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Calculate yesterday's estimates

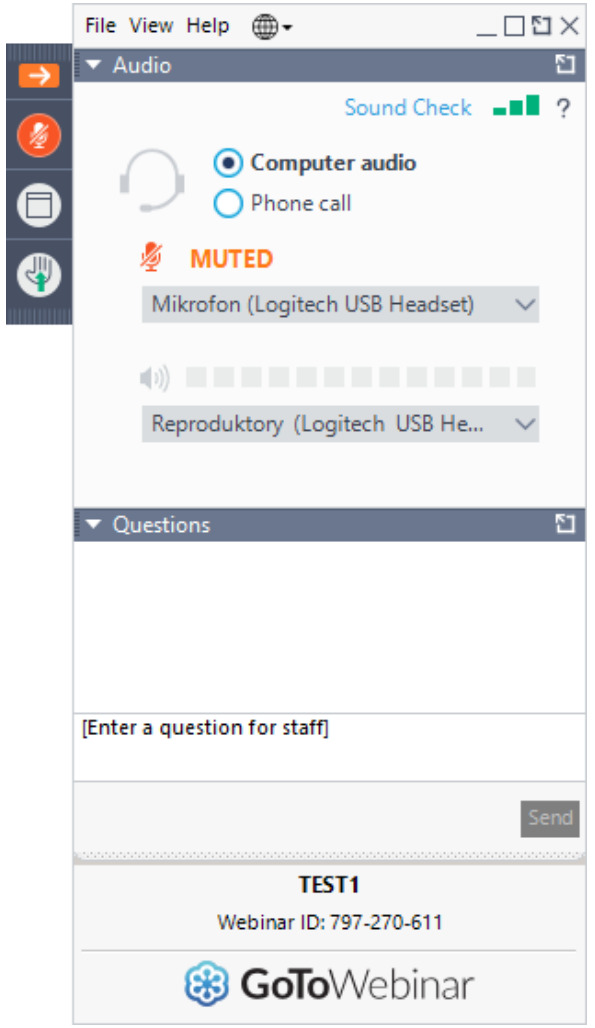
GROUP, LOAD, DESIGN, DELIVER ALL CONNECTIONS IN ONE GO

Control Panel

When you first join a session, the Control Panel appears on the right side of your screen. Use the Control Panel to manage your session. To free up space on your desktop, you can collapse the Control Panel and use the Grab Tab to continue to manage your session.

- **Grab Tab**: From the Grab Tab, you can hide the Control Panel, mute yourself (if you have been unmuted by the organizer), view the webinar in full screen and raise your hand.
- **Audio Pane**: Use the Audio pane to switch between Telephone and Mic & Speakers.
- **Questions Pane**: Ask questions for the staff.

QUESTIONS HANDOUT



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AGENDA

Intro to IDEA StatiCa Checkbot

- ✓ Group and batch connection design
- ✓ Critical loads for connection group
- ✓ Bulk report from Checkbot
- ✓ IFC model with connections

Q&A

Ps. Download it now!

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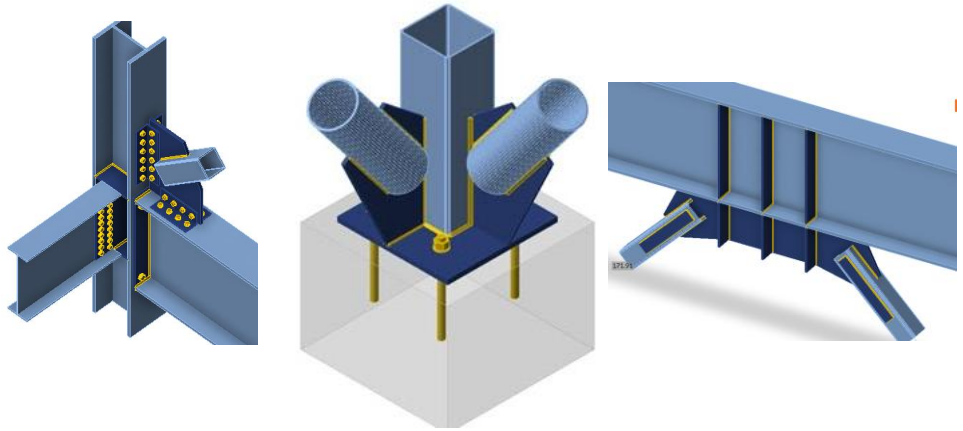
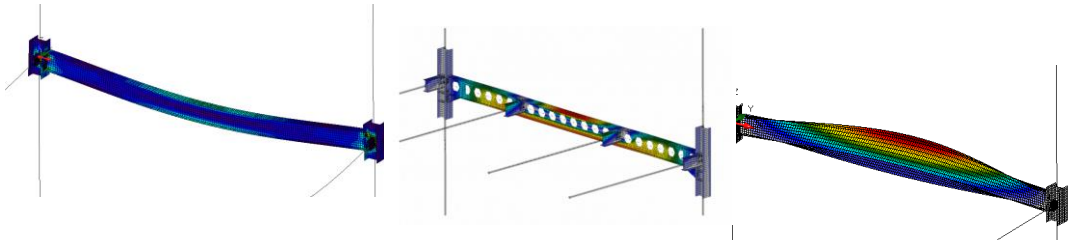
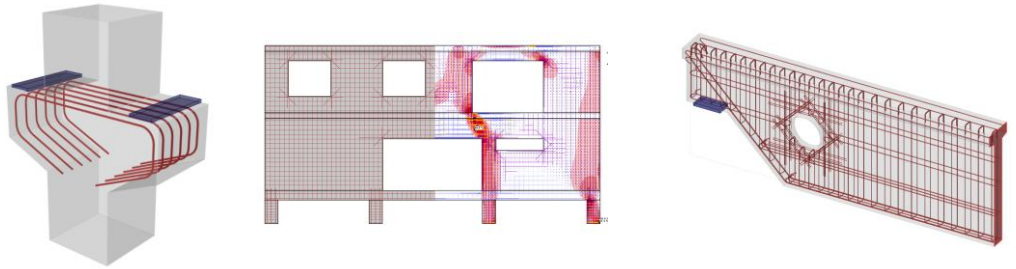
Connection
Steel



