PROFIS ENGINEERING & CHECKBOT

"THE NEW STRUCTURAL ENGINEERING END-TO-END WORKFLOW STANDARD"

Revolutionizing Structural Engineering: The Power of PROFIS Engineering's Integration with Checkbot

Hilti Group and IDEA StatiCa, global leaders in steel-to-concrete and steel-to-steel structural connections respectively, have partnered to introduce a new plugin to enhance the standard design, calculation, and construction workflow for all types of projects. The integration of Hilti Group's PROFIS Engineering Suite with IDEA StatiCa's Checkbot improves accuracy, safety, and efficiency in the construction industry. PROFIS Engineering Suite, which has a presence in over 70 countries, allows the design and calculation of various structural connections under a range of conditions. It provides the latest anchor approvals, a variety of design methods, and a comprehensive calculation report.

Checkbot simplifies communication from various structural design and BIM software by allowing the import of thousands of connections with their loads and geometries, where you can check all important information in each of these connections before exporting them to PROFIS Engineering Suite or other software developed by IDEA Statica. This ensures that all information is correctly and quickly mapped across the end-to-end design and calculation workflow.

This integration brings several benefits, including time saving and simplification, easier organization, better collaboration, and increased accuracy and quality. By setting a new standard for the structural engineering and construction end-to-end workflow, this empowers engineers to take their projects to the next levels in terms of quality, efficiency, and precision while providing peace of mind. By adopting this unified approach, structural engineers are well-prepared for the challenges the industry currently faces as well as those that will come.

Follow the guides below to learn how to get started. If you own:

- Tekla Structures, Revit, Advance Steel, Robot, SCIA Engineer, SDS2, STAAD.PRO, AxisVM, RFEM 5 and RSTAB 8, click here.
- RFEM 6 and RSTAB 9, click here.
- SAP 2000 and ETABS, click here.
- RISA-3D and RAM Structural Systems, click here.

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Category 1: Automated integration

Software supported by this installation procedure: Advance Steel, AxisVM, Revit, Robot, RFEM 5, RSTAB 8, SCIA Engineer, SDS2, STAAD.PRO, Tekla Structures. The following list is supported directly by the companies developing these software: Tekla Structural Designer, FEM-Design, SPACE GASS, Diamonds/BIM Expert, STRAP and Straus 7

The IDEA StatiCa BIM link installer automatically launches after the installation of any IDEA StatiCa software and can also be accessed manually from IDEA StatiCa's main interface. It locates all structural design and BIM software packages on your machine. Once integrated, IDEA StatiCa Checkbot is available through the FEA/BIM partner application, enabling the seamless export of baseplate data to PROFIS Engineering.

Before you start: Ensure you are registered with us (here), after registration you can enjoy all the benefits of premium for 30-days including Checkbot, after finalizing this period, you can purchase a PROFIS Engineering Premium License. Confirm that your required FEA/BIM software is installed and up to date, only the two latest versions are supported. Then follow these steps:

1. **Download and Account Setup:** If you are not an existing IDEA StatiCa user, Create an account (here) and download their latest suite version (here). You will be able to still access Checkbot for free after the 14-days trial. After your 14-days trial, you will be able to access Checkbot for free.

2. **Installation:** Install the suite as an administrator. The required plugin to connect with PROFIS Engineering is included in the download package.

3. **BIM Link Activation:** During installation, you will be prompted to "Activate your BIM links." Ensure this step is completed successfully.

4. **Finalizing Installation:** Click "Install." Once the installation is complete and displays green, you will find a new tab in your FEA/BIM software for exporting to Checkbot.

5. **Exporting Data:** Once the file is imported to Checkbot, under the "Hilti PROFIS" tab, click the red logo of PROFIS Engineering to transfer your data and start designing your connection.

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Category 2: Automated external integration

Software supported by this installation procedure: RFEM 6, RSTAB 9.

The IDEA StatiCa BIM link installer automatically launches after the installation of any IDEA software andcan also be accessed manually from IDEA StatiCa's main interface. It will locate all structural design and BIM software packages on your machine. The BIM link to Checkbot is NOT available in the partner application user interface. It is a separate executable file that you can find on your desktop and needs to be run every time a user wants to proceed with an export.

Before you start: Ensure you are registered with us (here), after registration you can enjoy all the benefits of premium for 30-days including Checkbot, after finalizing this period, you can purchase a PROFIS Engineering Premium License. Confirm that your required FEA/BIM software is installed and up to date, only the two latest versions are supported. Then follow these steps:

1. **Download and Account Setup:** If you are not an existing IDEA StatiCa user, Create an account (here) and download their latest suite version (here). You will be able to still access Checkbot for free after the 14-days trial. After your 14-days trial, you will be able to access Checkbot for free.

