Alexanderplatz

BIM-Coordination

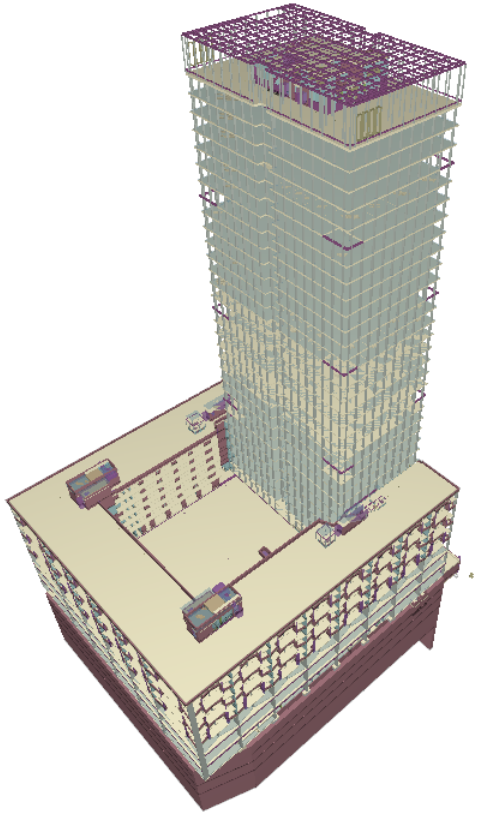
High-rise at Alexanderplatz

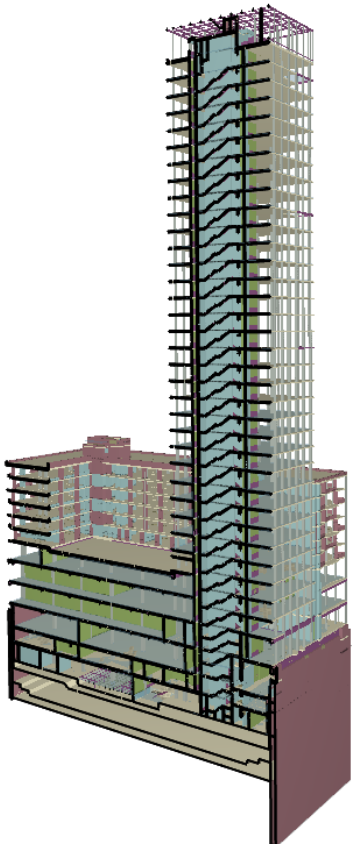


High-rise at Alexanderplatz: 32 floors + 3 underground levels

2021, LP5
For sauerbruch hutton
Client Covivio

Open BIM project
ARC: Revit + Solibri + BIM Collab
STR: Allplan + BIM Collab
MEP: Revit + Navisworks





Role: part of the structural coordination team

- Structural / architectonical coordination:
  checking, reporting, agreements, issueing in BIM-Collab

- Programming:
  Project specific Solibri rules and terminal scripts

- Schooling:
  Introduce rule-based checks vs. visual checks
  Introduction to IFC, BuildingSmart, BAP and VDI 2552
  Application of German DIN norms and praxis in IFC