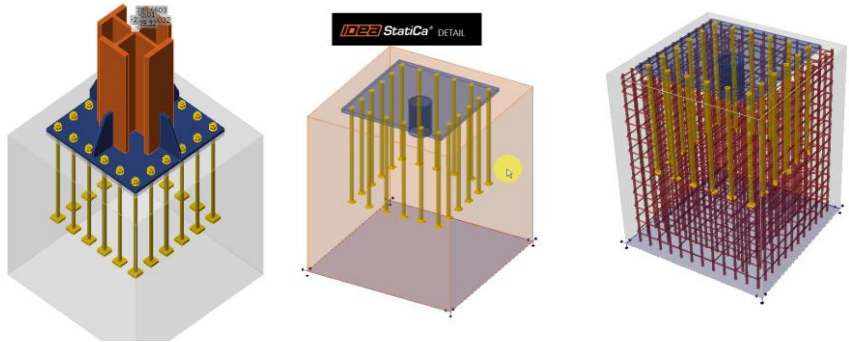
Member
Steel



Detail
Concrete



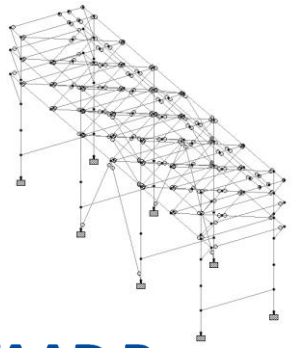
Connection + Detail
Steel + Concrete



INTEGRATED CONNECTION DESIGN

Analysis

1. Global structural analysis and design



STAAD.Pro

SAP2000

ETABS®

RAM® Structural System
CONNECT Edition

Tekla
Structural Designer

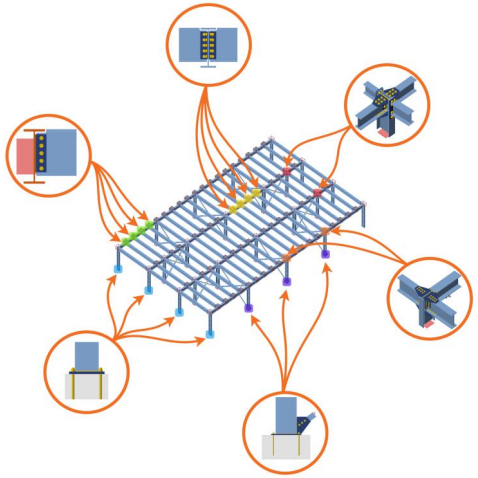
AUTODESK
Robot Structural Analysis
Professional

3D | RISA-3D

Checkbot

1. Import the whole geometry to Checkbot
2. Use the load combinations from the source application

IDEA StatiCa®
Calculate yesterday's estimates



Connection design

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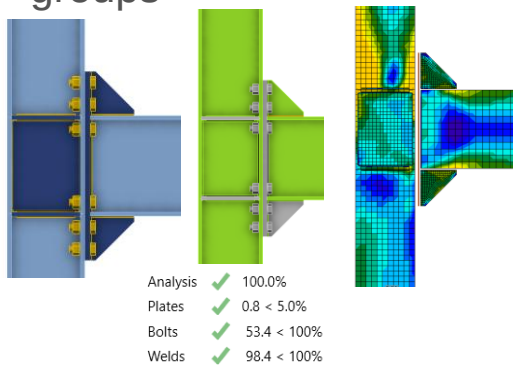
Calculate yesterday's estimates

1. Design and optimize connection for the actual loads
2. Design connections by groups



Connections

Information

Connections	122
To be designed	99 (81%)
To be checked	15 (12%)
Code-check passed	7 (5%)
Code-check failed	1 (0%)

Deliverables

1. Detailed calculation reports and bill of materials

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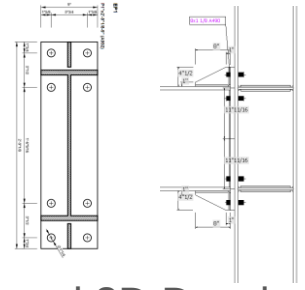
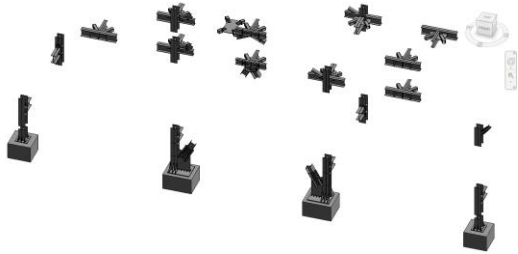
Calculate yesterday's estimates

