X-BIM CAD Browser
Short Manual
TROX components, X-CUBE air handling units and X-FANS

Version 1.09.00 (24.08.2021)

Agenda

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- Installation and Update.....[S.6 – S.11]
- Use of the X-BIM CAD Browsers
  - Basic functions and strategies of use.....[S.12 – S.16]
  - Configuring and importing TROX components.....[S.17 – S.22]
  - EPF projects as a basis for BIM data .....[S.23 – S.28]
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Introduction and overview

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X-BIM CAD Browser…

…has been developed in order to make designing safer and easier for you. 3D modeling was used in many engineering departments even before BIM.
No expert design is possible without product data from manufacturers. X-BIM CAD Browser allows you to use specific TROX components, TROX air handling units and TROX X-FANS with your Revit or AutoCAD application. Moreover you can use the X-BIM CAD Browser very easily to create formats such as DWG, DXF, and IFC. This makes three-dimensional planning with TROX products possible with almost all model-based planning tools.

The X-BIM CAD Browser principle

TROX TECHNIK
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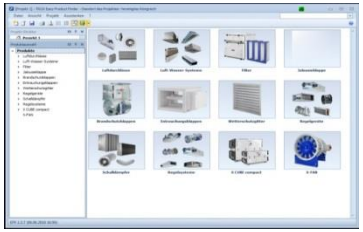
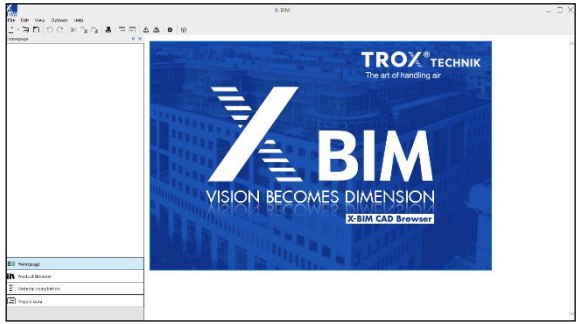
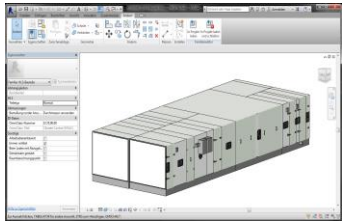
TROX data source

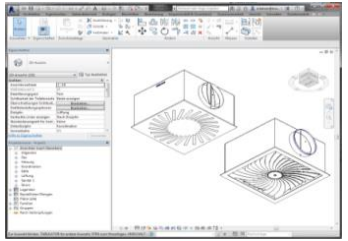


X-BIM CAD Browser



Design software





Installation and Update

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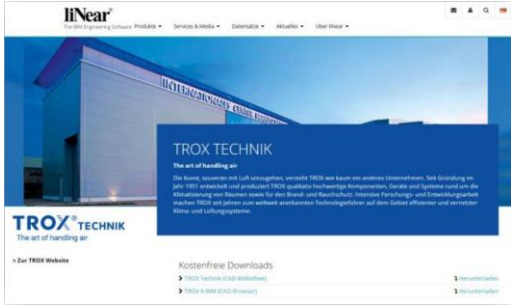
General installation and update notes

Before installing an update, the already installed X-BIM CAD Browser must be closed.

The free installation file of the X-BIM CAD Browser can be found in the BIM section of the TROX homepage as well as on the website of liNear (www.linear.eu) in the Data sets - TROX section.

After installing or updating the X-BIM CAD Browser, please also restart the Revit or AutoCAD application once to ensure clean recognition and linking of the applications.



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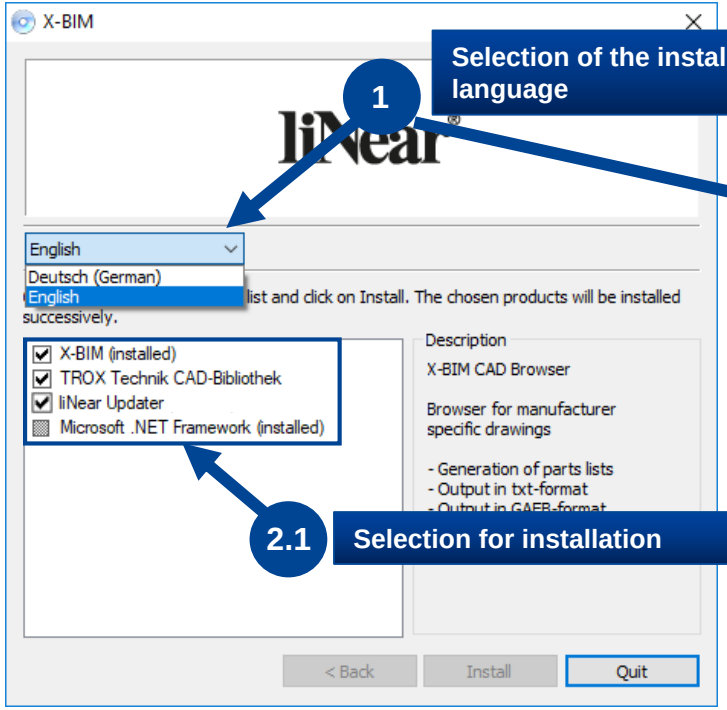
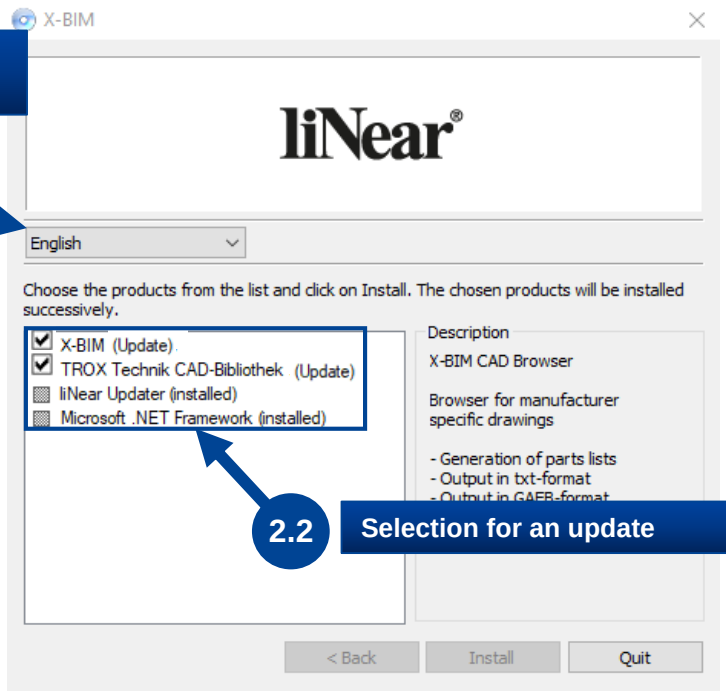
First installation



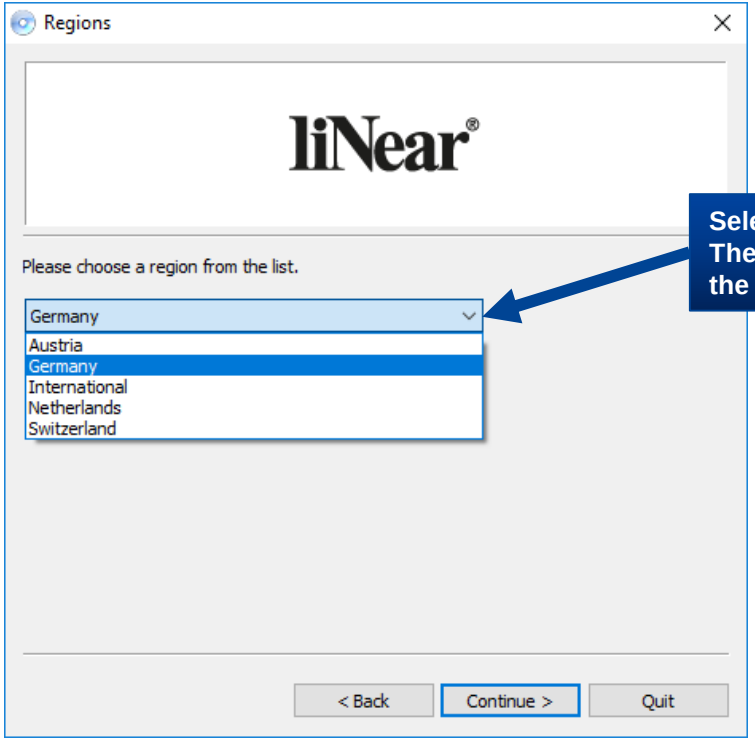
1 Selection of the installation language