ALX

BGF	90.000
BRI	250.000

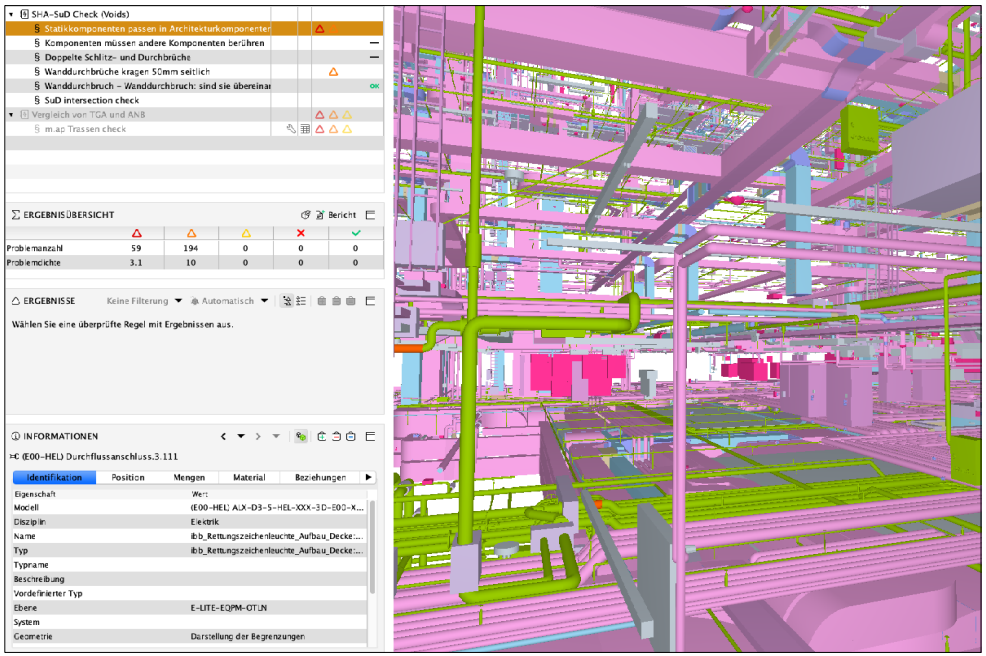
Team

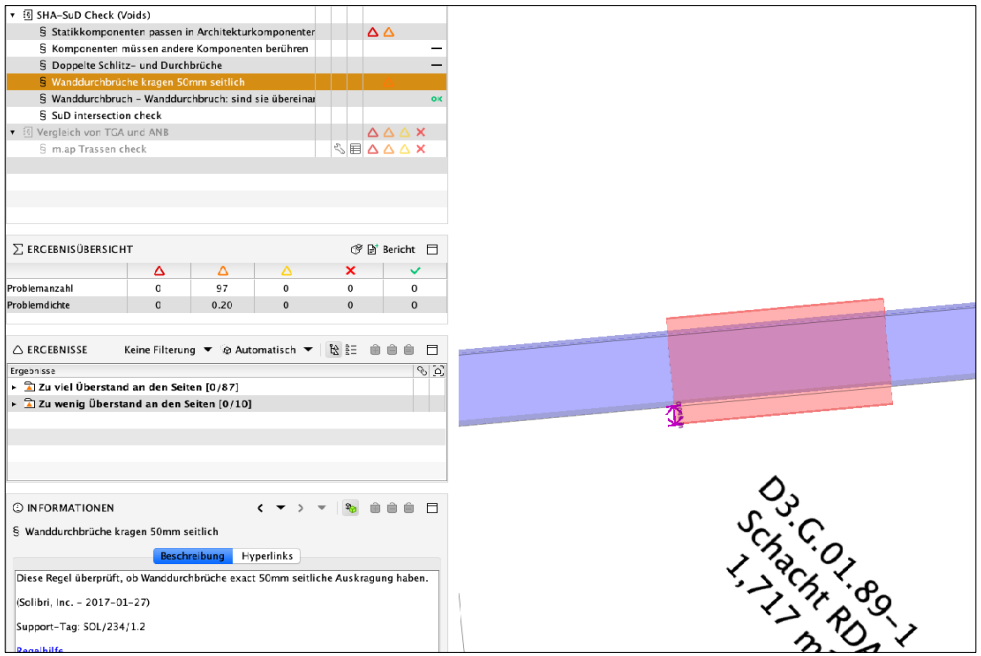
3 project directors
7-10 architects
1-3 interns

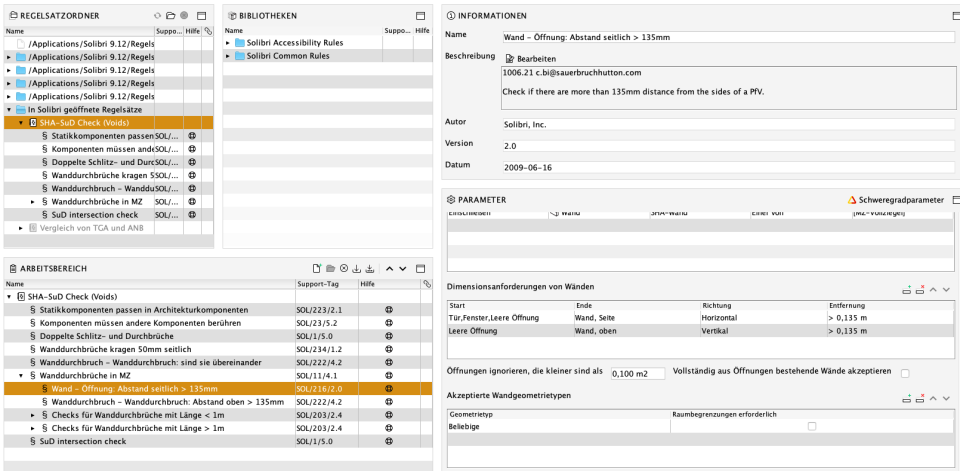
	Walls	Slabs	Stairs	Columns	Beams
H	7976	980	246	2968	1326
U	1853	151	77	181	286
	9829	**1131**	**323**	**3149**	**1612**

Model Checks and Issue Management in Solibri

STR/MEP rules:
Write rules for checking correctness of Provision for Voids (eventually according to VDI 2552-11.2)







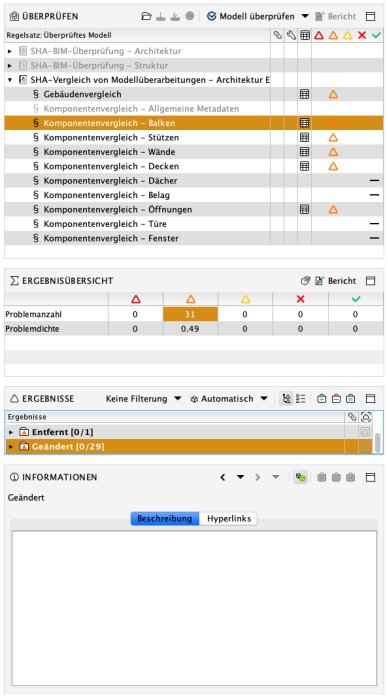
Implement project-specific MEP rules:

