrication

Autodesk Advance Steel

Construction

Navisworks / Glue / Point Layout
for Total Station Export

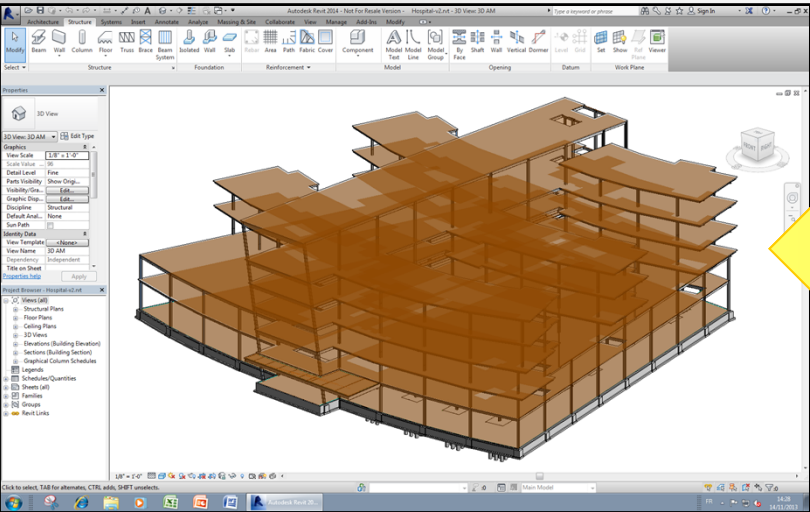
Interoperability



Preferred Workflow for Steel Design, Detailing and Installation

Design

Revit Structure



Detailing and Fabrication

Autodesk Advance Steel



Construction

Navisworks / Glue / Point Layout
for Total Station Export



Sync

Sync

Autodesk Advance Steel

Advance Steel is a software specifically designed for structural engineers and steel detailers who need an easy-to use steel detailing application.



- Allows Bi-directional data interoperability with Autodesk Revit Structure
- Automates the creation of complex structural models and connections that would be too tedious to manually model
- Increases productivity during the creation of construction detailing and documentation drawings, bills of material (BOMs) and reports



Autodesk Advance Steel Key Features

- Bidirectional Link with Autodesk Revit
- Intelligent Structural Objects
- Parametric Steel Connections
- Extremely Smart Detailing and Documentation Tools
- Bill of Materials and Reports Generation
- NC/DSTV File Generation
- Document Management and Revision Control

Advance Steel Plugin for Revit

Free for Subs Customers

**Advance Steel 2016 Extension**
Autodesk, Inc.
★★★★★ (5 reviews)


 Like 7  Tweet 0

OS: Win64

Language: English

Description

With Advance Steel 2016 Extension, Autodesk® Revit® 2016 users can quickly connect their models to Advance Steel 2016 using the export, import, and synchronize functionalities to transfer the model BIM data. This interoperability allows users to rapidly produce general arrangement drawings, fabrication drawings, BOMs, and NC files for steel structures.

The synchronization of BIM data between applications allows the user to update the modifications without having to reimport the entire structure. Synchronization also reduces the risk of potential errors by offering the possibility to track changes made on the same model in different applications.

Using Advance Steel 2016 Extension, the BIM data from the Revit model can be imported or exported also in other formats such as SDNF (Version 2.0 and Version 3.0), CIS2, IFC, and PSS.

[Read Help Document](#)

About This Version

Version 16.1.6104.0, 6/9/2015
Install on Revit in other languages
Allow manual mapping for non-standard Revit families

Demo

Now the goodies...

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