2.1 Selection for installation

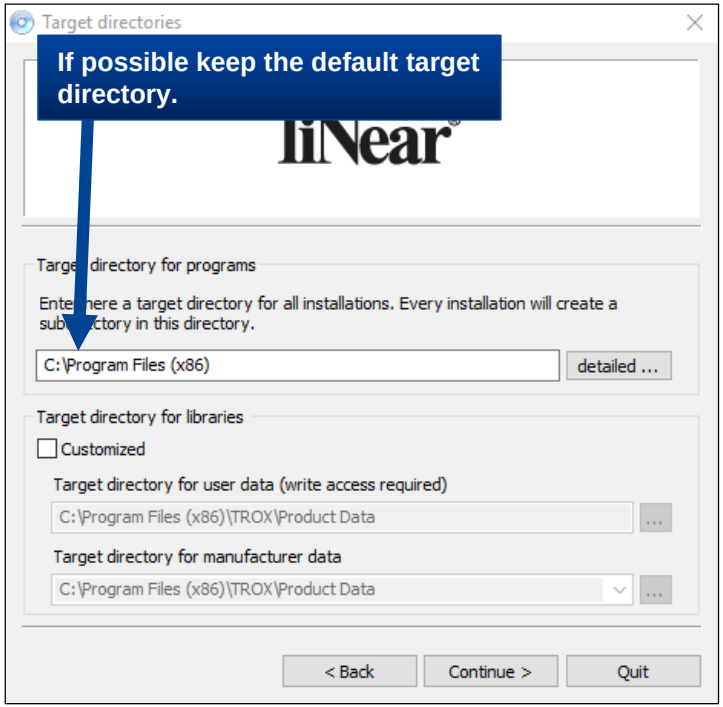
Update

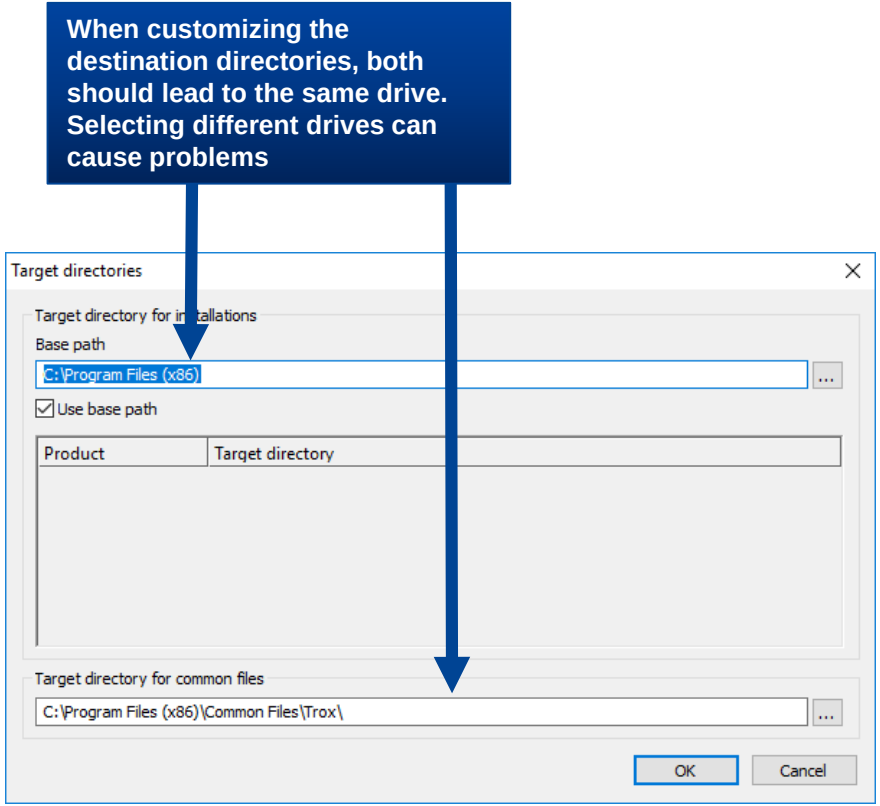


2.2 Selection for an update



Selection of the location.
The selection has an effect on the availability of products.


Target directories
If possible keep the default target directory.
liNear
Target directory for programs
Enter here a target directory for all installations. Every installation will create a sub directory in this directory.
C:\Program Files (x86)
detailed ...
Target directory for libraries
Customized
Target directory for user data (write access required)
C:\Program Files (x86)\TROX\Product Data
Target directory for manufacturer data
C:\Program Files (x86)\TROX\Product Data
< Back
Continue >
Quit


When customizing the destination directories, both should lead to the same drive. Selecting different drives can cause problems
Target directories
Target directory for installations
Base path
C:\Program Files (x86)
Use base path
Product
Target directory
Target directory for common files
C:\Program Files (x86)\Common Files\Trox\
OK
Cancel

Note

- After installation, the computer should be restarted,
  to establish a connection between Revit / AutoCAD and the X-BIM CAD Browser.

- If a restart is not possible at that moment, at least a restart of Revit or AutoCAD must be done to enable an interchange of data between the applications.

- At the first time you start Revit / AutoCAD after installing the X-BIM CAD browser, you will be asked to allow a connection of this liNear application for Revit. You must confirm this request to be able to use the X-BIM CAD Browser together with your CAD software. If you refuse here, it is not possible to use the transfer function of BIM files from the X-BIM CAD Browser to your application.

Basic functions and strategies of use

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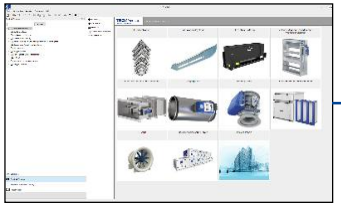
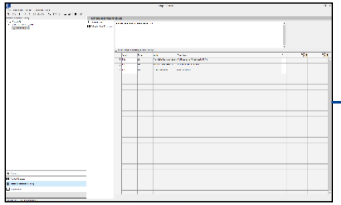
Basic functions

