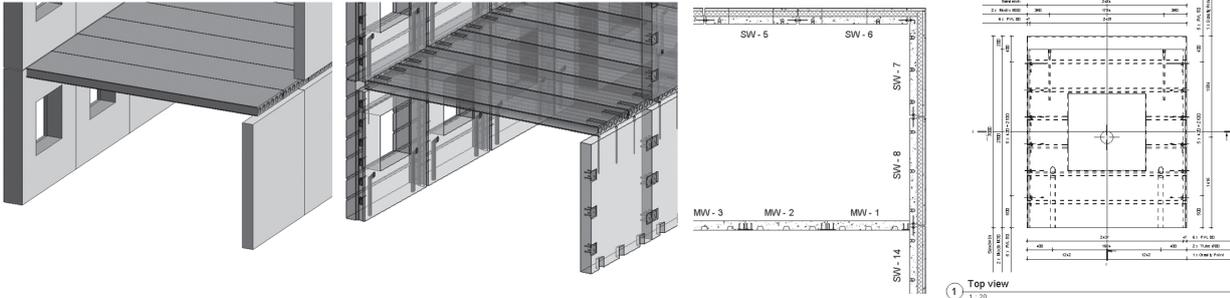


 **PRECAST
CONCRETE**

COMPREHENSIVE BIM SOFTWARE FOR DETAILED
MODELING OF PRECAST CONCRETE ELEMENTS IN REVIT®

- Model precast walls and floors with easy split, update and modify options
- Insert connection details, plates, grout tubes, anchors, etc. using flexible rules setup
- Manage changes in your project and benefit from dynamic updating of assemblies
- Automatically sort elements and prepare shop drawings for final documentation

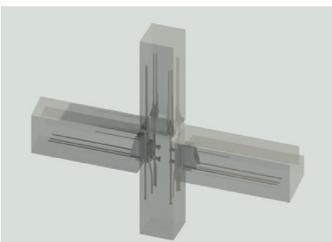
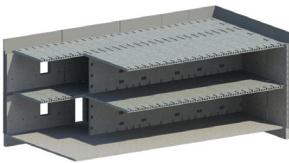
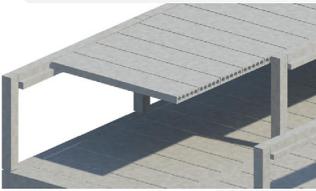
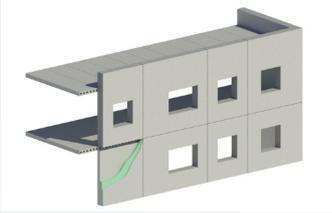
CREATE PRECAST ELEMENTS – INSERT DETAILS – SORT ELEMENTS – CREATE DRAWINGS



- **Avoid wasting time:** lengthy tasks automated and/or eliminated
- **Eliminate useless costs:** profit boosted by faster work and easier updating
- **Don't risk falling short:** best practices built-in for any design standards

A COMPLETE SOLUTION FOR PRECAST ELEMENT DESIGN AND DOCUMENTATION

Process Precast element	Modeling of main elements	Insertion of details	Numbering	Documentation
Foundations	Revit	Insert Elements	Sort Mark	Smart Assemblies
Precast columns	Revit	Insert Elements	Sort Mark	Smart Assemblies
Precast beams	Revit	Insert Elements/ Smart Details	Sort Mark	Smart Assemblies
TT slabs	Revit	Insert Elements/ Smart Details	Sort Mark	Smart Assemblies
Hollow Core Slabs	Smart Floors/ Revit	Revit/ Smart Details	Sort Mark	Smart Assemblies
Massive floors	Smart Floors/ Revit	Revit/ Smart Details	Sort Mark	Smart Assemblies
Massive walls	Smart Walls/ Revit	Smart Details	Sort Mark	Smart Assemblies
Sandwich walls	Smart Walls/ Revit	Smart Details	Sort Mark	Smart Assemblies
Socle panels	Smart Walls/ Revit	Smart Details	Sort Mark	Smart Assemblies
Stairs	Revit	Revit	Sort Mark	Smart Assemblies
Reinforcement	Revit	Revit	Revit	Smart Assemblies