2. Connection sketches and 2D Drawings

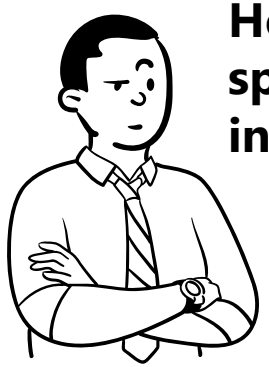


3. IFC and 3D Drawings

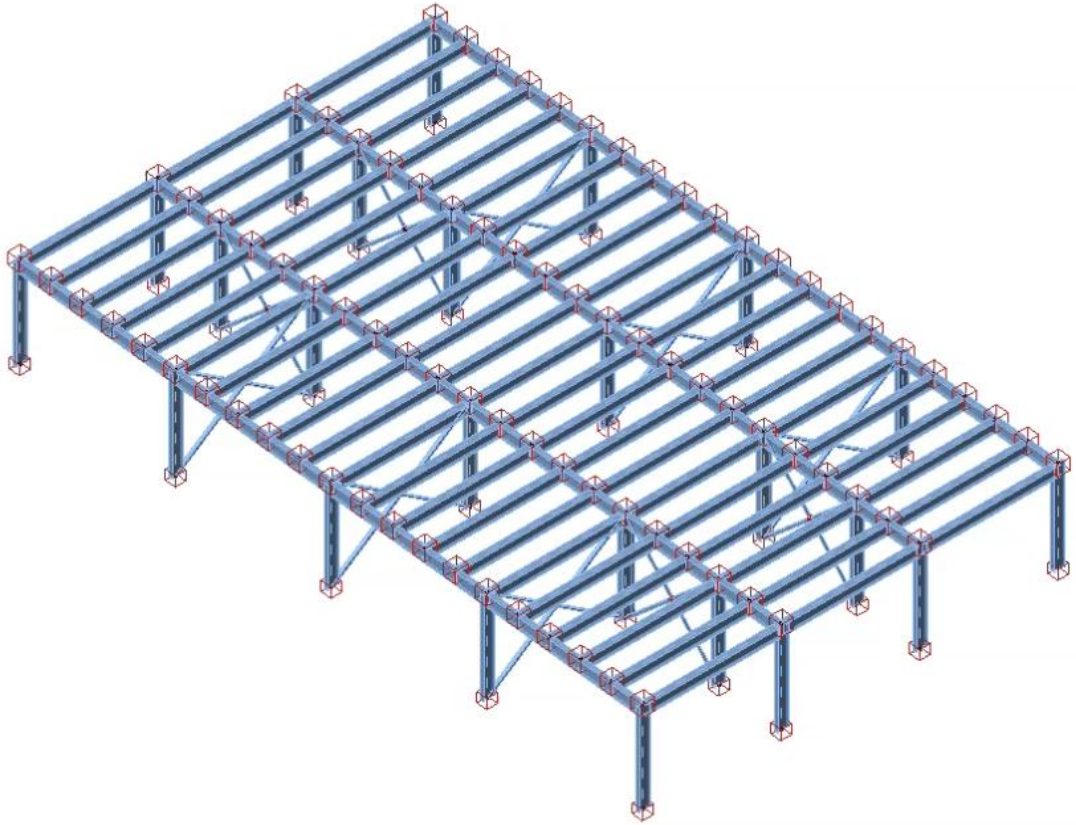


EXAMPLE PROJECT

- Project joints = 118
- Project connections ~200



How much time would you spend designing connections in this project?



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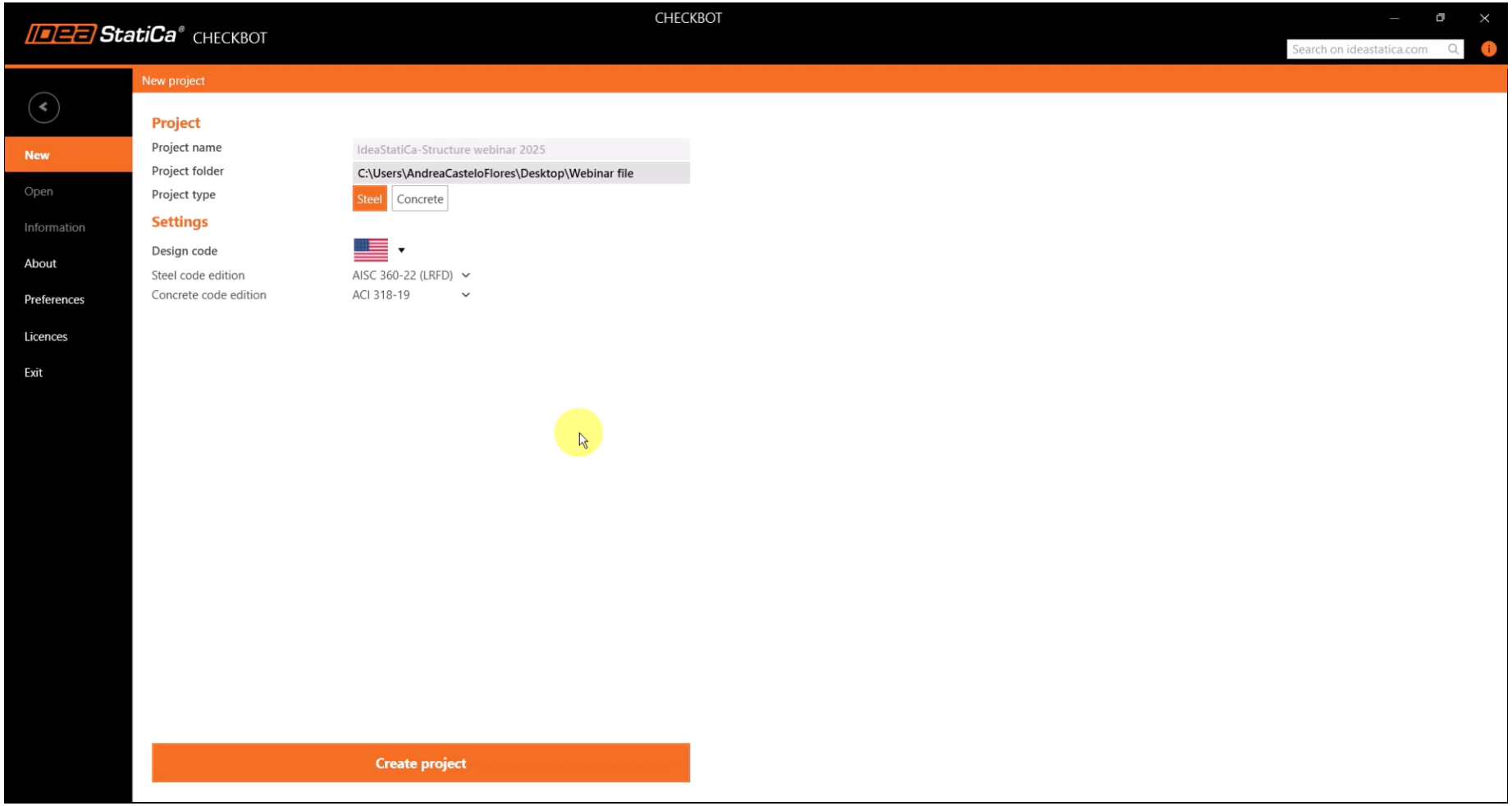
DEMO VIDEO