Starting screen

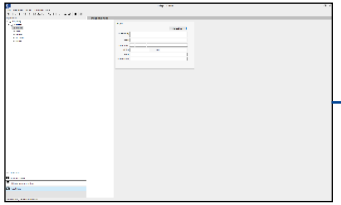
Product selection

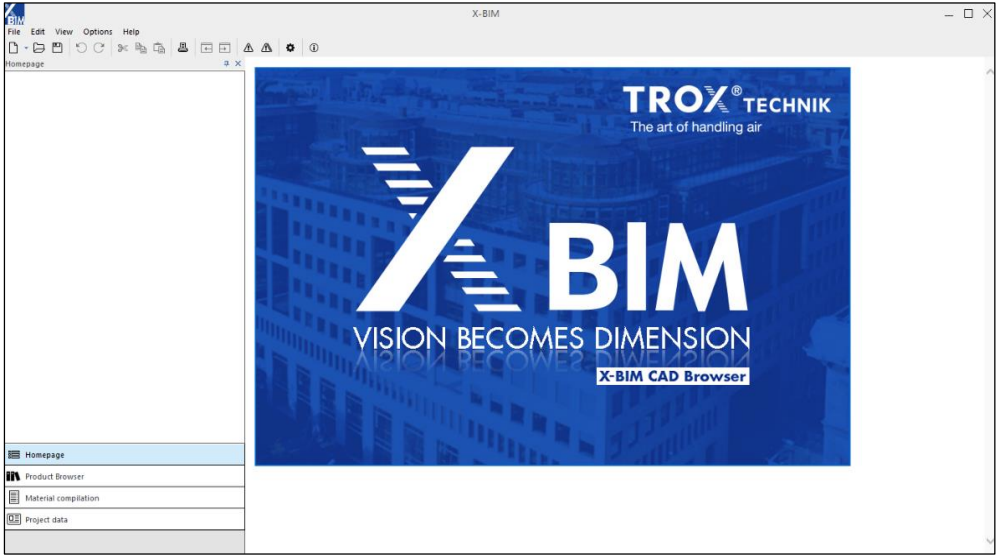


Bill of material

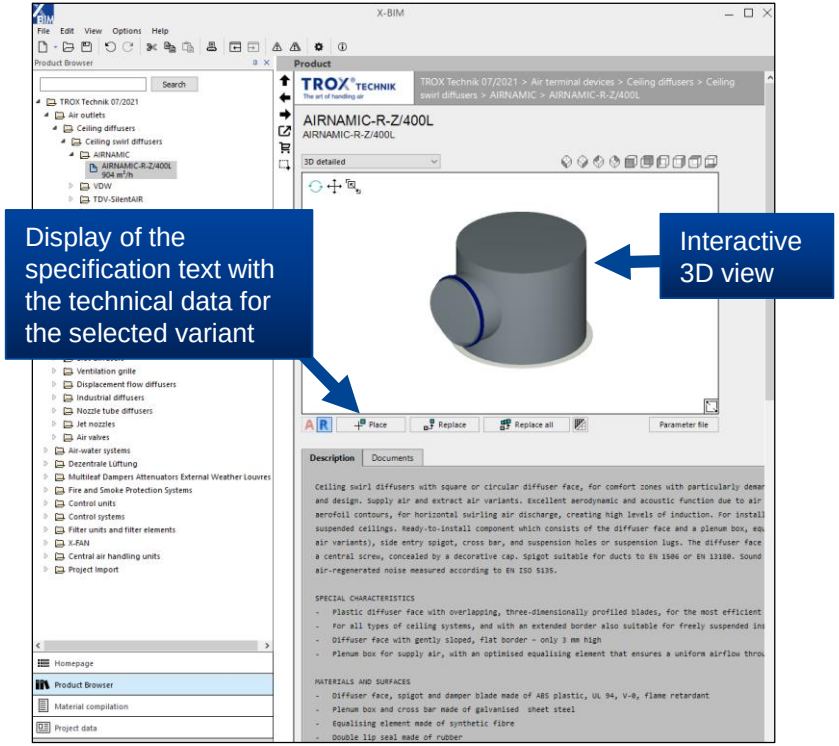


Project data

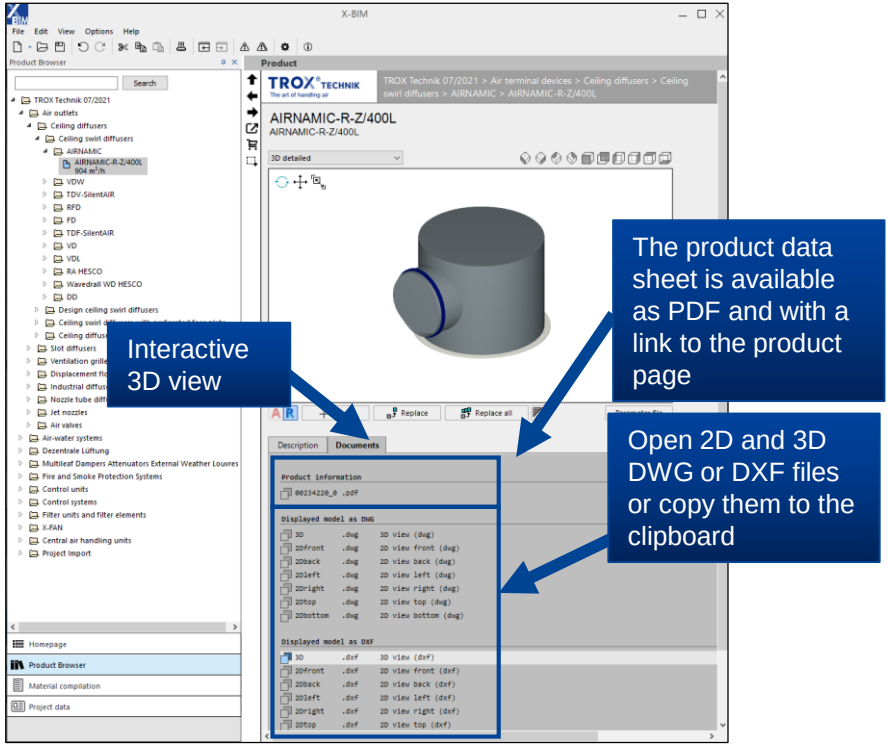




Specification text



DWG/DXF/IFC + product data sheet



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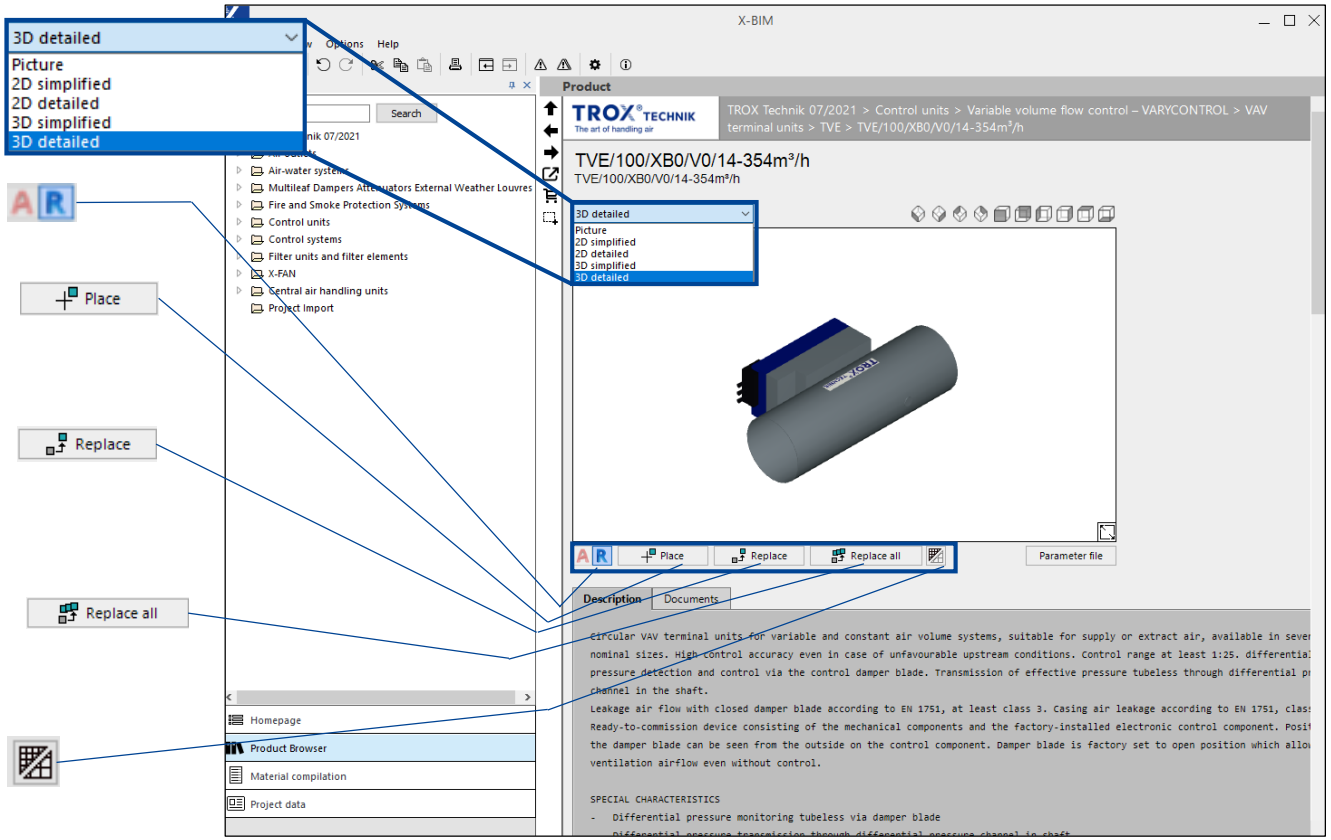
- Selection of the display options of the product (2D/3D LOD)
- Selection of the transfer to Revit or AutoCAD
- Component can be placed in CAD program
- Replaces an existing product (in the planning application) with the current product from the X-BIM CAD Browser.
- Replaces all the same products (in the planning application) with the current product from the X-BIM CAD browser
- Only the simplified geometry is transferred to Revit/AutoCAD if activated.

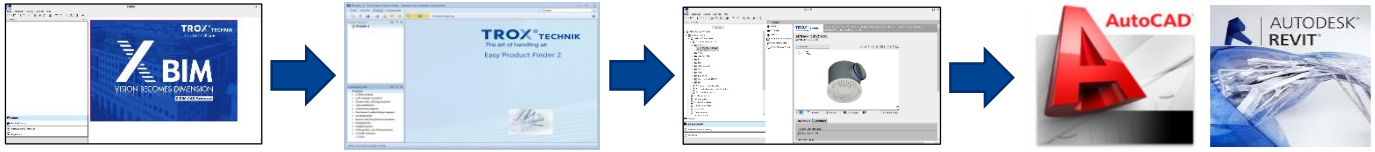


Strategies of use

1. Configure specific products on demand

→ Selecting and configuring the single product variant with the X-BIM CAD Browser (embedded EPF)

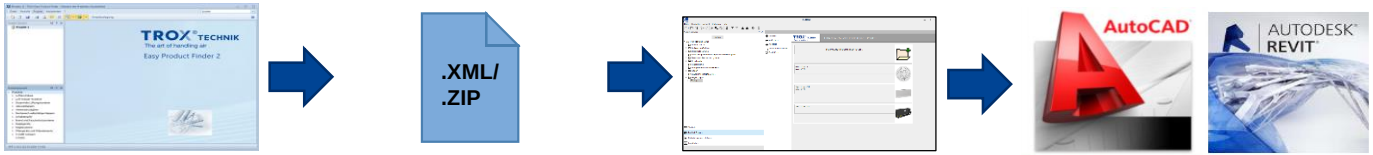
→ Adding the product to the 3D - planning



2. Importing a product or pre-configured X-BIM file from EPF Project or other TROX configurators

→ Import of the product file or EPF project file (xml) into X-BIM CAD Browser

→ Adding the products to the 3D - planning



Configuring and importing TROX components

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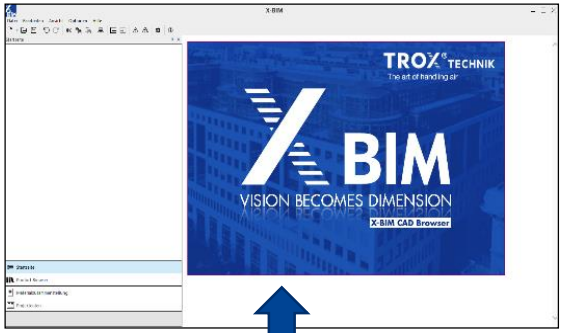
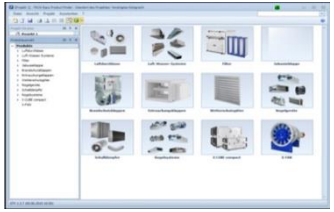
TROX Components → Selection on Demand

