



# Tekla software for concrete contractors





# Plan and pour concrete better with constructible models

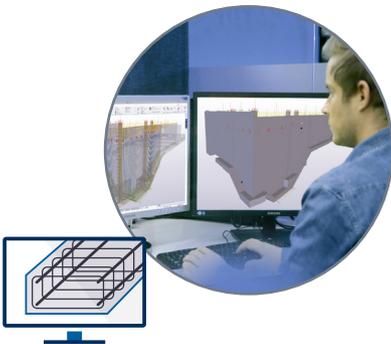
Uncertainty and risk are major concerns for concrete contractors, but with the right tools you can manage these and improve your business. Tekla software allows contractors who plan and pour concrete on site to improve productivity and quality with coordinated and timely information.

Successfully field tested, Tekla software is proven to improve the productivity of concrete construction. With intuitive information management tools, you have unrivaled insight and control of your projects reducing your risk.

Constructible concrete models easily created with Tekla Structures allow you to automate tedious, manual tasks from preconstruction to pour, and deliver consistent, accurate, construction-quality building information that can be generated quickly from the Tekla model.

## With Tekla you can

- ▶ Utilize accurate real time information for smooth construction
- ▶ Reduce risks with unrivaled project insight and control
- ▶ Improve estimates and schedules with accurate material quantity takeoffs
- ▶ Win work with impressive model-driven sales presentations
- ▶ Protect profit: Save time when planning and pouring
- ▶ Communicate clearly, manage teams and coordinate projects effectively
- ▶ Reduce waste and improve quality



### Model

Quickly and easily create accurate, constructible concrete models.



### Plan

Use the 3D model to get organized, drive estimates and efficiently prepare to pour.

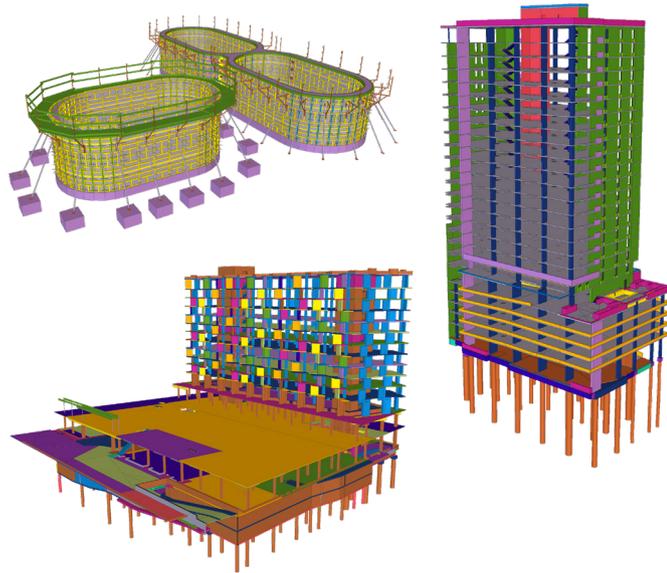


### Pour

Go to site! Take the model and all the benefits into the field.

# All project types and sizes

With Tekla you can make your projects predictable thanks to better planning and management. Regardless of the structure or project type and from preconstruction to pour, concrete construction can become more productive in the office and on site by utilizing reliable information from constructible models.



## Working together

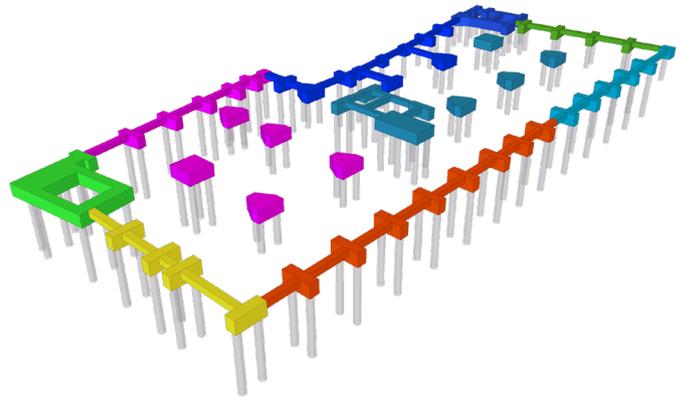
We work together with our customers to make concrete construction smarter. Created by people who know the industry and understand your needs, Tekla software with its unique pour handling capabilities is purpose built for creating and managing construction information and improving pour management.