CHOOSE THE FULL SOLUTION OR SEPARATE MODULES

WALL AND JOIN MANAGEMENT TOOLBOX

- Easily divide walls and control, change or update gaps between them anytime
- Quickly decompose multilayer walls into separate walls while keeping openings in place
- Check, edit, change and write wall parameters in a project with the handy Modify/Calculate Parameters window

HOLLOW CORE SLAB CREATOR AND UPDATER

- Insert or update floor panels based on selected walls, grids, reference planes or structural framing
- Set offsets and position for floor panels
- Quickly insert holes into selected floor panels
- Automatically update all floor groups when model geometry changes

LOD 400 MODELING AUTOMATION IN REVIT

Insert grout tubes, cast-in plates, anchor bolts, lifting bolts and cuts on any surface of beams and walls

- Rule-based distribution of details and voids on any element surfaces
- Simple insertion of point-based and line-based details
- Host-element data can be read and used to modify detail families automatically
- Easily rotate/flip details in configuration window to get desired result
- Check whether host element has enough solid body for detail to be inserted
- Insert details according to gravity point
- Insert details at intersection points of other Revit elements
- Quick modification and updating of inserted details
- Automatically insert details based on a defined configuration name
- Smart Assemblies, used for workshop drawings, recognizes changes made by Smart Details

VERSATILE RULE-BASED OBJECT PLACEMENT

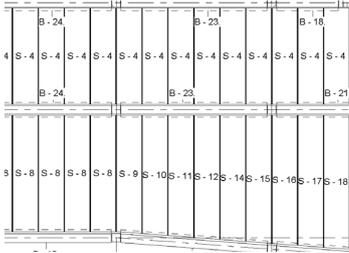
Insert connection details on columns, foundations and beams using defined rules

- Rule-based insertion of elements
- Host-element data can be read and used to modify detail families automatically
- Database of insert element rules can be easily extended on request by Revit users
- 'Project Family Browser' shows you all available project elements in a convenient dialog; Drag and drop functionality lets you easily place family elements in a Revit project



FLEXIBLE ELEMENT AND GRID RENUMBERING

Sort and add "Mark" values to precast elements on the basis of their volume, location, ID, length or any other available parameters

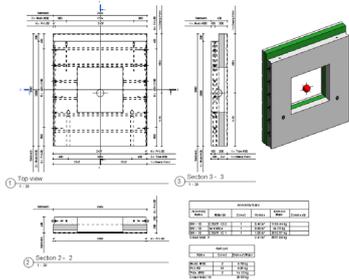


- Powerful and flexible functions let you easily renumber any Revit elements (beams, columns, foundations, walls, connections, etc.) in a number of different ways
- Automatic recalculation of shared X, Y, Z coordinates
- Create new shared parameters and benefit from many other handy functions.
- Save numbering settings under a separate name
- Sort elements in ascending or descending order



SHOP DRAWING GENERATION WITH RELEVANT VIEWS AND DIMENSIONS

Create views of foundations, walls, beams, columns and floors with automatic dimensions and place them into sheets



- Automatic addition of all hosted elements to an assembly
- Use varied templates to automatically create views
- Auto-generate schedules based on schedule templates
- Rule-based creation of dimensions with notes in selected views
- Place views on sheets automatically based on a sheet template
- Create multiple assemblies with defined configurations in a single click
- Easily check, update, edit and change dimensioning configurations of selected assemblies
- Update assemblies on the basis of project changes
- Select/find/isolate primary and secondary assemblies
- Find changes in assemblies due to new hosted details
- Insert details/cuts on all assemblies of the same type with one click
- When making shop drawings, Smart Assemblies recognizes changes made by Smart Details to enable quick detailed modeling



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