X-BIM CAD Browser

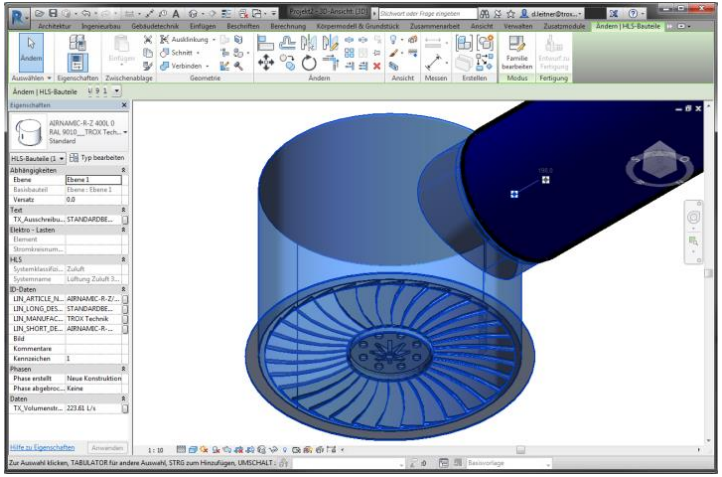


Embedded TROX EPF



Alternatively generation of geometry data in DXF, DWG and IFC formats

Planning software based on Revit or AutoCAD



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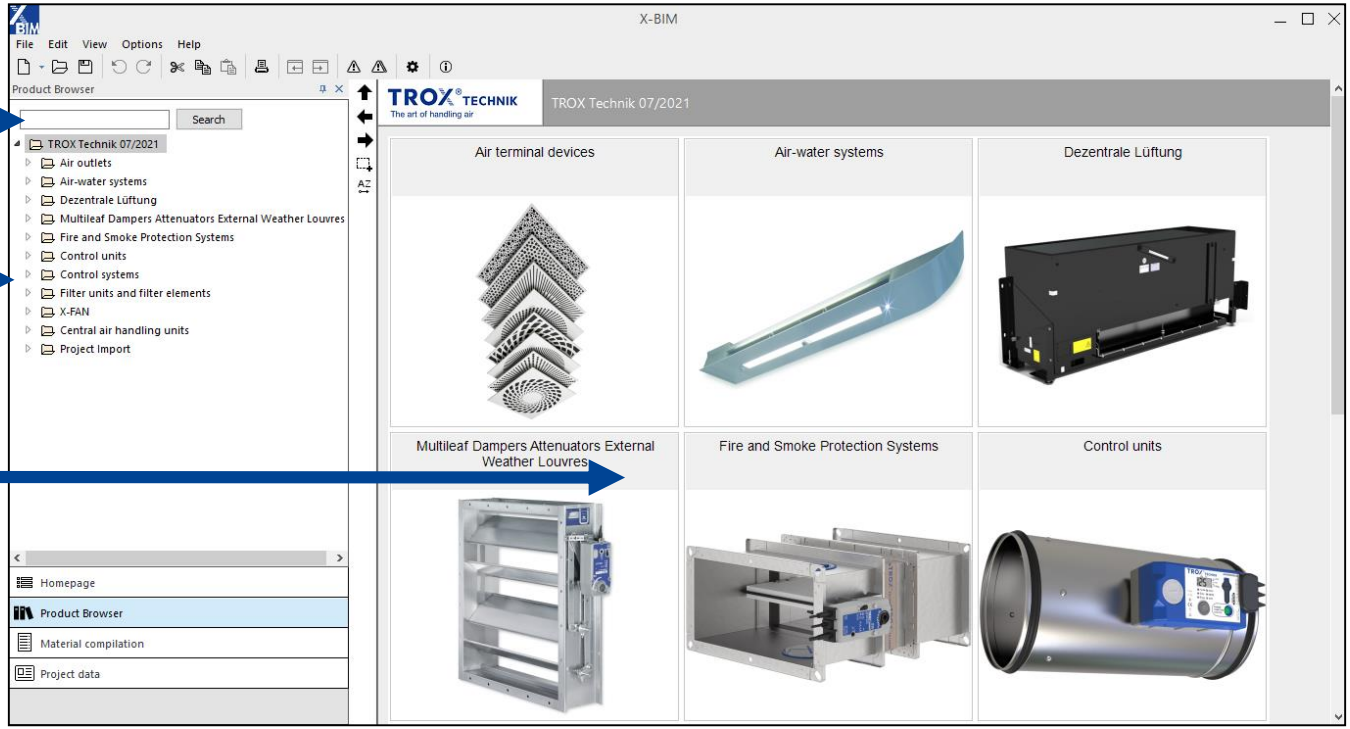
1 Use one of these three options to select a product