## Accurate Information Management

Tekla models can include all the information you need for your projects to run smoothly.

- ▶ Material quantities and formwork
- ▶ Track project status, like work completed, ongoing or outstanding
- ▶ Manage location-based information such as level, phase and zone
- ▶ Access properties and attributes, rebar types, crew information and more

With easy to use software, you can enjoy consistent, up-to-date, construction-quality building information.



## Learning and Support

Getting started with Tekla software is easy. In addition to extensive online support services and training opportunities, local support works to solve any possible technical problem. With subscription, you always have access to the latest, most advanced software.





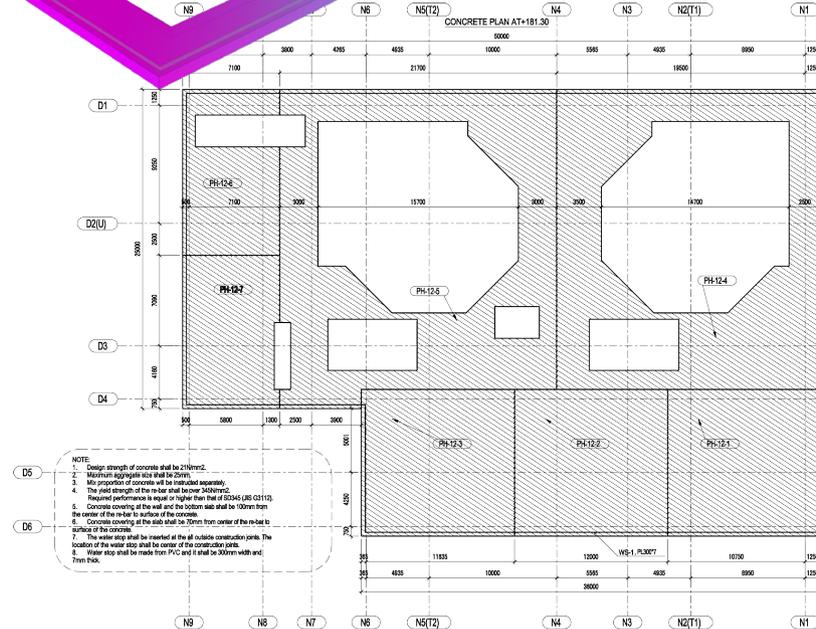
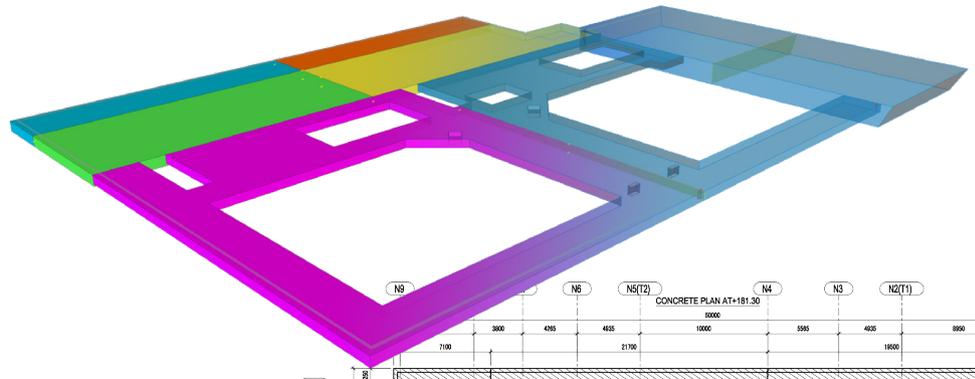
## Unique pour concept

Tekla's unique pour modeling capabilities enable easy definition, quantification, performing and tracking of pours. Each pour is accurate and complete with areas, volumes, required mix information, rebar types, embeds, and even formwork.

## Understand structures

Sharing and understanding information about who does what is essential to successful construction. Information rich concrete models and powerful building information management tools help effective communication across the project.

A 3D model makes understanding the structure easy for everyone on site and project progress information visualized in 3D is easily communicated to all project stakeholders.



## Drawings at hand

If you need additional rebar placement, lift or formwork drawings, you can automatically create these from a Tekla model – complete with dimensions and annotations.



## Straight from the manufacturer

Build your constructible models with ready-made objects. Tekla Warehouse is an online service offering custom parts, apps, bought-out and formwork objects, bolts, embeds, templates and more.

