Using Assemble for Estimating, Scheduling, and Tracking Concrete

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CONNECT & CONSTRUCT SUMMIT





About the speaker

Nathan Menken – DPR Construction

- 9 Years of Construction Experience
 - 3 Years as VDC Enabled PE
 - 2 Years as VDC Coordinator
 - 4 Years as VDC Manager
- Previous Projects
 - Locations Arkansas, Colorado & Texas
 - Core Markets Commercial, Life Sciences, Advanced Tech, Data, Higher Education, Government & Aviation
 - \$ Amount Worked on 1.65 Billion

What You Will Get from this Class

Using Assemble for Estimating, Scheduling, and Tracking Concrete

This class will show the steps that lead from estimating to production tracking when using Assemble Systems for concrete. Getting quantities out of the model has been around for a while; but utilizing the lifecycle of the model to get costs from the quantities along with planning, scheduling, tracking, and production out of the model is a vision made possible by Assemble Systems. We'll cover how Assemble Systems can aid in workflows, along with best practices to help estimating, preconstruction, and operations teams get the most benefit possible out of a model. Join us as we dive in, and hopefully you'll come away understanding how you can bring more benefits of the model data to your project teams.

Getting BIM into the Field - Objectives

LEARNING OBJECTIVE 1

Discover how Assemble Systems can aid in the estimating workflow

LEARNING OBJECTIVE 2

Learn about how the preconstruction team can use Assemble Systems for better planning

LEARNING OBJECTIVE 3

Learn how the field team can use Assemble for custom utilization

LEARNING OBJECTIVE 4

See the full model lifecycle come together while using Revit, Assemble, and A360 Docs

VDC Adoption



Field

% of how many people in the field are utilizing VDC



Jobsite

% of how many people in the jobsite are utilizing VDC



Office

% of how many people in the main office are utilizing VDC

Concrete Numbers

8 PROJECT 35
JOBSITE TRAILER

16 LEAD CRAFT 130 CRAFT

Current project on going

Team Members working from the Jobsite Trailer

Concrete Lead Craft

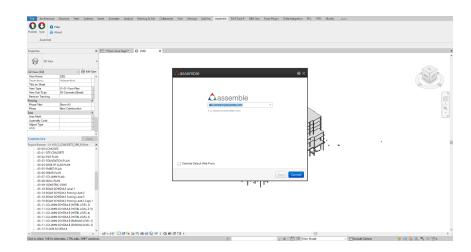
Concrete Craft

Before Assemble - Model Accurately

Model Authoring is the critical piece to be able to fully utilize your model in an effective way in Assemble

Tips for Successes:

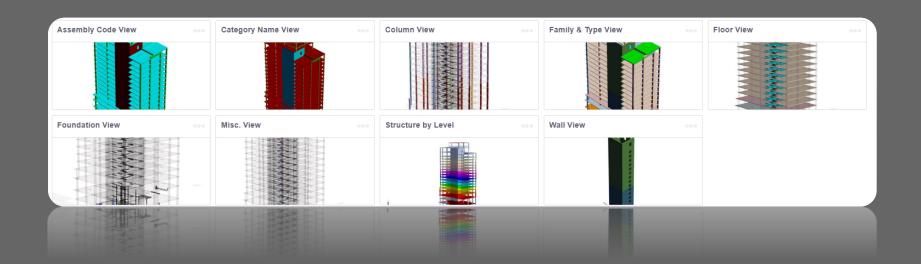
- -Set Up Useful Parameters
- -Create a Template that will streamline workflow
- -Understand the QTO Schedules
- -Collaborate with Project Team





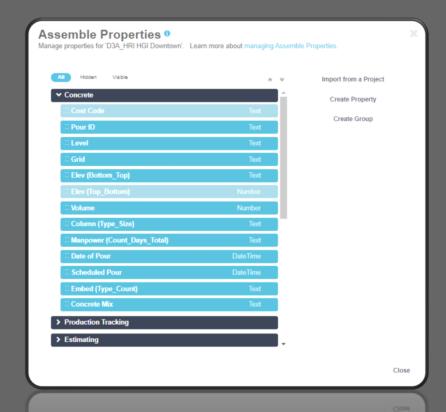
Set Up Model names

Make sure you have consistent model naming convention for team member clarity.