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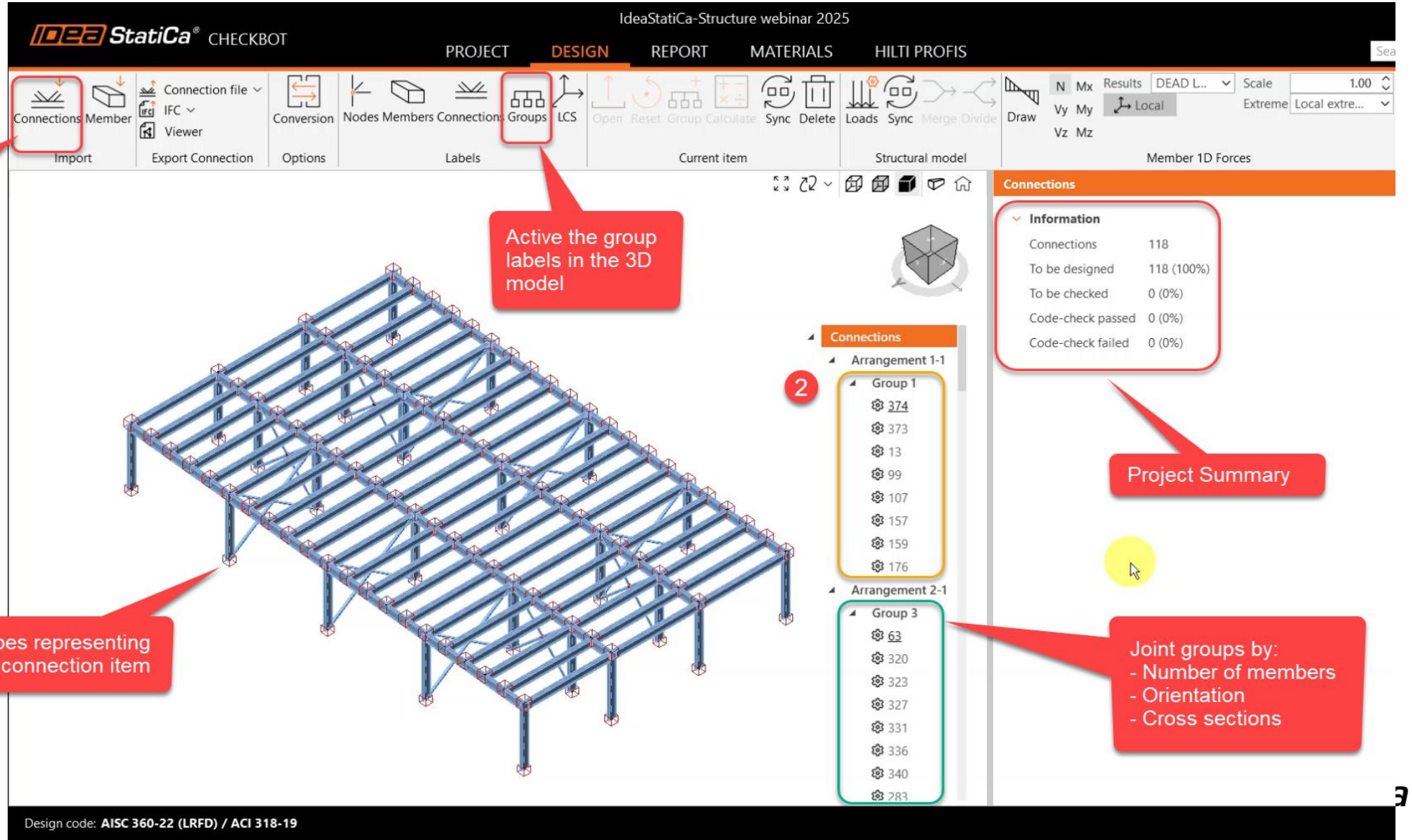
AUTOMATIC GROUPING