2. **Installation:** Install the suite as an administrator. The required plugin to connect with PROFIS Engineering is included in the download package.

3. **BIM Link Activation:** During installation, you will be prompted to "Activate your BIM links." Ensure this step is completed successfully.

4. **Finalizing Installation:** Click "Install." Once the installation is complete and displays green, you will find a new shortcut icon on your desktop for exporting to Checkbot.Ensure you open the software and navigate to the menu "Options and Program", then activate the WebService as part of your Dlubal package to enable data transfer.

5. **Exporting Data:** Once the file is imported to Checkbot, under the "Hilti PROFIS" tab, click the red logo of PROFIS Engineering to transfer your data and start designing your connection.

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Category 3 : Manual integration

Software supported by this installation procedure: ETABS and SAP2000.

IDEA StatiCa Checkbot is integrated manually according to a step-by-step tutorial. Instructions are accessible through a URL in the BIM link installer, via IDEA StatiCa's web pages, or by following the steps below.

Before you start: Ensure you are registered with us (here), after registration you can enjoy all the benefits of premium for 30-days including Checkbot, after finalizing this period, you can purchase a PROFIS Engineering Premium License. Confirm that your required FEA/BIM software is installed and up to date, only the two latest versions are supported. Then follow these steps:

1. **Download and Account Setup:** If you are not an existing IDEA StatiCa user, Create an account (here) and download their latest suite version (here). You will be able to still access Checkbot for free after the 14-days trial. After your 14-days trial, you will be able to access Checkbot for free.

2. **Installation:** Install the suite as an administrator. The required plugin to connect with PROFIS Engineering is included in the download package.

3. **BIM Link Activation:** During installation, you will be prompted to "Activate your BIM links." Ensure this step is completed successfully.

4. **Finalizing Installation:** Click "Please install our add-in for your SAP2000 (here), ETABS (here)", and follow the activation guideline provided by our partners from IDEA StatiCa.

6. **Exporting Data:** Once the file is imported to Checkbot, under the "Hilti PROFIS" tab, click the red logo of PROFIS Engineering to transfer your data and start designing your connection.

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Category 4: File based

Software supported by this installation procedure: RAM Structural System and RISA-3D.

File-based import to IDEA Checkbot. There is no direct communication between IDEA Checkbot and the partner application.

Before you start: Ensure you are registered with us (here),after registration you can enjoy all the benefits of premium for 30-days including Checkbot, after finalizing this period, you can purchase a PROFIS Engineering Premium License. Confirm that your required FEA/BIM software is installed and up to date, only the two latest versions are supported. Then follow these steps:

1. **Download and Account Setup:** If you are not an existing IDEA StatiCa user, Create an account (here) and download their latest suite version (here). You will be able to still access Checkbot for free after the 14-days trial. After your 14-days trial, you will be able to access Checkbot for free.

2. **Installation:** Install the suite as an administrator. The required plugin to connect with PROFIS Engineering is included in the download package.

3. **Finalizing Installation:** Follow the workflow using these links: RISA-3D (here) and RAM Structural Systems (here).

4. **Exporting Data:** Once the file is imported to Checkbot, under the "Hilti PROFIS" tab, click the red logo of PROFIS Engineering to transfer your data and start designing your connection.

LIST OF ALL FEA AND CAD SOFTWARE SUPPORTED BY CHECKBOT

Software	Vendor	Type
Tekla Structures	Trimble	CAD
Autodesk Revit	Autodesk	FEA/CAD
Autodesk Advanced Steel	Autodesk	CAD
Autodesk Robot	Autodesk	FEA
ETABS	Csi	FEA
SAP2000	Csi	FEA
SCIA Engineer	Nemetschek	FEA
SDS2	Allplan	CAD
STAAD.Pro	Bentley	FEA
AxisVM	Inter-CAD kft	FEA
RFEM 5	Dlubal	FEA
RFEM 6	Dlubal	FEA
RSTAB 8	Dlubal	FEA
RSTAB 9	Dlubal	FEA
RAM Structural System	Bentley	FEA
RISA	RISA Tech	FEA
Sofistik (SAF)	Sofistik	FEA
Tekla Structural Designer	Trimble	FEA
FEM-Design	StruSoft	FEA
SPACE GASS	SPACE GASS	FEA
Diamonds / BIM Expert	BuildSoft	FEA/CAD
STRAP	Atir Engineering	FEA
Straus 7	EnginSoft	FEA

FEA: Finite Element Analysis or Structural Software

CAD: BIM Software

Note: Data from software not included in the list can be uploaded directly to Checkbot via a *.saf file

THANK YOU

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