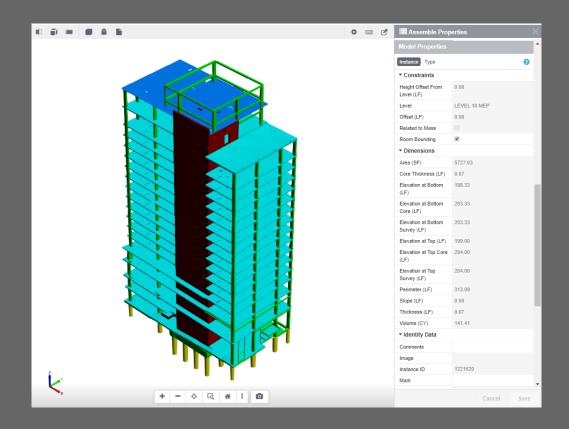
Set up View Names

Discuss with team members on what View are helpful.



Set up Assemble Parameters

Create Parameters that will aid in your workflow and end goal.

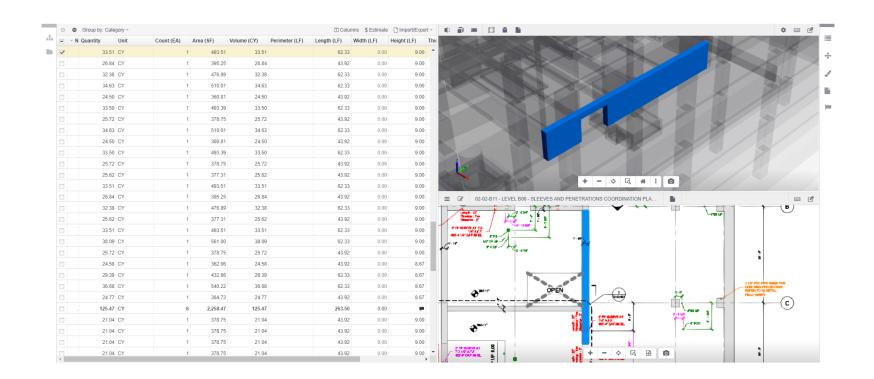


Confirm Revit Parameters

Double check to make sure the Parameters that you added in Revit are coming through or input data into the fields either for pushing back to Revit or to fill in on the iPad.

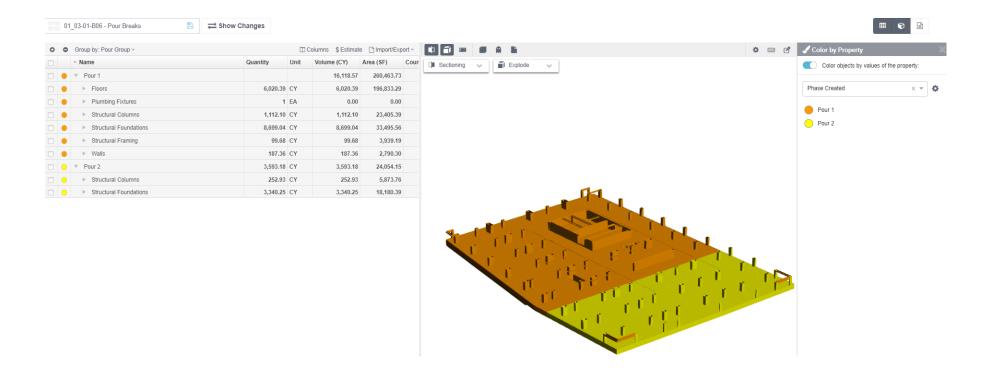
Planning with Assemble

Utilizing the 2D & 3D Views to help visually understand the drawings help project planning.