Icon to import the selected geometry from the source app

Active the group labels in the 3D model

Project Summary

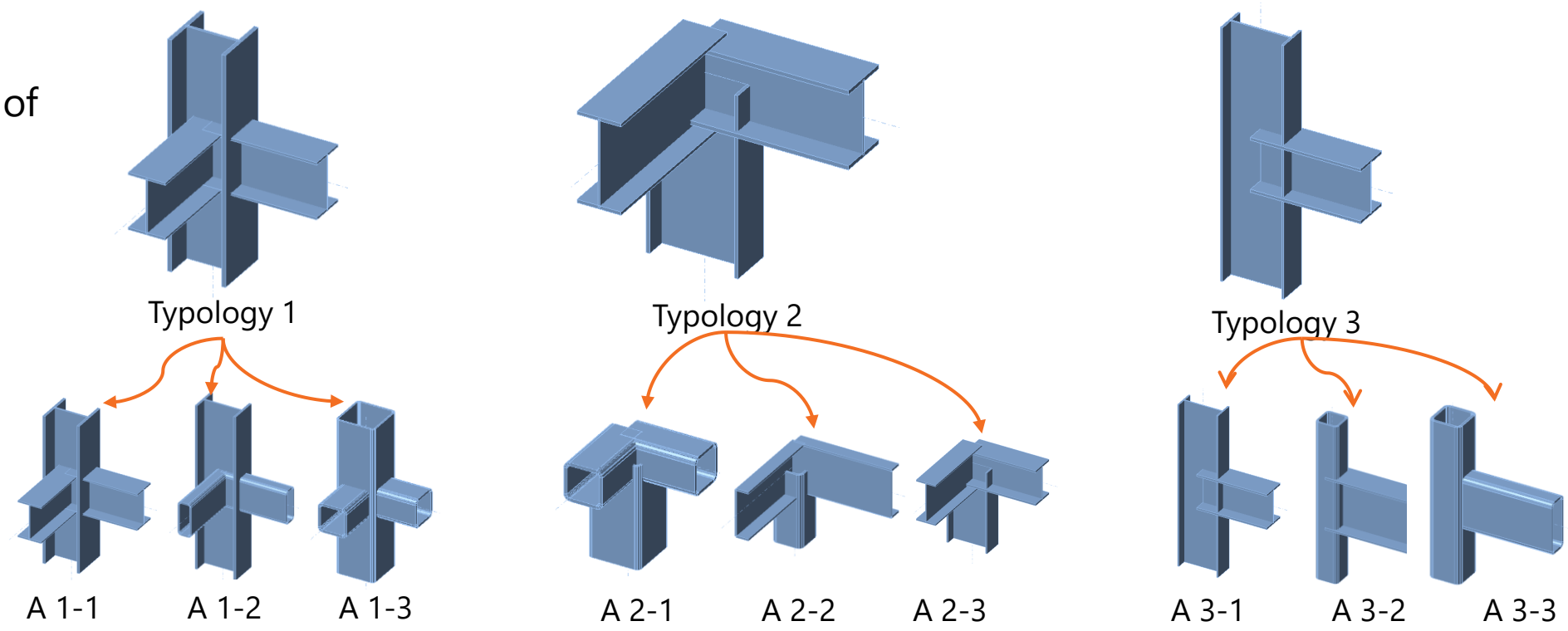
Cubes representing the connection item

Joint groups by:
- Number of members
- Orientation
- Cross sections

CHECKBOT Dynamic Grouping