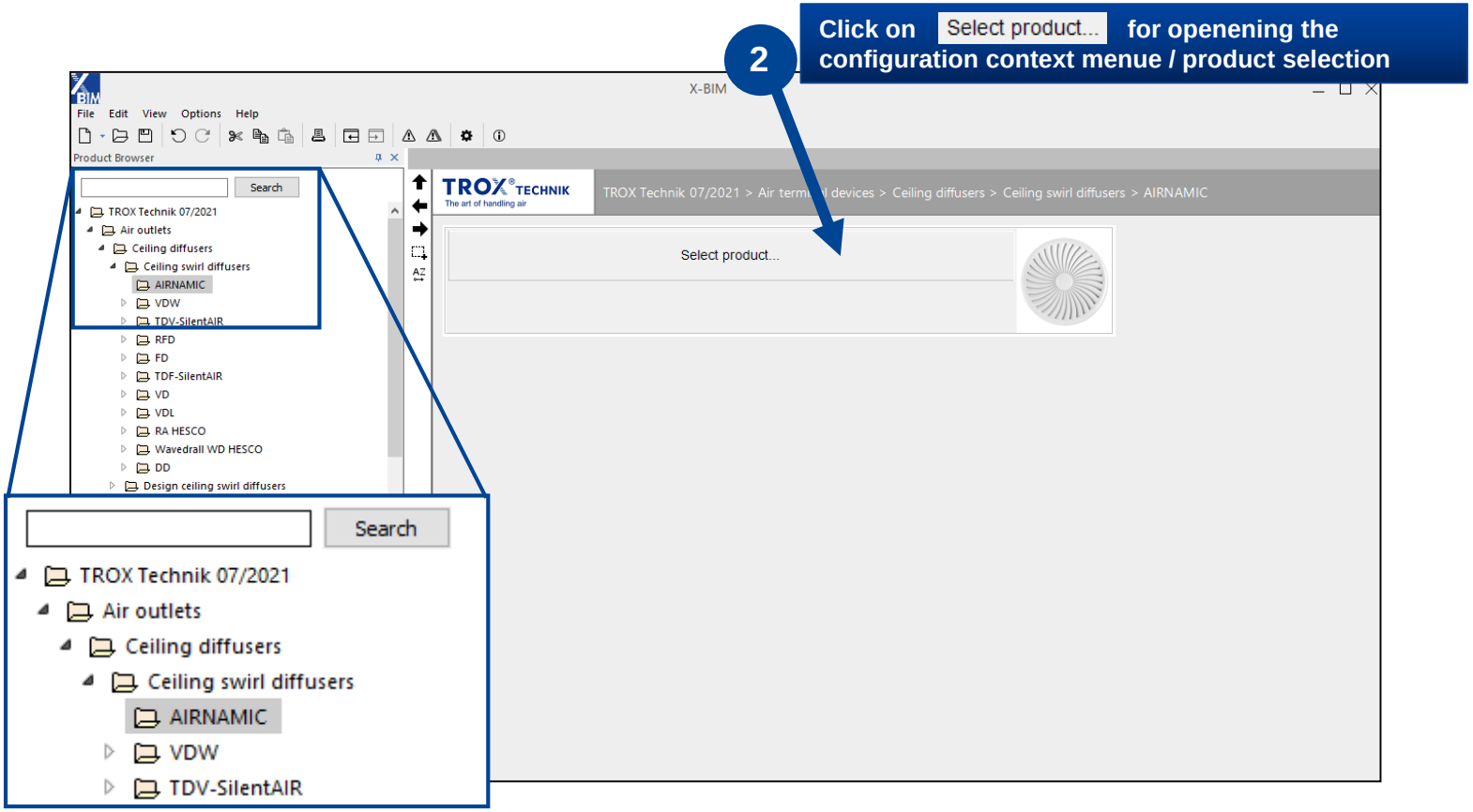
Direct search by entering product name

Select a product by its type and series name

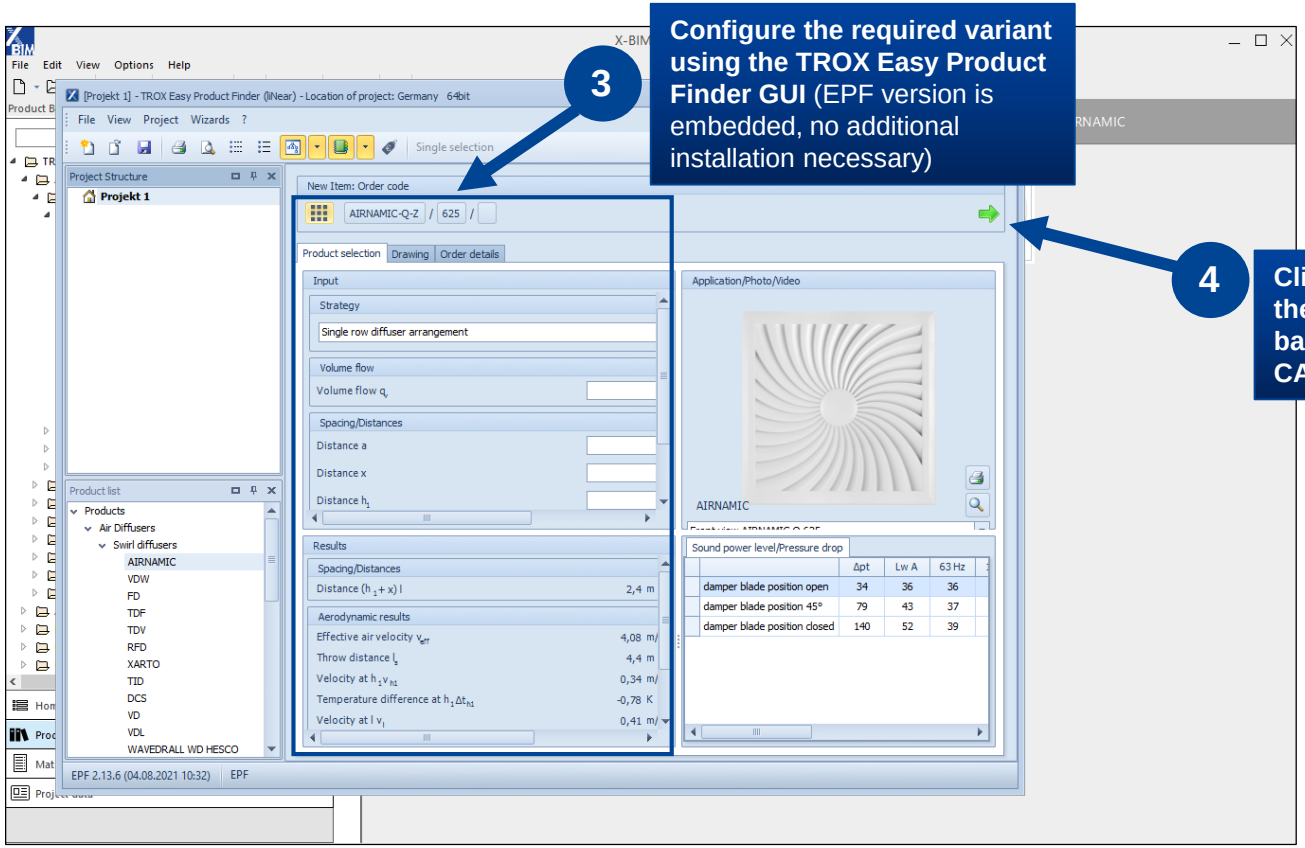
Select a product by its picture



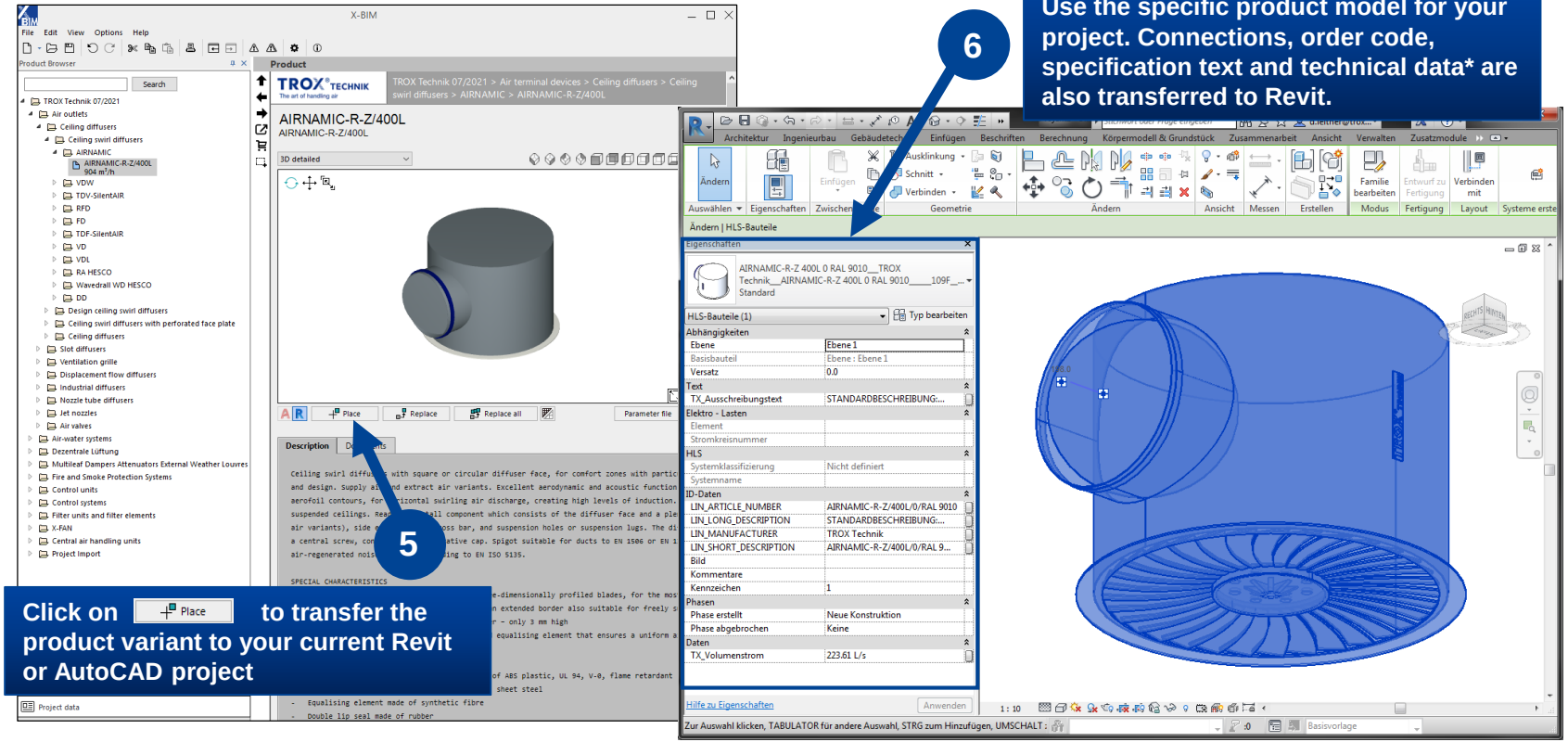
Selecting a product variant



Configuring a variant using the Easy Product Finder



*You can only transfer variants with existing geometry data in the embedded TROX Easy Product Finder.



*Transferred data amount depends on the product series.

EPF projects as a basis for BIM data

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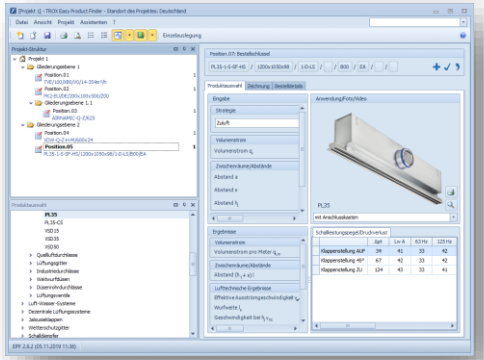
Use EPF project as basis for BIM data

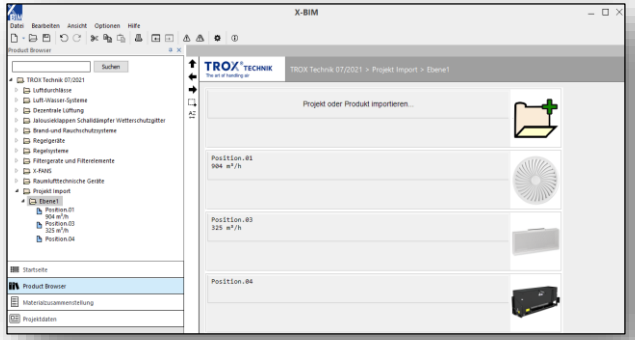
EPF project



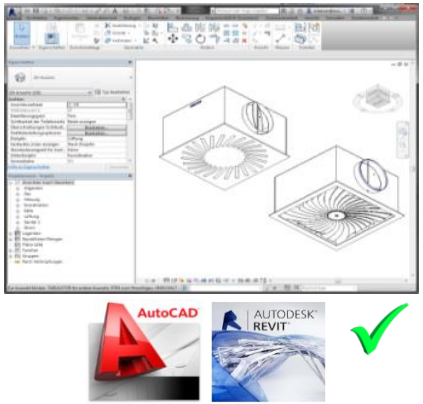
.xml

X-BIM Export

Project imported into
X-BIM CAD Browser



Design software based
on Revit or AutoCAD



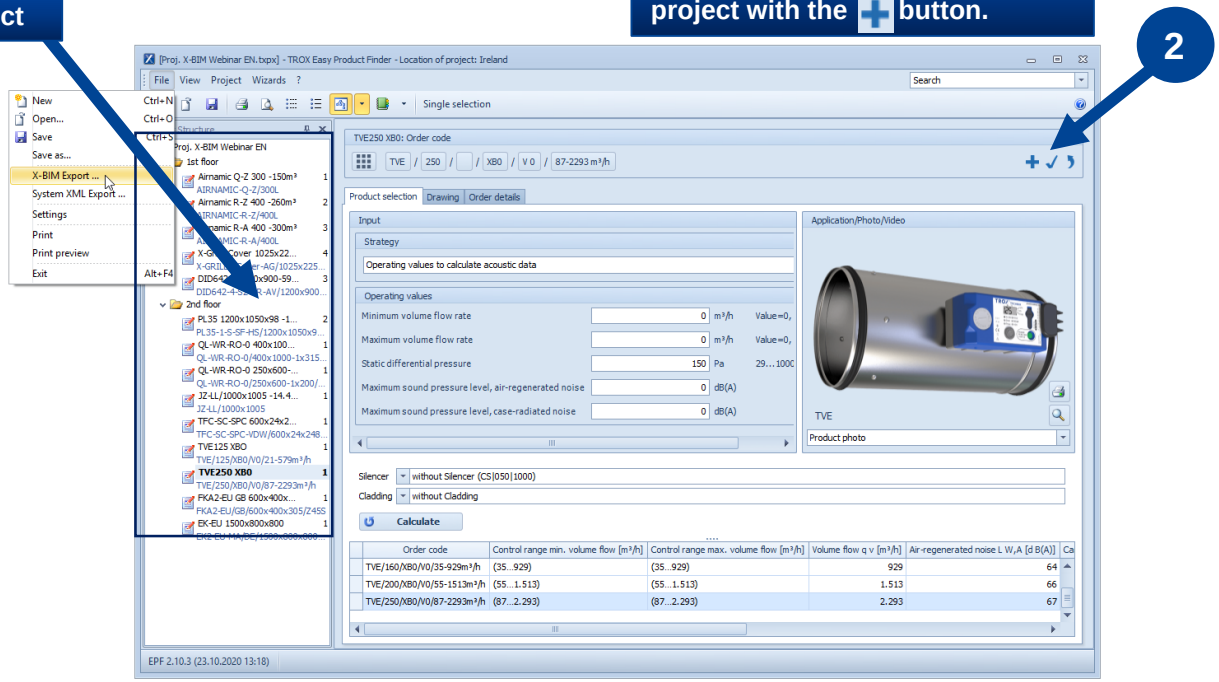
Importing EPF projects into the X-BIM CAD Browser makes it easy to use the product data of products which are pre-configured in an EPF project already or to create product compilation faster than one by one in the X-BIM CAD Browser.

Project overview in the Easy Product Finder

1 Create EPF project

Add configured products to the project with the ➕ button.

