SOLIBRI

September 18, 2006

Solibri Model Checker ™

New Version 4.1 Makes Your Work BIM

Solibri Model Checker™ version 4.1 introduces a quantum leap forward on Building Information Modeling analysis. The main new theme of this version is the comparison between BIM files. This covers the comparison of different versions of the same design, for example, two architectural models, analyzing of load bearing components of structural design against architectural design, or building services against architectural design.

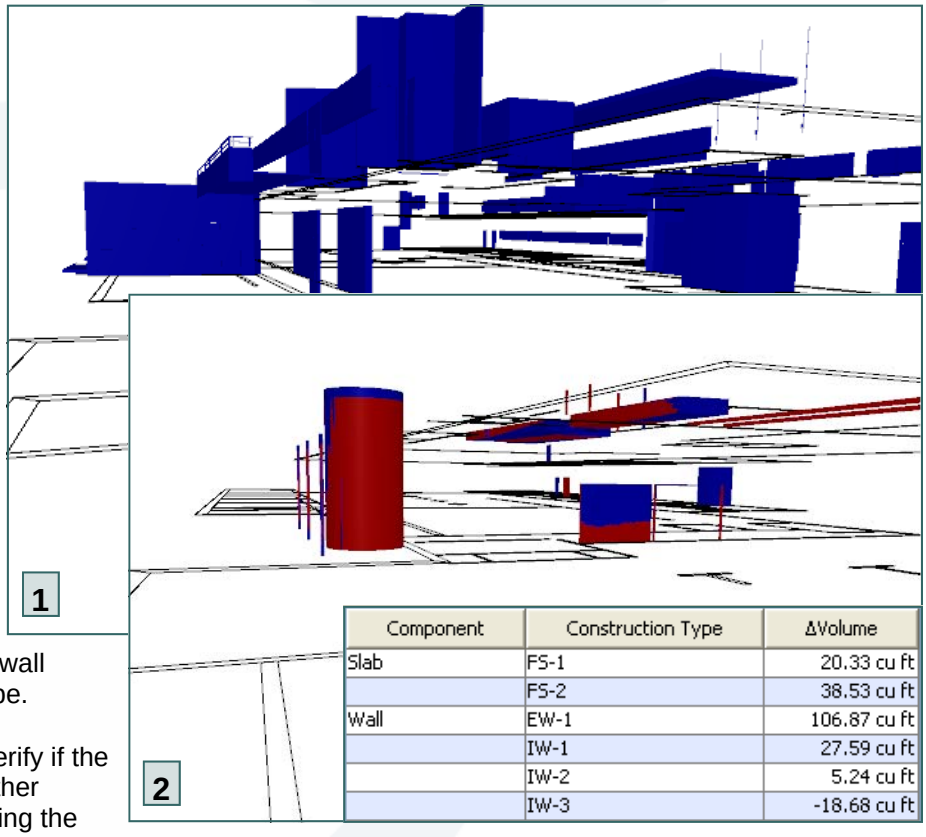
Differences Between two BIM Designs

Your BIM Authoring tool may give you a possibility to compare the models created with it. However, information you are receiving from other designers and various other applications is more difficult to manage.

SMC Version Comparison analyses two models of the same design and shows visually differences in component information. You can instantly see added, removed or modified components. Based on your selection you can focus on changes in 3D geometry or the whole information context of the components.

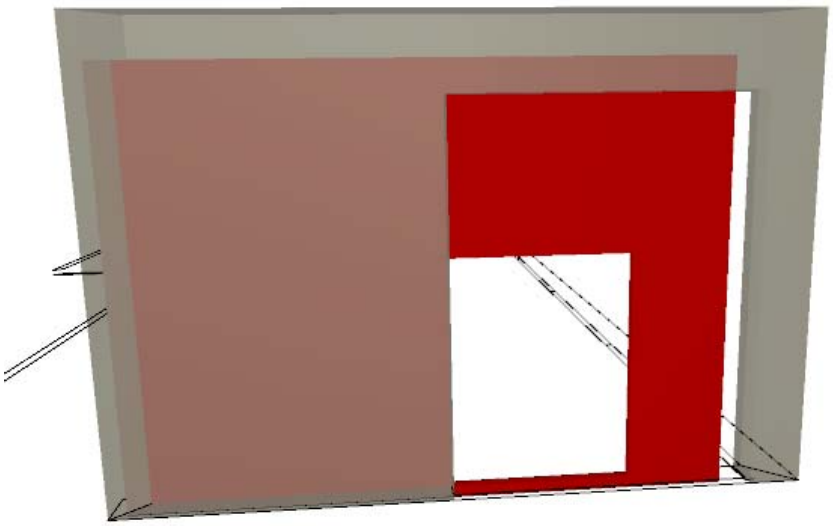
The analysis also reports changes in selected quantity information, for example, wall volume differences in 5th floor sorted by type.