Typology : Number of members and orientation

Arrangements: Cross section



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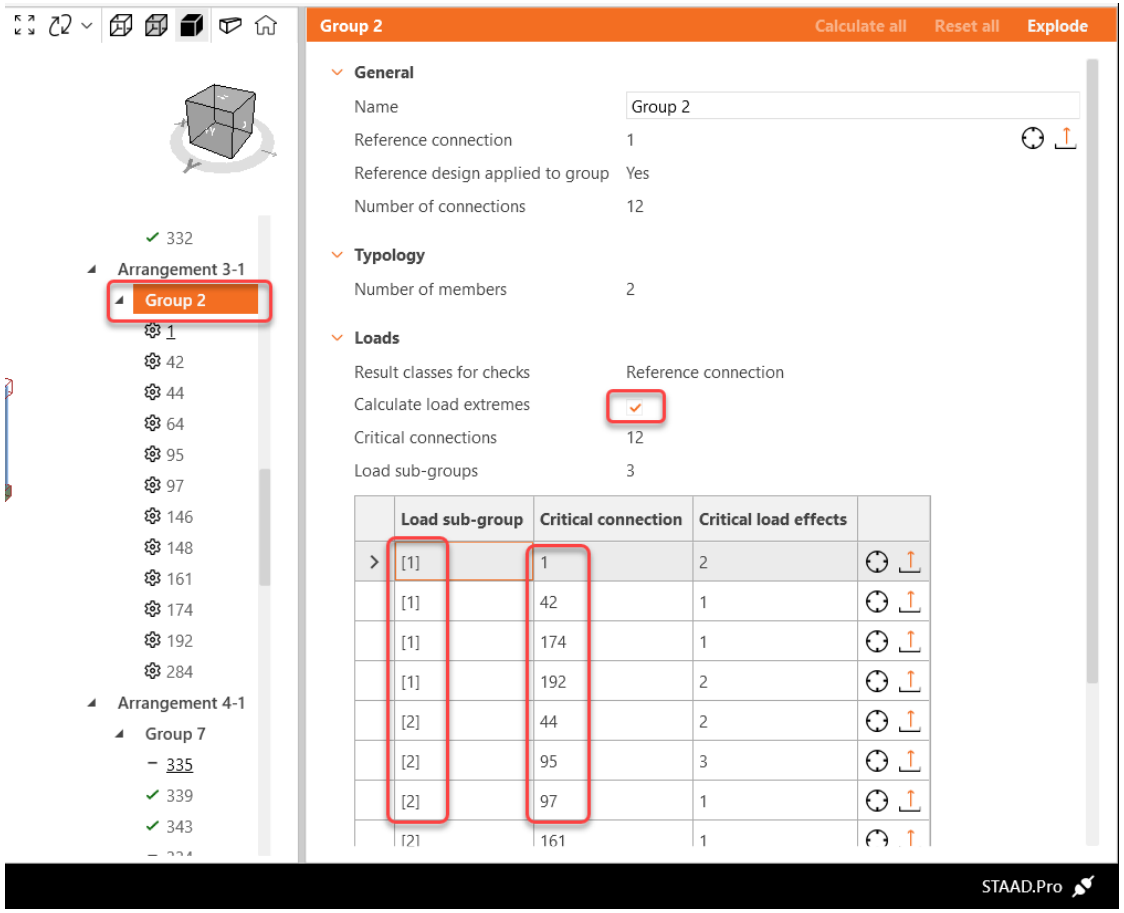
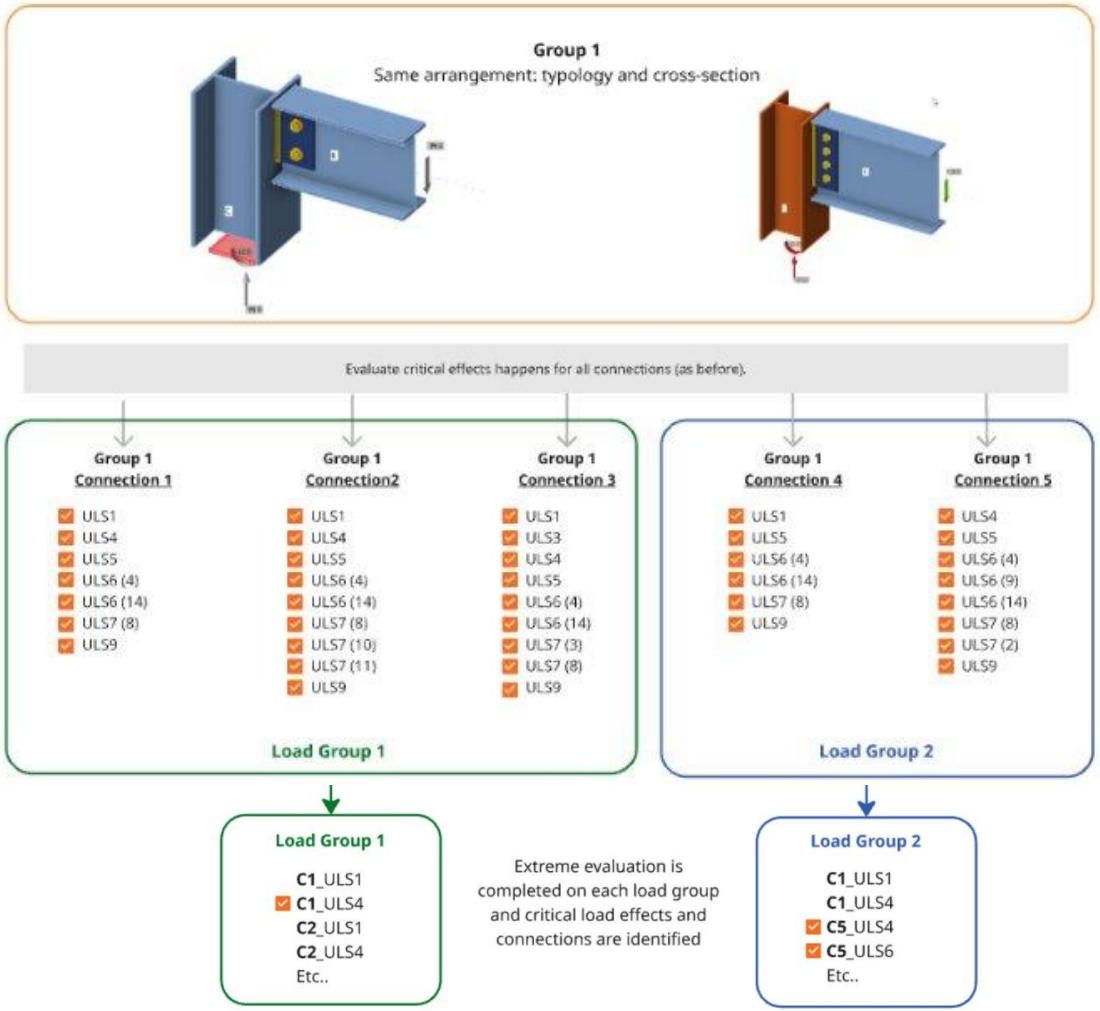
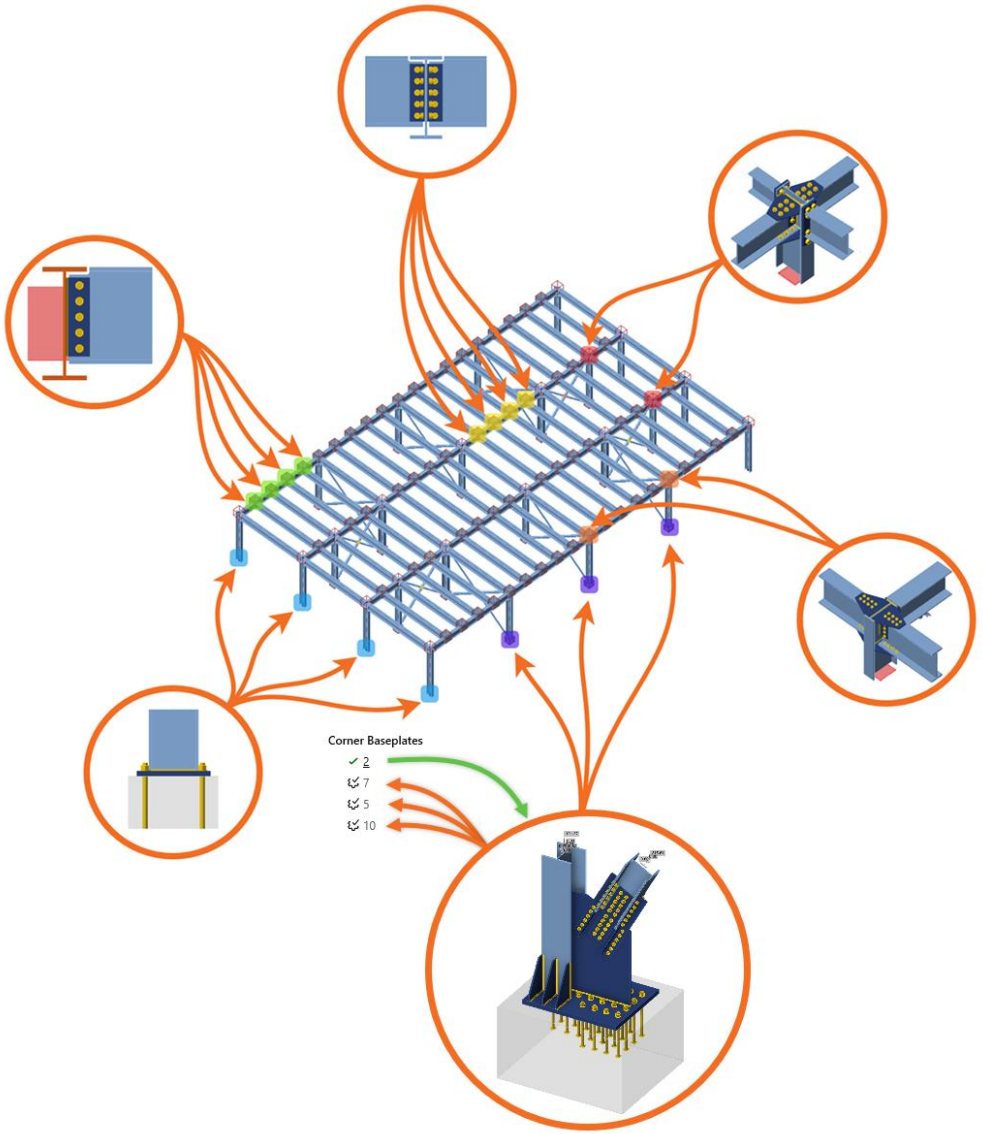
CRITICAL LOAD COMBINATIONS FOR GROUPS