2



Exporting and saving the X-BIM project file from EPF

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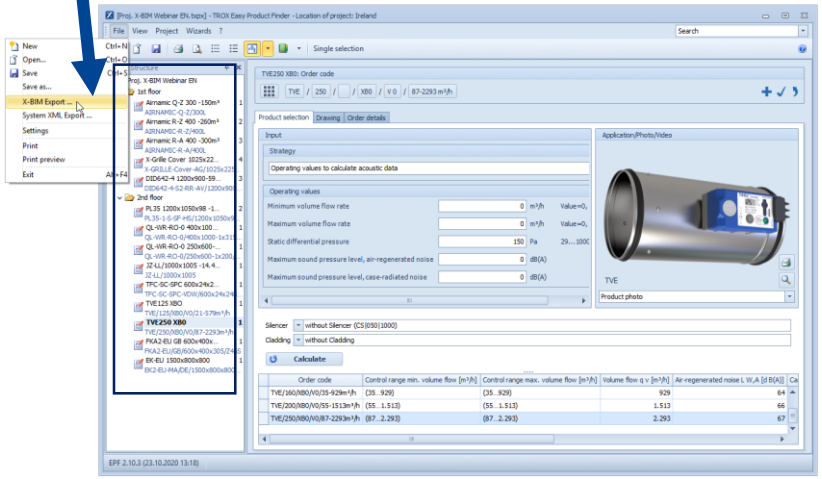
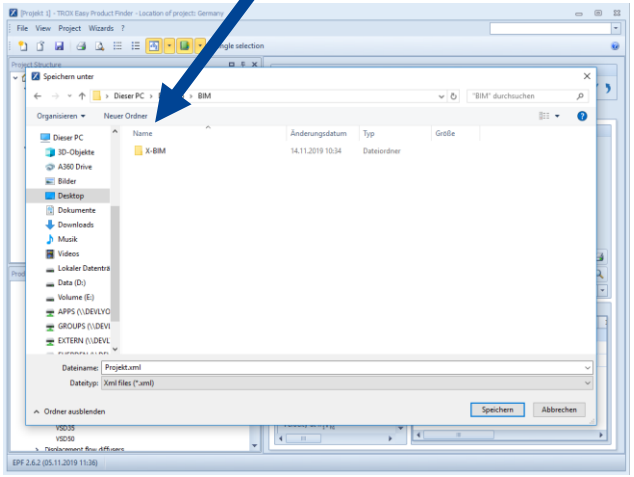
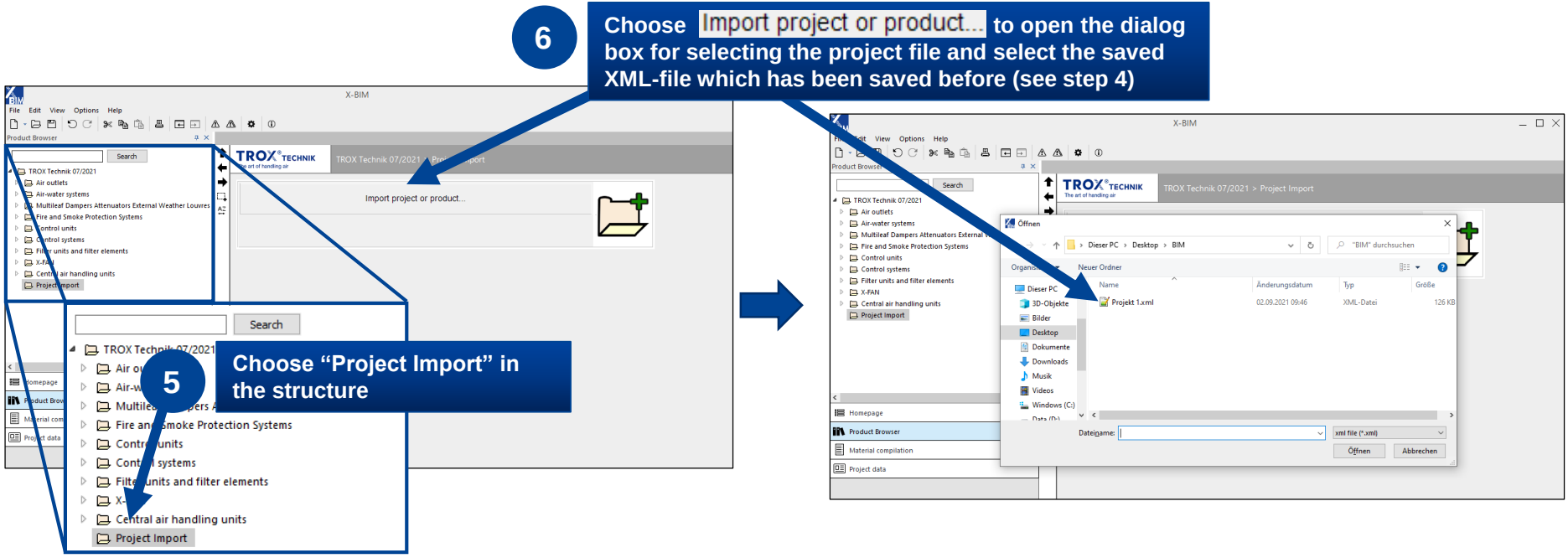
3 Export X-BIM file by selecting X-BIM Export ... in the “File”- menue



4 Safe X-BIM file (.xml) on your computer



Inporting the X-BIM project file into the X-BIM CAD browser

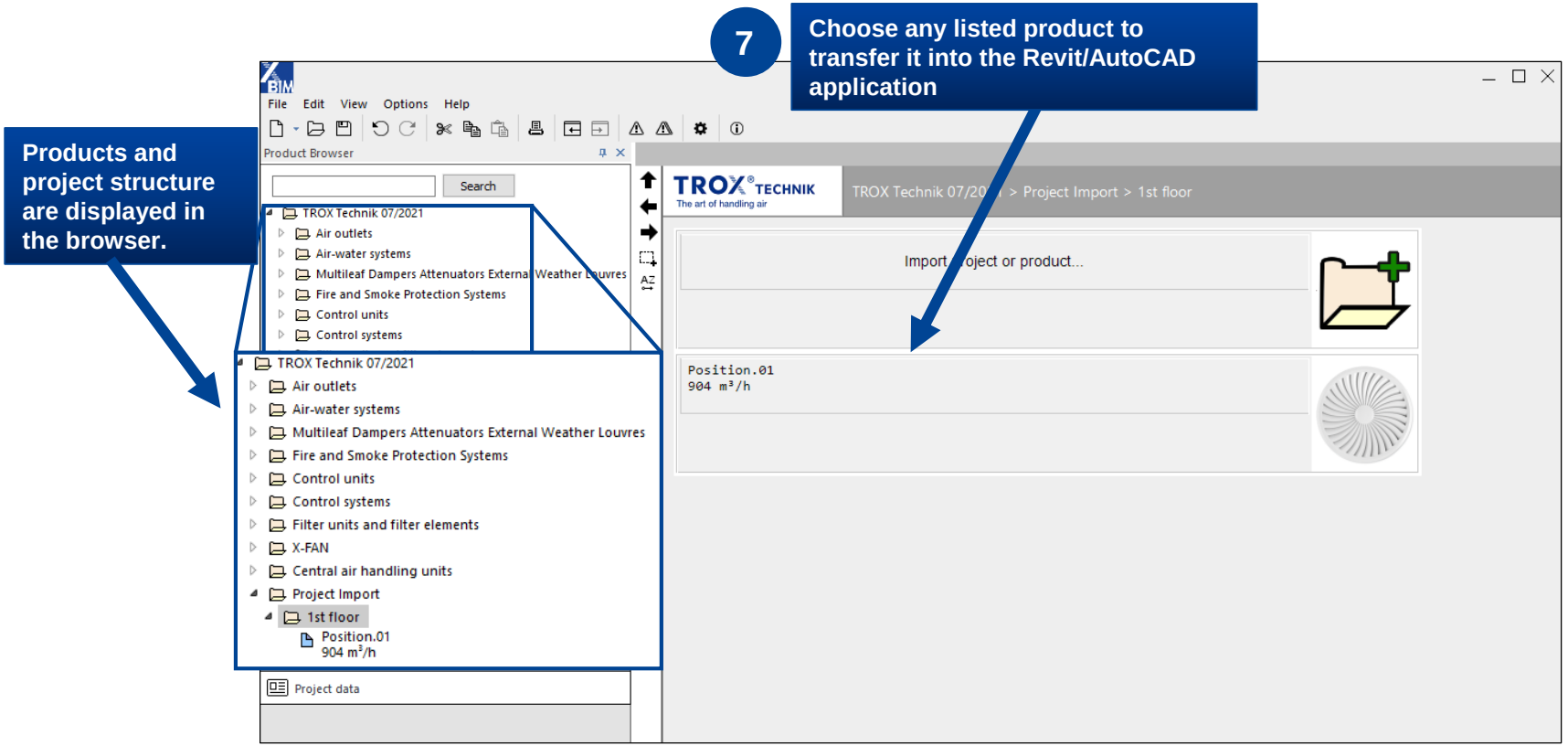


Overview of the project structure in the X-BIM CAD Browser

7

Choose any listed product to transfer it into the Revit/AutoCAD application

Products and project structure are displayed in the browser.



Configure and import TROX air handling units

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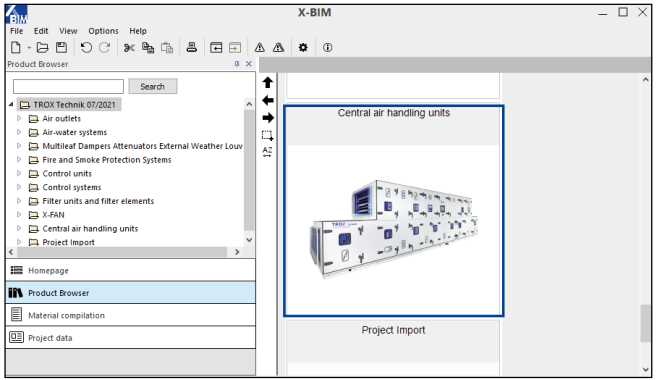
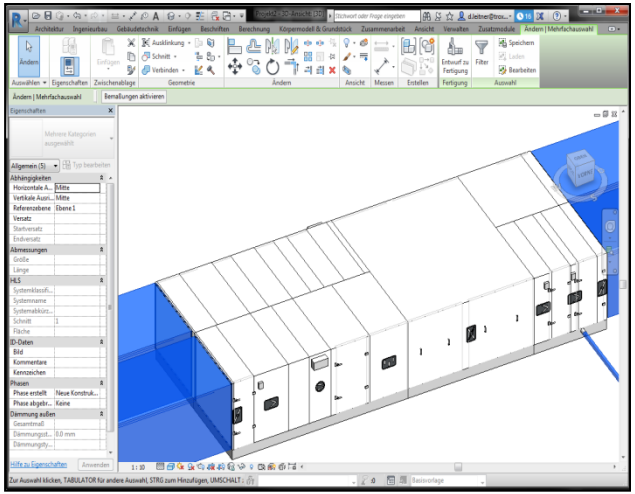
X-CUBE air handling units