## With Tekla you can

- ▶ Create constructible concrete models quickly and easily
- ▶ Define and manage pours with unique, intuitive tools
- ▶ Make changes simply by dragging geometry into place - what you see is what you get
- ▶ Use real manufacturers' components such as formwork and embeds to build high-quality models quickly
- ▶ Coordinate effectively: detect clashes and find and fix problems early
- ▶ Generate drawings and visualizations directly from the model
- ▶ Work on the same model regardless of team member's location

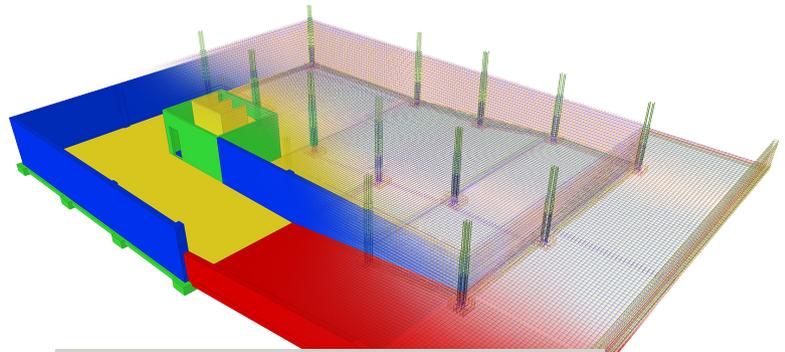
# Plan for smooth construction



Tekla's unique ability to accurately handle pours and intuitive information management tools help you improve project coordination and control, manage risks and plan for success. With easy access to accurate, constructible model information in the office and on site you can remove uncertainty and prepare to pour with confidence.

## Quick material quantification for better estimation

Because traditionally tedious, manual material quantity takeoff (QTO) is automated, quantifying and reporting in a familiar format is easy with Tekla. Precise material quantities for concrete, rebar, embeds and formwork areas drive better estimates and schedules, helping you win work and improve project profitability and pour productivity.



## Pour planning & management

Practical pour sequencing and scheduling with comprehensive pour quantity takeoffs mean that you can better budget and allocate resources. With Tekla your pour plans are clear and coordinating and communicating with other project parties easy. Additionally, you can track and report concrete pours on site and evaluate team performance.

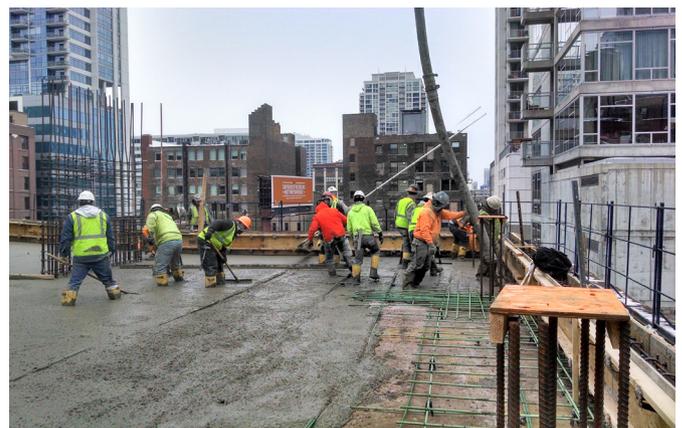
Pour Number	Pour Type	Material	Concrete Mixture	Top level	Volume / m <sup>3</sup>	Section	Floor
Category: Pour status > Ordered (1)							
				1,6			
Category: Pour status > Poured (22)							
				77,7			
Category: Pour status > Drying (4)							
Category: Pour status > Completed (22)							
Number of objects in the table: 49							
Object Browser							
▼ QTO - Concrete - Pours   Modify   Show from model   Show from Categories							
▼ Category: Pour status > Ordered (1)							
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▼ Category: Pour status > Poured (22)							
12	Star	C30/37		+3421	1,6	Frame	Floor 1
▼ Category: Pour status > Drying (4)							
▼ Category: Pour status > Completed (22)							
Number of objects in the table: 50							
Result of: Total   Of these rows: All							
481,6							

## Know your formwork requirements

Automated formwork area calculations make Tekla's material quantity takeoff for planning, procuring and deploying formwork unique. With insight into the formwork requirements, you can optimize the schedule and maximize formwork efficiency.

## Scheduling and coordination

You can import schedules from software solutions such as Vico, Primavera and MS Project to Tekla and connect these to pours. Tekla models allow you to review and simulate different construction scenarios. Material quantities respond automatically to changes and the impact appears in the different scenarios without manual work.