BATCH DESIGN

- ✓ **Model** reference connection
- ✓ **Analyze and check** entire groups
- ✓ **Results** stored in Checkbot



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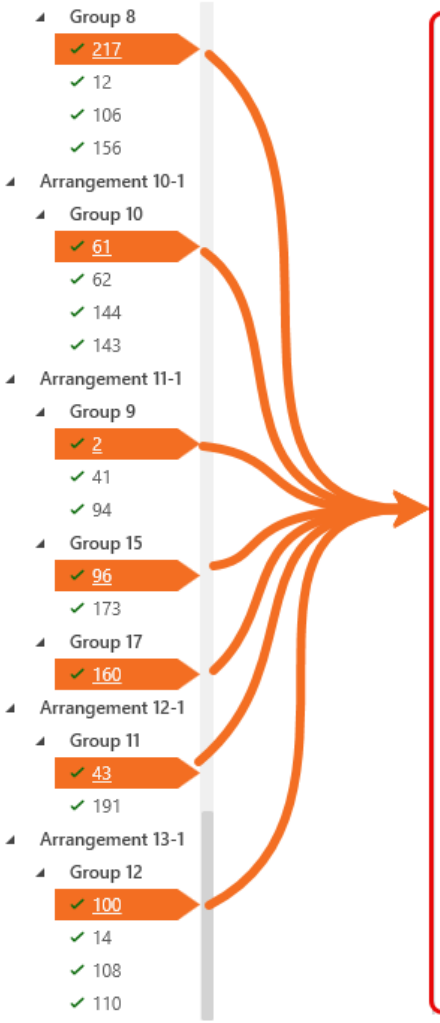
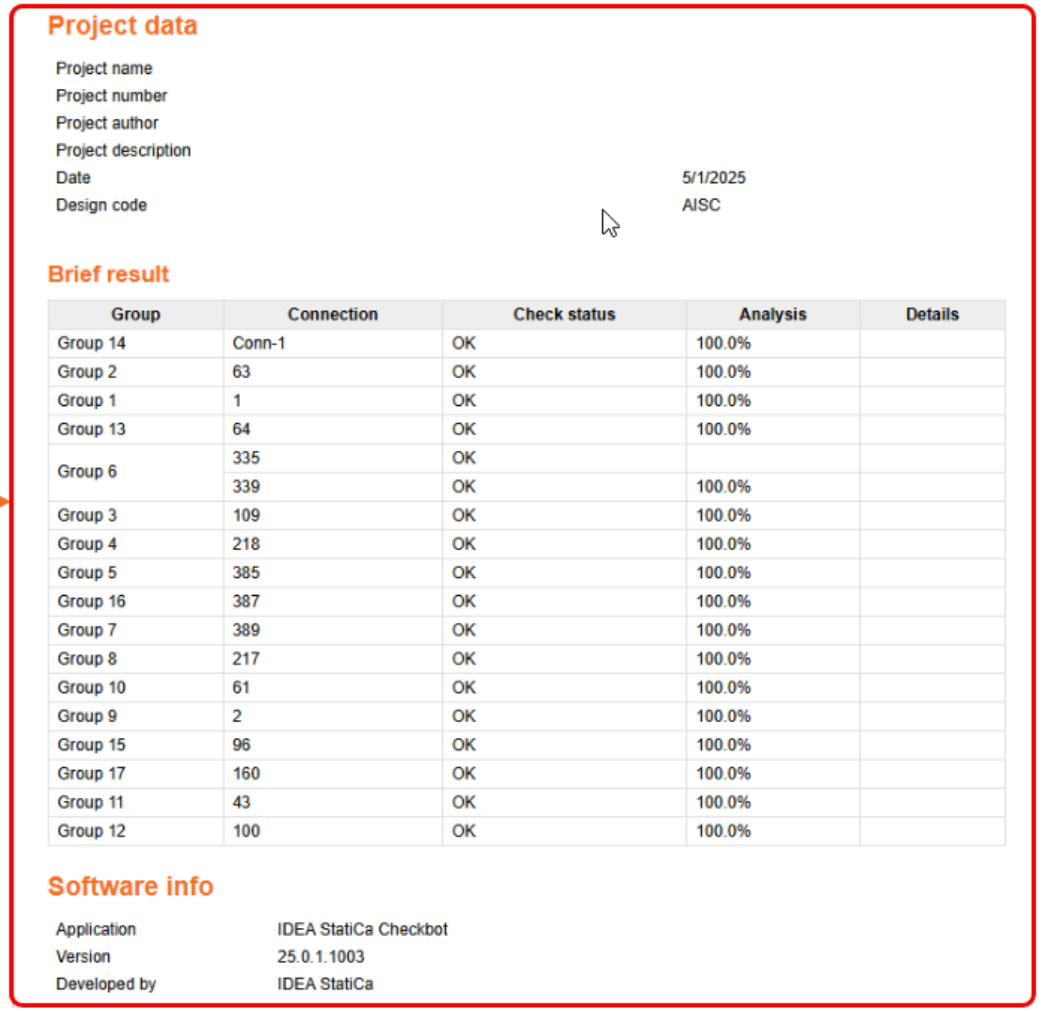
BULK REPORT

- ✓ Brief & Detailed report options
- ✓ All or selected connections in the report
- ✓ Multiple report print options





Project data

Project name
Project number
Project author
Project description
Date 5/1/2025
Design code AISC

Brief result

Group	Connection	Check status	Analysis	Details
Group 14	Conn-1	OK	100.0%	
Group 2	63	OK	100.0%	
Group 1	1	OK	100.0%	
Group 13	64	OK	100.0%	
Group 6	335	OK		
	339	OK	100.0%	
Group 3	109	OK	100.0%	
Group 4	218	OK	100.0%	
Group 5	385	OK	100.0%	
Group 16	387	OK	100.0%	
Group 7	389	OK	100.0%	
Group 8	217	OK	100.0%	
Group 10	61	OK	100.0%	
Group 9	2	OK	100.0%	
Group 15	96	OK	100.0%	
Group 17	160	OK	100.0%	
Group 11	43	OK	100.0%	
Group 12	100	OK	100.0%	

Software info

Application IDEA StatiCa Checkbot
Version 25.0.1.1003
Developed by IDEA StatiCa

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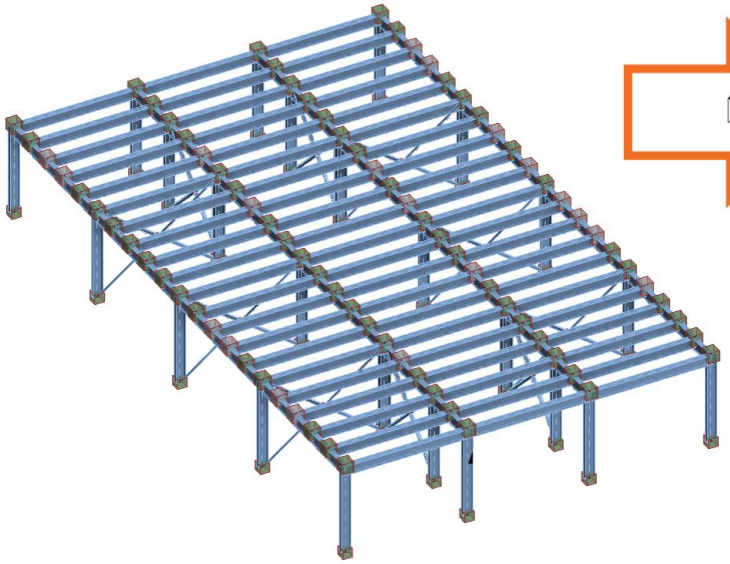
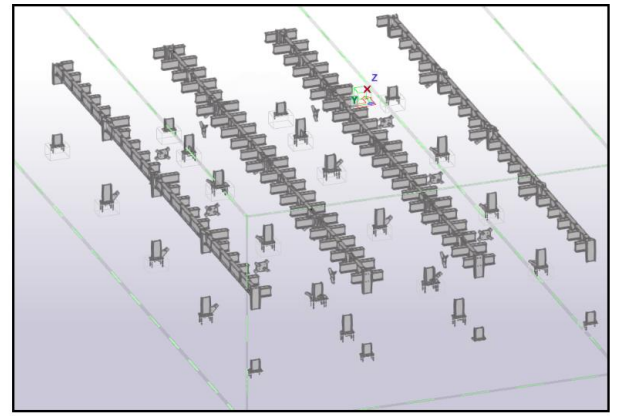
ALL CONNECTIONS TO IFC MODEL