X-CUBE Project file

X-BIM CAD Browser



Design software based on Revit or AutoCAD



X-CUBE air handling units

Option 1

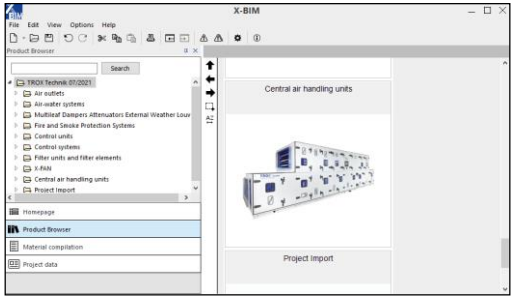
AHU online configurator

AHU can be configured online

Option 2

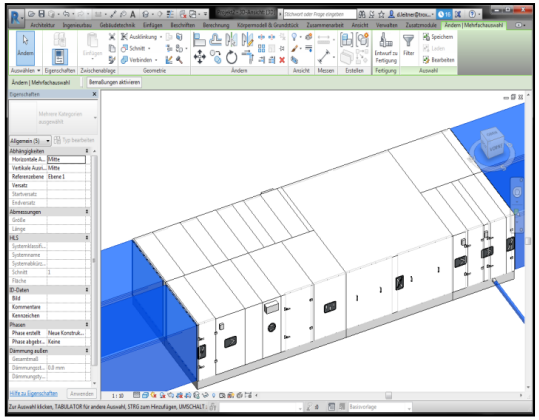
TROX AHU sales

AHU is configured by TROX AHU sales



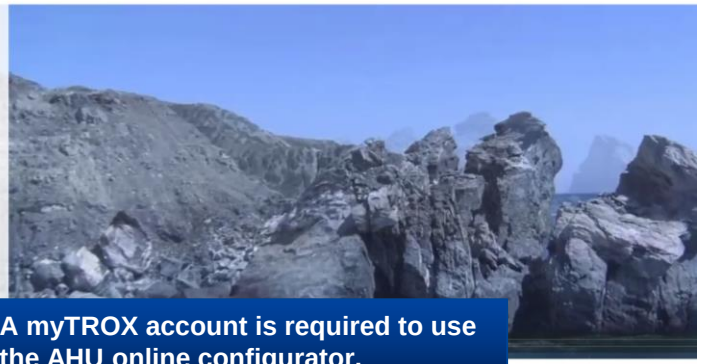
Alternatively generation of geometry data in DXF, DWG and IFC formats

Design software based on Revit or AutoCAD



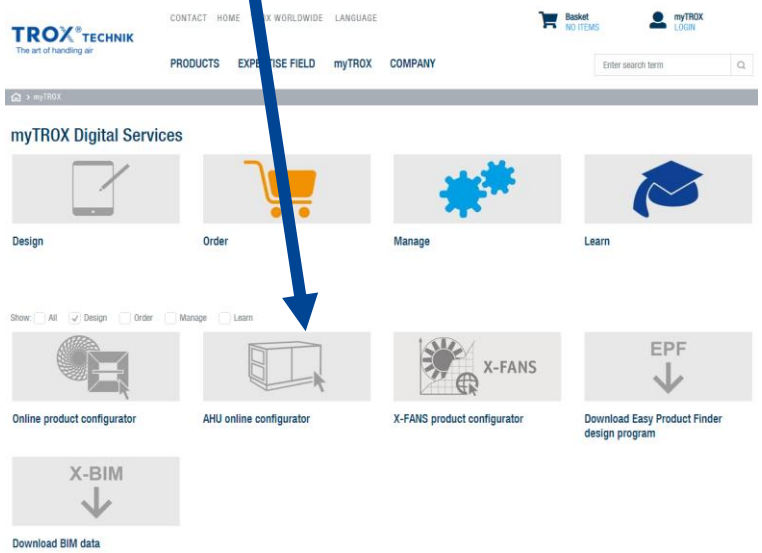
AHU online configurator

1 TROX Homepage: Choose myTROX and select the menue Design



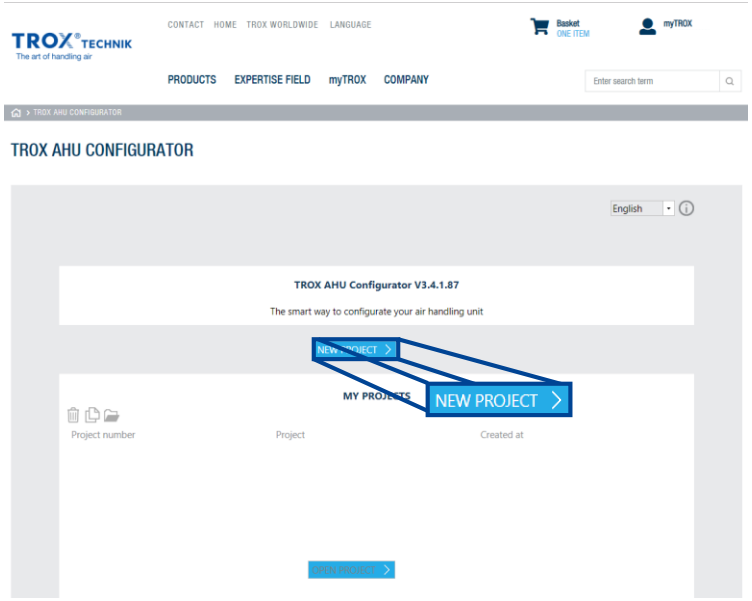
A myTROX account is required to use the AHU online configurator.

2 Choose AHU online configurator.

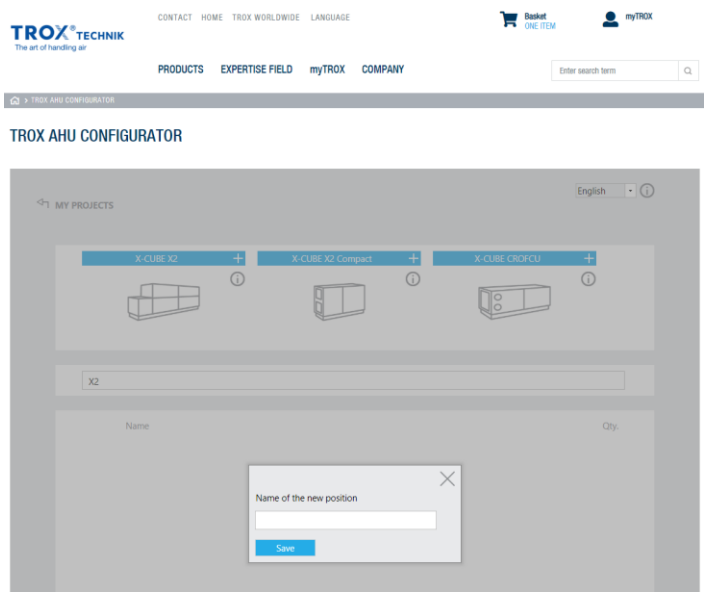


AHU online configurator

3 After login to the myTROX account, start a new project → NEW PROJECT

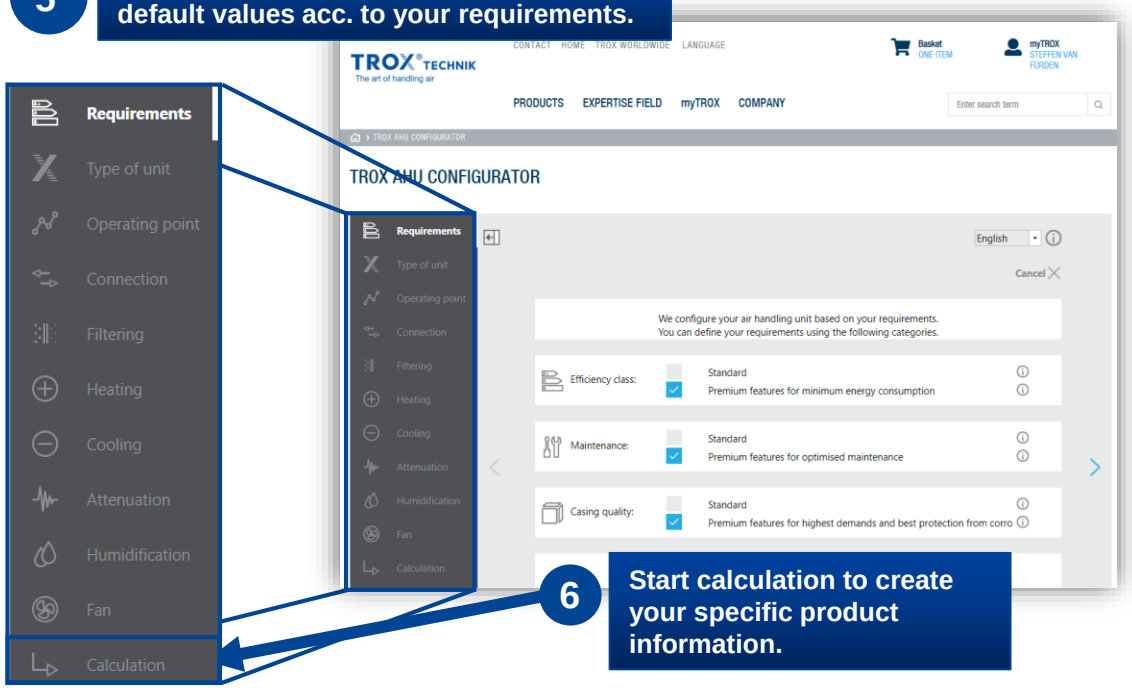


4 Select the desired X-Cube variant, assign position name and start configuration.



AHU online configurator

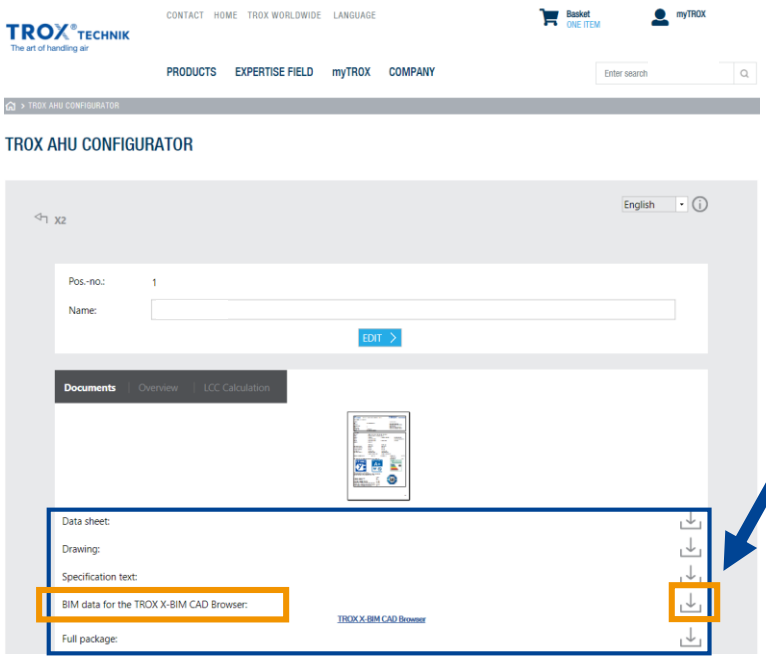
5 Go through the menue and adjust the default values acc. to your requirements.