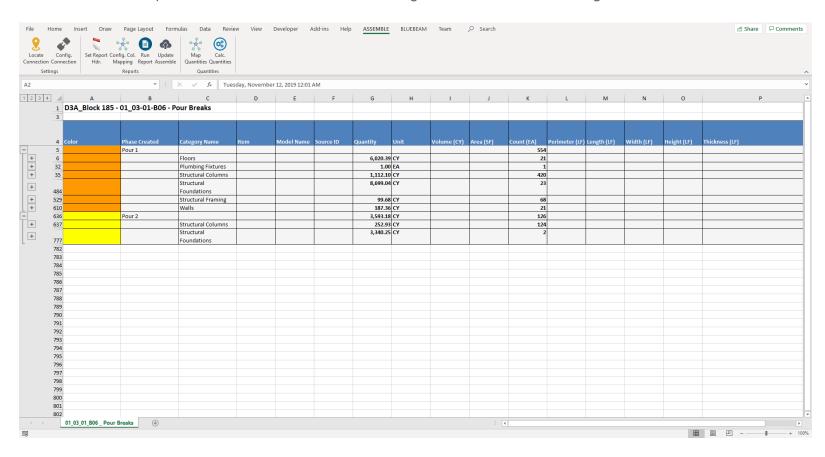
Planning with Assemble

Plan the work for teams to provide input and review QTYs.



Exports from Assemble

Assemble QTYs can be exported and customized in Excel through the Assemble Excel Plugin



Concrete QTO Dashboards

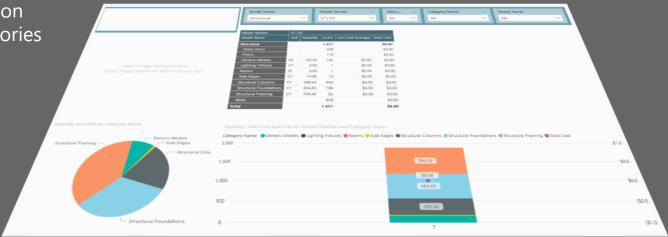
Assemble QTO information is an automatic sync option from Assemble into Power BI.



-QTY information

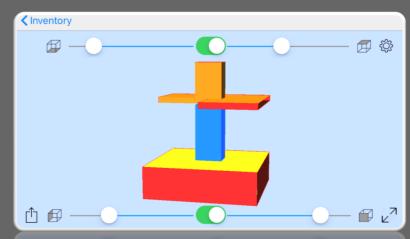


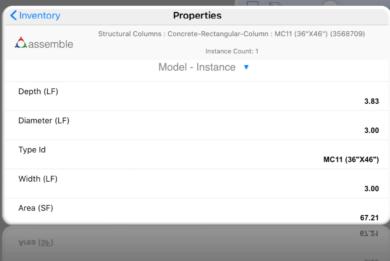
-Specific Categories

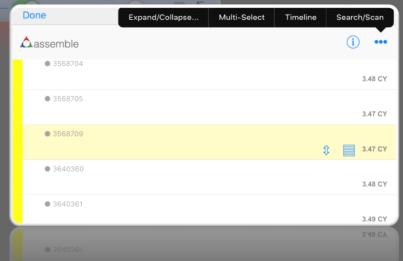


Concrete Models on Mobile

Assemble mobile is a power tool that brings all the model metadata to the fingertips of anyone in the field and can be utilized not only for QTYs, model information, measuring but also tracking status of model objects.





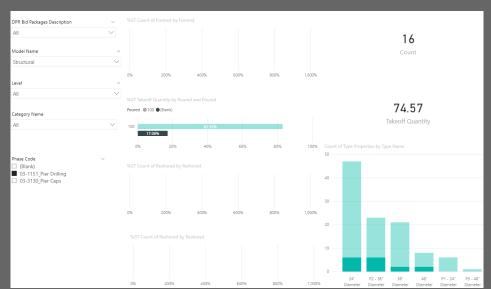


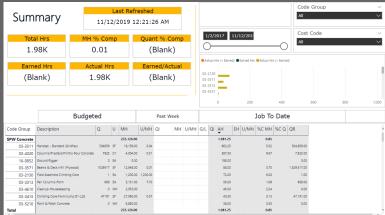
Concrete Assemble Dashboards

Assemble Status Tracking allows for tracking of model element from the field. Provides a status update to those not on the project to understand how the project is trending.

Things to keep in mind:

- -What do you want to track?
- -How do you want to status?
- -What metadata do you need?
- -Will you have schedule data?
- -Final output?







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