FRILO
A NEMETSCHEK COMPANY

BIM-Connector –
More time for the essential

To accompany you in your daily work and to support you with innovative solutions is our goal as FRILO. In the context of networked building planning, we are now setting new standards with the BIM-Connector and offer you a solution for optimized project work.

The Challenge

Architects, specialist engineers, building contractors - the number of people involved in a construction process is large. Cumbersome ways of communication, constant planning changes and time pressure in intensive project phases put a strain on the everyday work of many civil engineers.

How can they find time and concentration to focus on their actual work?

Building data modeling, better known as BIM (Building Information Modeling), is one of the key factors in networked building planning and is expected to optimize the workflow among project participants in the future.

The BIM-Connector provides you and your team with a networked, efficient and economical planning process that accompanies and supports you in your daily work.

The solution: BIM-Connector

If you are a structural engineer, the BIM-Connector supports you in using the BIM method profitably in your daily work. You can minimize the effort of geometry acquisition. This saves time and optimizes the quality in your work process at the same time.

The BIM-Connector provides the following benefits:
- Considerable time saving
- Optimized workflow
- Faster communication between project participants
- High quality projects
- Avoidance of manual transmission errors
- Fast response to changes
- A stronger focus on your actual work: structural analysis and design

This is what the BIM-Connector can do for You

The BIM-Connector allows you to read in IFC and SAF files. The building data is then imported, processed and presented to you as a 3D building representation with additional property data. This offers you the possibility to display the imported files as a physical model and then as an analysis model. Thus, typical problem points, which result from the derivation of the physical model to the analysis model, can be solved with a mouse click. Gravity lines of components, which have not met before, intersect afterwards.

The BIM-Connector saves you the monotonous and time-consuming task of creating the building model by defining its individual parts. It also eliminates manual transmission errors and prevents data loss. Thus you receive a high-quality analysis model. This gives you more time to use your engineering expertise as an engineer in the actual structural calculation and design.
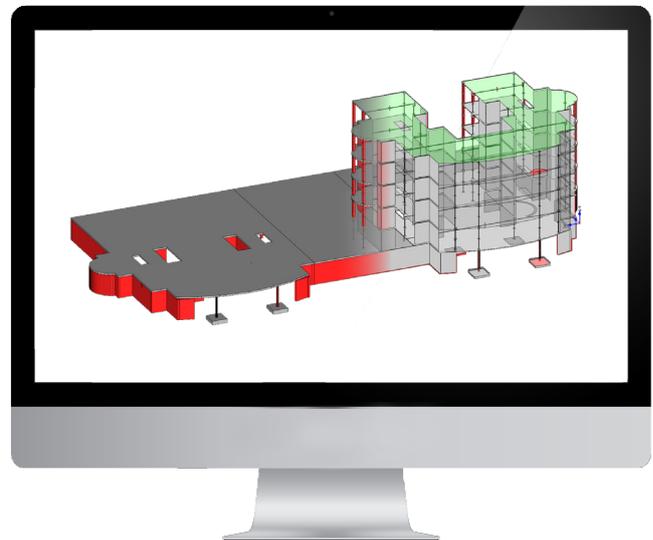
Status Quo

In the current version of the BIM-Connector, you can call up the FRILO programs **Plates by Finite Elements PLT**, **Reinforced Concrete Column B5+** as well as the **Building Model GEO**.

The graphic-oriented **PLT program** is used to calculate plate structures with complex supporting conditions or load diagrams. The BIM-Connector allows you to select individual components. For example, a floor slab can be selected and then exported directly to the PLT program. Manual post-processing of the analysis model is possible at any time. After the load input, you can immediately carry out the plate design.

With the interface to the **Building Model GEO**, the complete building can now also be transferred. This means that all the interfaces available in GEO to the individual design programs are also available for a comprehensive BIM workflow:

- Slabs with PLT
- Columns with B5+, STS+, HO1+
- Punching Shear Analysis B6+
- Beams with DLT

Workflow

IFC/SAF-files

BIM-Connector

Physical Model

Analysis Model

Export into FRILO-Programms
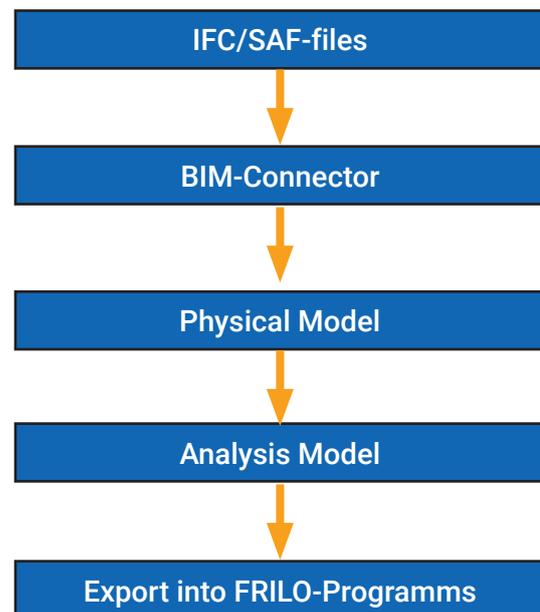
- Foundations FD+, FDS+, FDR+ and BEB+
- Soil Settlement SBR+
- Walls with MWM+, MWX+ and SCN

The Future

With the next versions of your FRILO solution you will receive additional interfaces to FRILO programs.