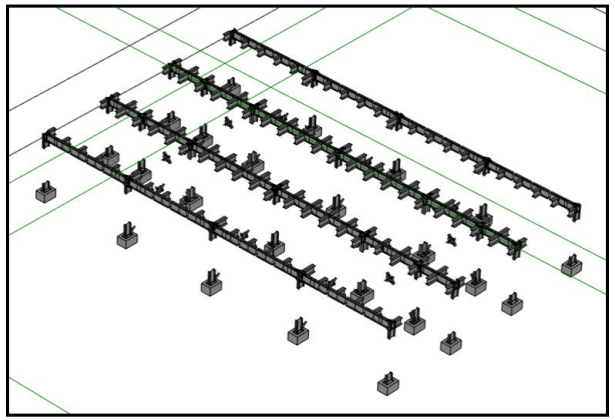
- ✓ Export all or selected connections as an IFC file
- ✓ IFC accepted import file for BIM software
- ✓ Exported connections retain original location for easier integration



Checkbot



Tekla Structures



Revit

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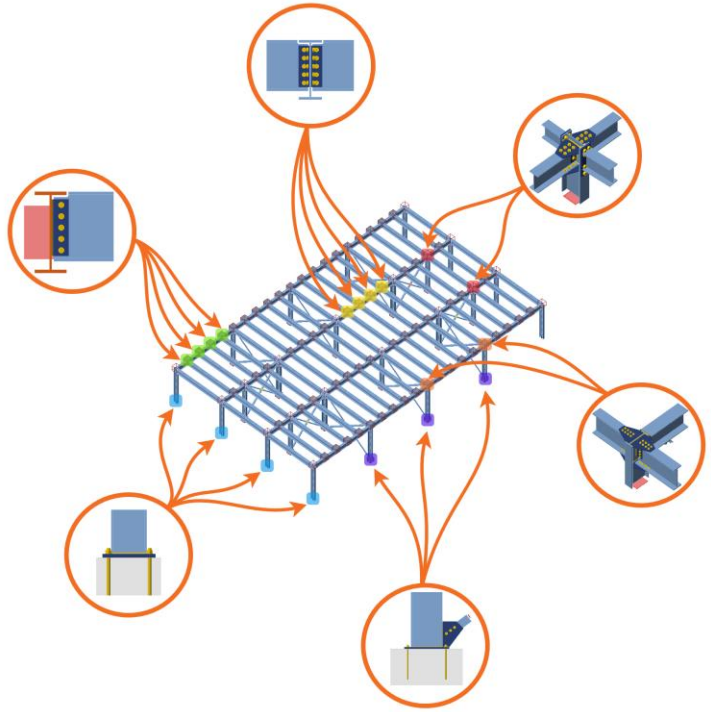
CONNECTION DESIGN TIME WITH CHECKBOT

Activity	Time by group (minutes)	#Groups	Total time (minutes)
Import structure	n/a	n/a	2
Critical load checkbox	1.5	13	19.5
Design reference connection	5	13	65
Batch design by group	2.5	13	32.5
Report reference connection only	2	13	26
Total time			**2hrs 25min**

- Project joints = 118
- Project connections = 200+



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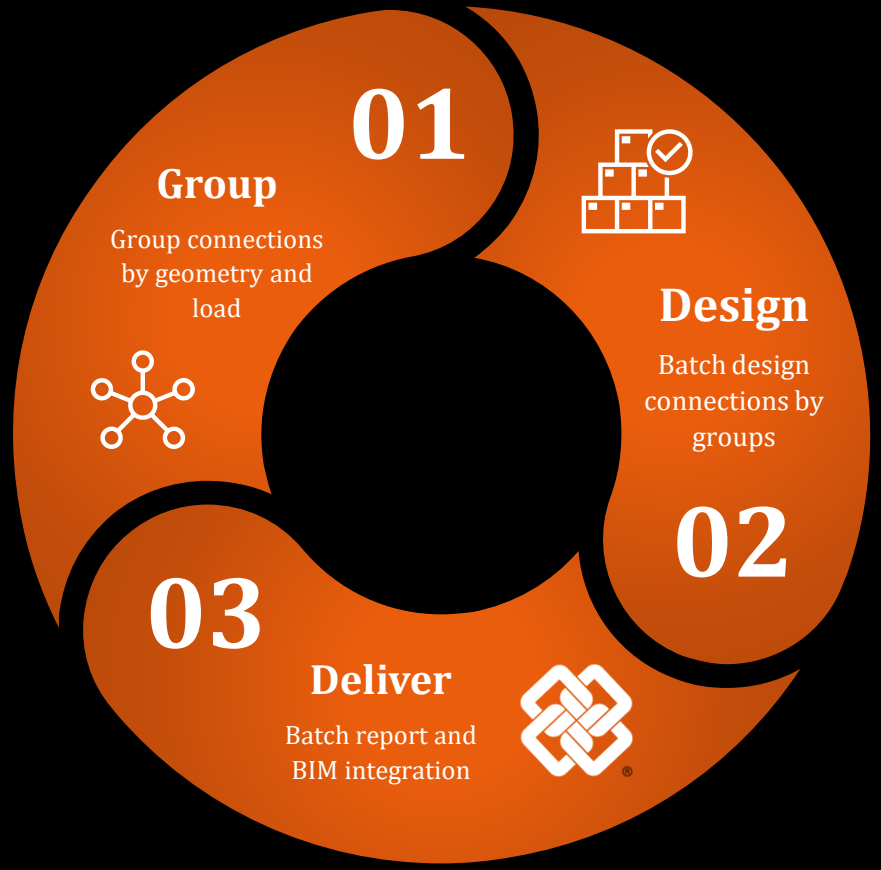
NEXT STEPS: TRY THIS WORKFLOW!

- ✓ Supported integrations
- ✓ Multi-management tools in Checkbot
- ✓ Bulk workflows and critical loads
- ✓ Free trial 14 days



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NEXT EVENTS

SEA Arizona – June 5-7

SEAoT San Antonio – June 17

SEA South Carolina – July 17

Next webinar: Concrete design Aug 27

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Q&A