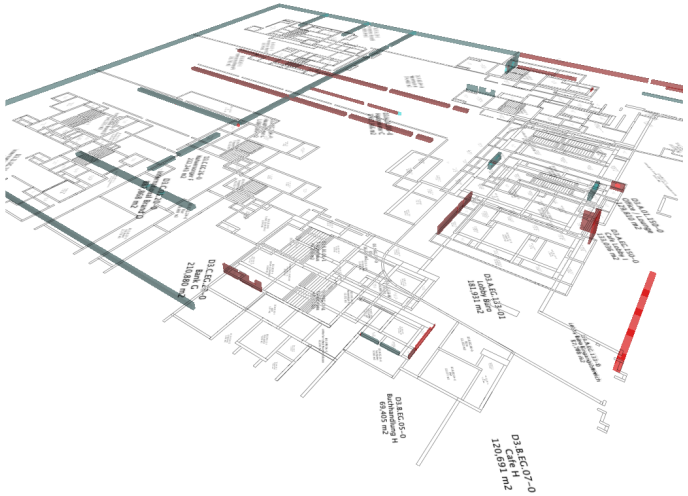
- check that PfV are at least 5cm larger than related wall
- check that PfV in brickwalls leave at least 1/2 brick over other openings
- check that PfV in brickwalls leave at least 1/2 brick at the sides
- check that PfV don't overlap
- check that PfV are in-wall / in-slab / in-beam
- check that PfV are in sync across STR / ARC models

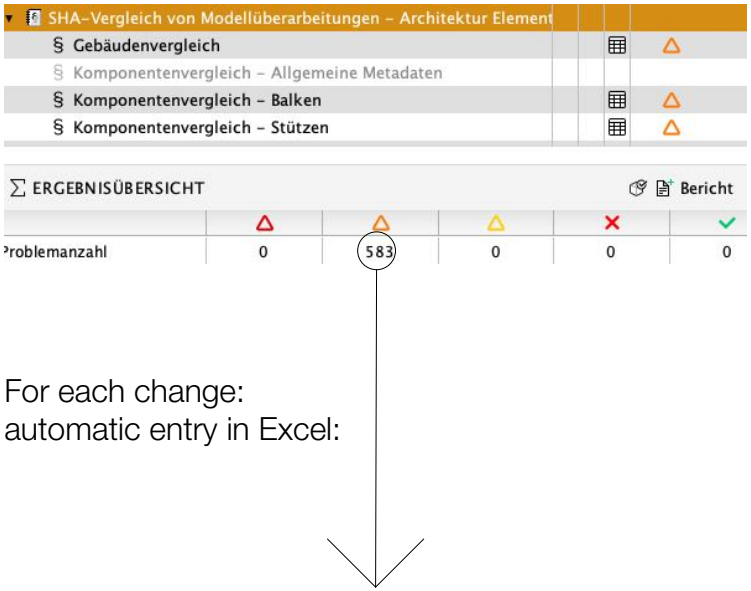
- optional check of PfV parameters (for Overall-Coordination)

Model Checks and Issue Management in Solibri

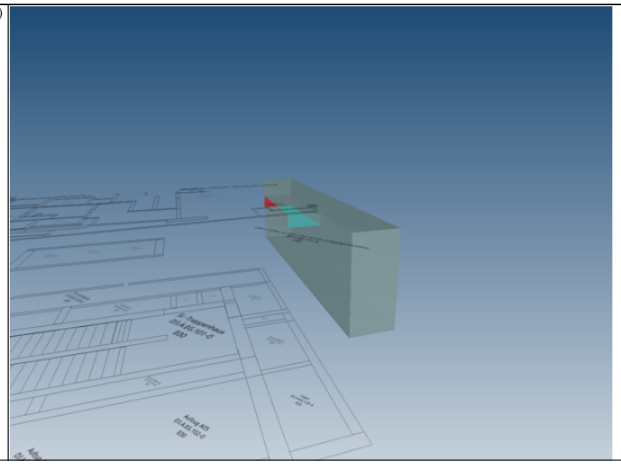
Autorun: Terminal-driven rules, here model differences' reports:
Implement Terminal scripts for checking rules and generating BCF and/or Excel reports.
Replaces revision bubbles on paper.







For each change:
automatic entry in Excel:

18	19	(P1) Balken.0.114 - (P2) Balken.0.107		(P1) Balken.0.114 - (P2) Balken.0.107 (P1) Balken.0.114 weist im Vergleich mit (P2) Balken.0.107 die folgenden Änderungen auf: - Geometrie wurde geändert - X global wurde geändert 7.308,733 m -> 7.306,230 m - Y global wurde geändert 32.585,863 m -> 32.587,530 m