# Pour successfully on site



When the work has been won and project progresses, Tekla's precise information management solution offers unrivalled insight and control that help you to reduce risks.

## Beyond the bid: Constructible quantities

For smoothly running construction, a real-time understanding of quantities is necessary. With Tekla you can quickly create on-demand reports and have easy access to up-to-date and consistent information with logistic and material attributes.

## Construction layout: Linking the model to reality

Automatically create and group layout points required on site with the constructible model. Total stations increase productivity in layout process and by integrating point data in Tekla models to layout tools from Trimble, you can confidently lay out points on site faster and more exact.

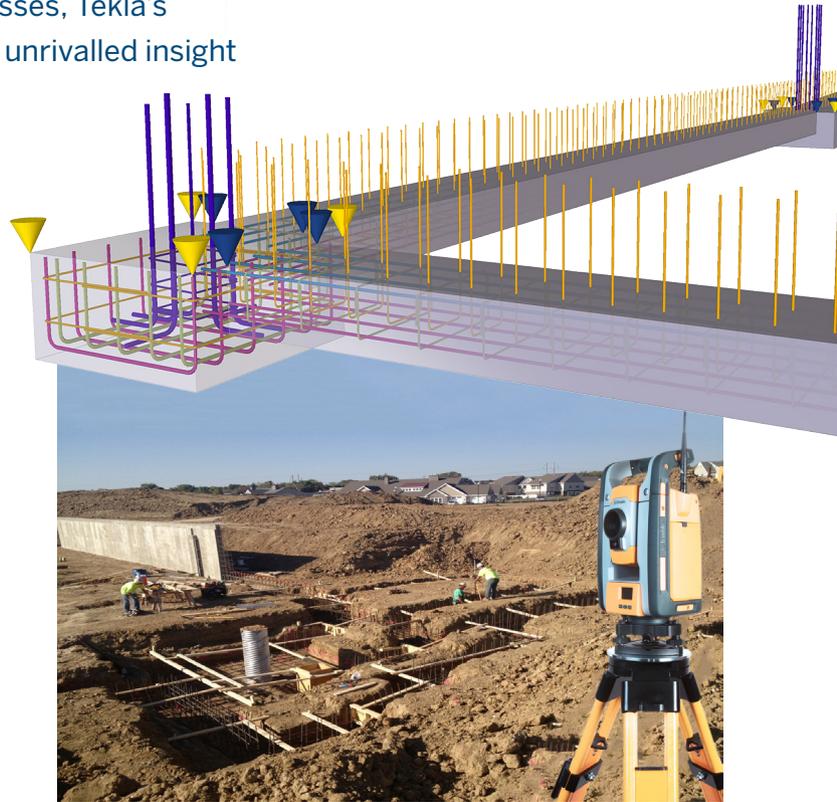
After the pour is done, you can verify the accuracy of your work and easily make any necessary changes to ensure smooth progress.

## Know Your Project: Visualize and coordinate

The constructible model expands project understanding and drives more productive construction. Visualize project progress, follow-up and easily communicate with the model, regardless of location and on desktop or mobile.

## Trimble Connect

Trimble Connect allows everyone involved in a project to see the big picture right down to the tiniest detail. The collaboration solution brings people, technology and information together for successful concrete construction.



## With Tekla you can

- ▶ Quantify materials accurately and automate tedious, manual tasks
- ▶ Drive better estimates and schedules, win work and improve site pour productivity
- ▶ Understand the design intent and find relevant information easily
- ▶ Execute layout on site faster, more flexibly and accurately
- ▶ Visualize sequences and project status, follow up progress and communicate clearly
- ▶ Utilize consistent information when and where required, on desktop or mobile
- ▶ Solve issues early and manage changes easily



Educate

Design

Detail

Fabricate

Construct

# Tekla software by Trimble

Transform the way you work with reliable, detailed, data-rich structural workflows for outstanding performance. Build your legacy with truly constructible BIM, and feel the power of Tekla at your fingertips.

## Why Tekla

Make the sky your limit and empower yourself to make real change with truly constructible BIM software. It drives more detail and data into structural BIM workflows for a deeper understanding of your designs at every phase. You have the expertise; we have reliable technology. Let's meet the changing demands of your industry, your customers, and the planet together. No matter your role or project size, Tekla can help you transform the construction industry, overcome challenges and achieve outstanding results.

[www.tekla.com](http://www.tekla.com)



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