These features give you the possibility to verify if the agreed modifications have been done by other designers. They also help you in documenting the changes you have yourself done between design versions.



Component	Construction Type	ΔVolume
Slab	FS-1	20.33 cu ft
	FS-2	38.53 cu ft
Wall	EW-1	106.87 cu ft
	IW-1	27.59 cu ft
	IW-2	5.24 cu ft
	IW-3	-18.68 cu ft

Pictures show added (1) and modified (2) components.
Table below shows changes in quantities



Highlighted Wall (red) is from Structural model as the transparent wall is from Architectural model

Compare Structural Model Against Architectural Model

Load bearing walls in architectural design should have counterparts in structural design occupying the same space. In some cases “load bearing wall” requirement is solved with Columns and Beams and a light structured Wall.

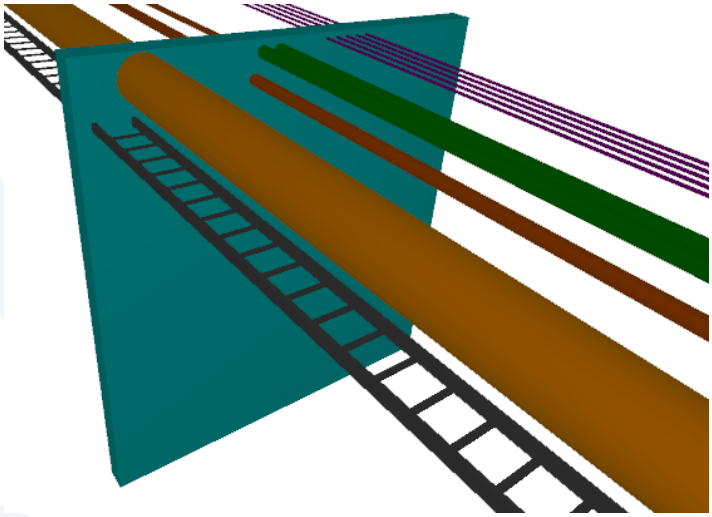
The new advanced algorithms of Solibri Model Checker will automatically (out of the box) report cases where these counterparts don’t fill the set requirements.

Building Services vs. Structural Model

Solibri Model Checker version 4.1 shows how building services systems are punching a load bearing wall.

Using Solibri's innovative Automated Issue Navigator the components with problems can be easily located and visualized. Building services systems have all their own color schemes that are used to identify air conditioning, plumbing, heating, and electrical systems.

Based on the information in BIM file SMC knows the design disciplines and the purpose of components. SMC spots all problems and categorizes them based on severity.



Since there are no holes in this precast wall this may be a problem that should be fixed

And More New Features

Solibri Model Checker Version 4.1 provides the following major features:

- Model Comparison Analysis
- Conformity between Architectural and Structural models including reasoning for walls and slabs modeled with beams and columns in structural model
- Report layout of RTF and PDF reports optimized for better readability and reduced length
- Report tables generated by rules can now be excluded from RTF and PDF reports
- The behavior of severity icons is modified to indicate more clearly the status of the decisions made by user
- Viewpoints and comments can now be added to all issue levels including the single components
- Multi-selection of issue items is now possible to view several issues at the same
- Support for IFC Element Quantities. This enables viewing all extended properties in IFC files
- New color schemes for Architectural and Structural domains

The update mechanism first introduced with version 4.0 makes it easy to upgrade to new versions and maintenance releases Solibri delivers from time to time.

Solibri, Inc.

Solibri was established in 1999 to develop and market solutions that improve the quality of Building Information Models and make the entire design process more productive. Our customer base contains a growing number of building owners and users, construction companies, architects, and engineering firms world wide.

Solibri Model Checker™

Solibri Model Checker is out of the box software solution that analyzes Building Information Models for integrity, quality, and physical security. The system offers easy-to-use visualization through a high performance Virtual Reality model with an intuitive walk-in functionality. Solibri Model Checker X-rays the building model and reveals potential flaws and weaknesses in the design, highlights the clashing components and checks that the model complies with the building codes and organization's own best practices.

Solibri Model Checker is used extensively to review and approve BIM delivery and design coordination. Furthermore, it helps the user to extract information from BIM to downstream applications such as quantity and cost calculation.

Contact us to find out how we can help your organization adopt BIM faster and achieve a higher return on investment.

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