6 Start calculation to create your specific product information.

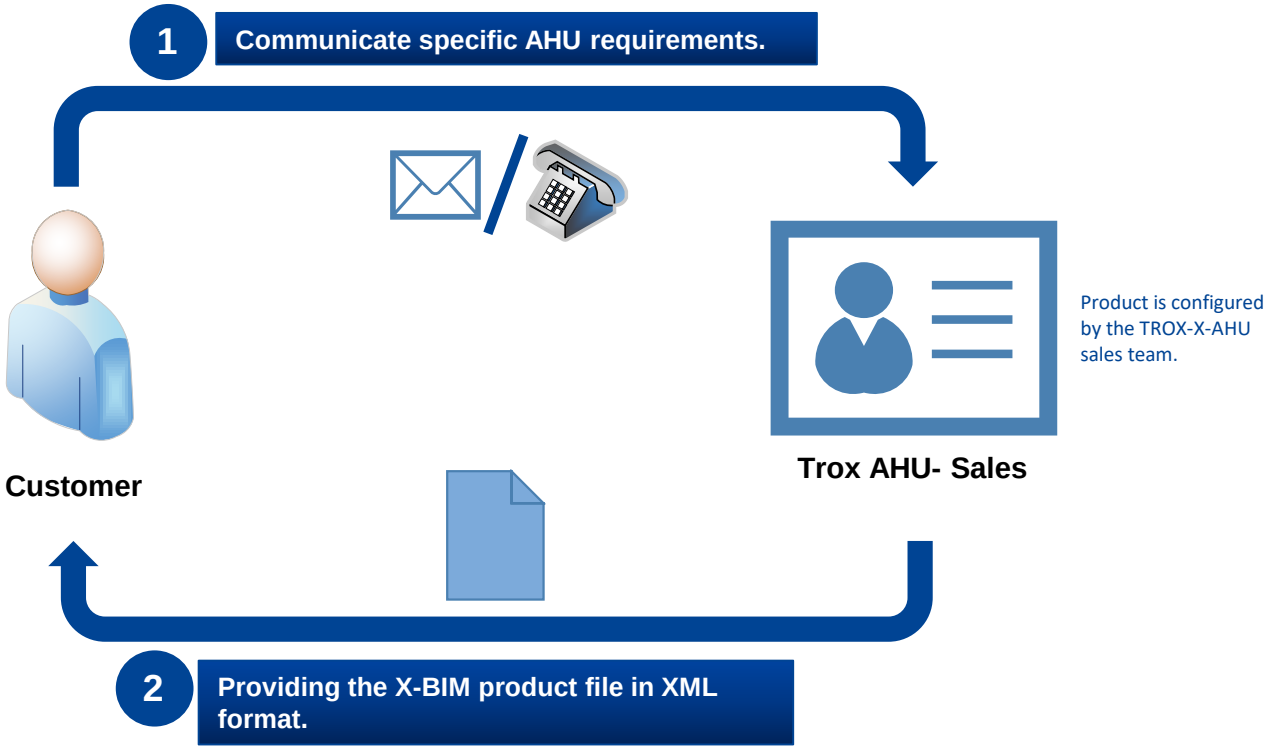
AHU online configurator

After the calculation, several files can be downloaded, including the BIM data for the TROX X-BIM CAD BROWSER.



7 **Download X-BIM CAD Browser file (xml data format)**

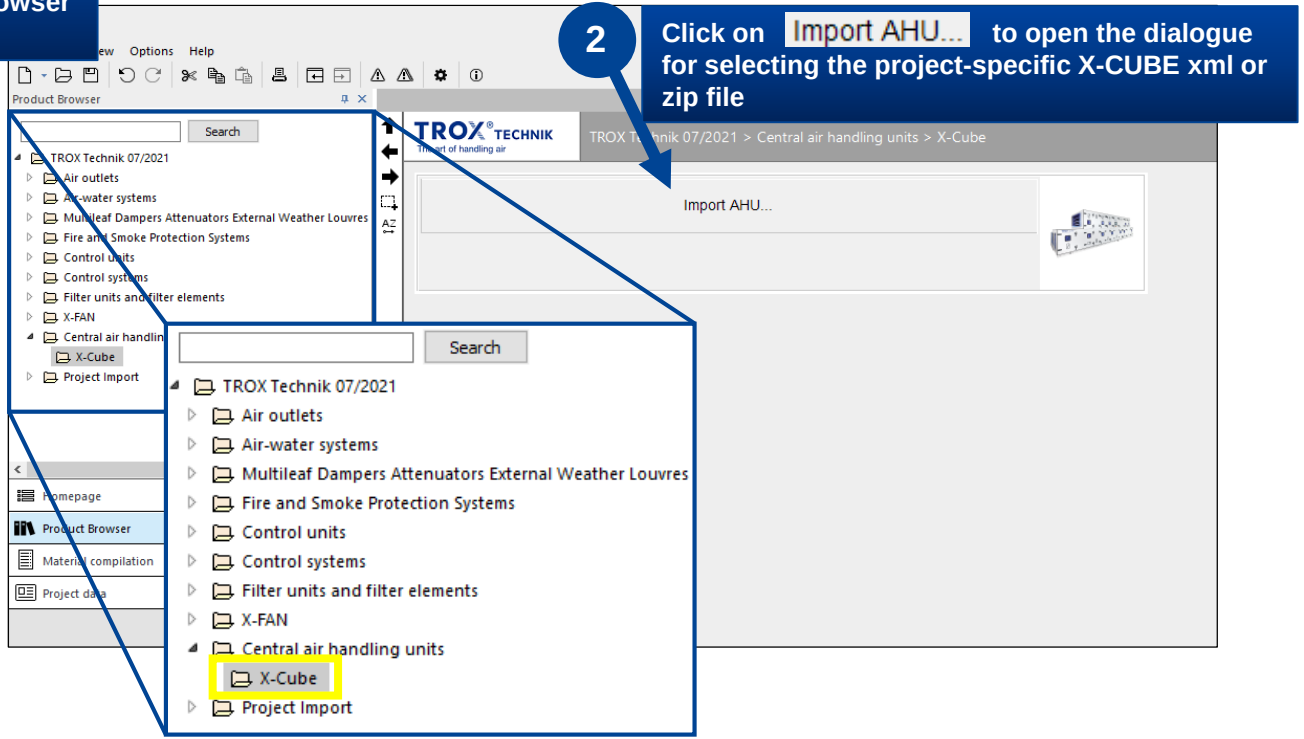
Get X-BIM file from TROX X-CUBE Sales Team



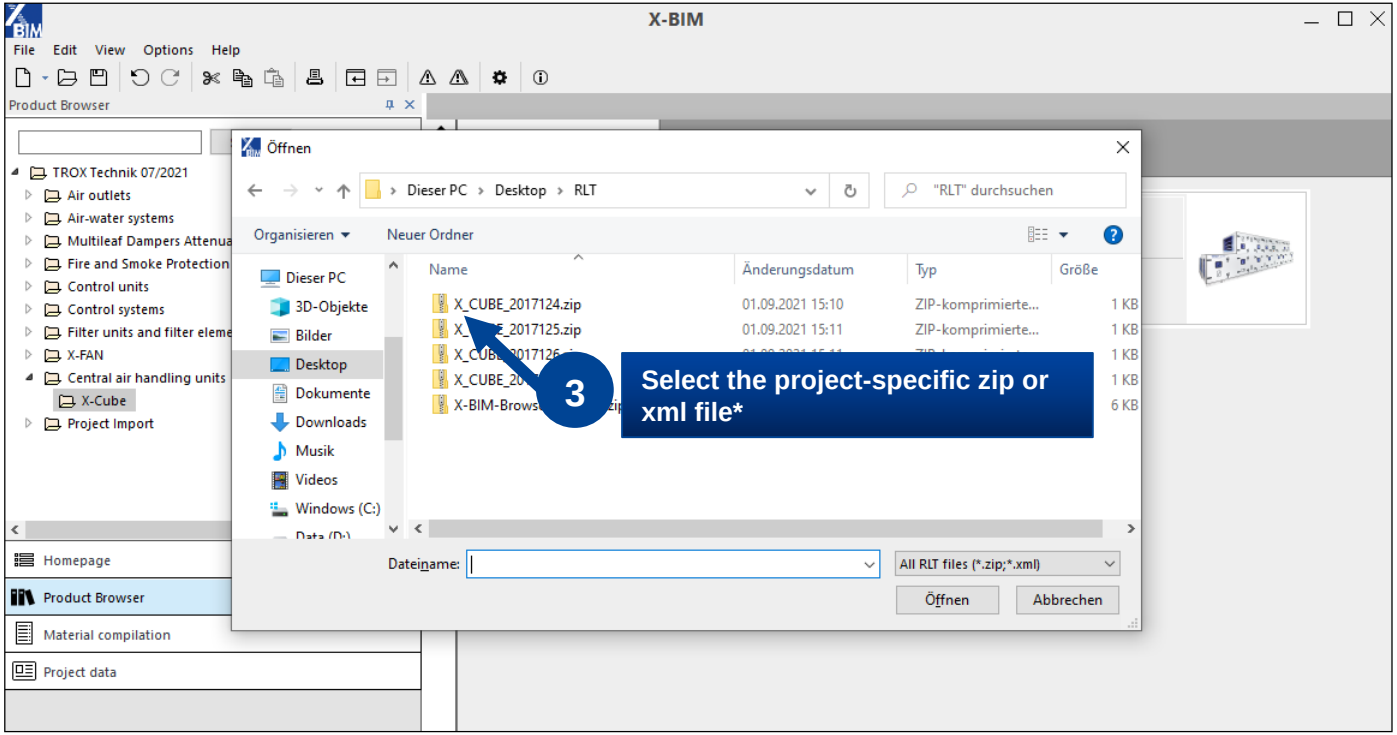
Importing AHU X-BIM file into X-BIM CAD Browser

1 **Select X-CUBE category in the X-BIM CAD Browser product browser structure**

2 **Click on Import AHU... to open the dialogue for selecting the project-specific X-CUBE xml or zip file**

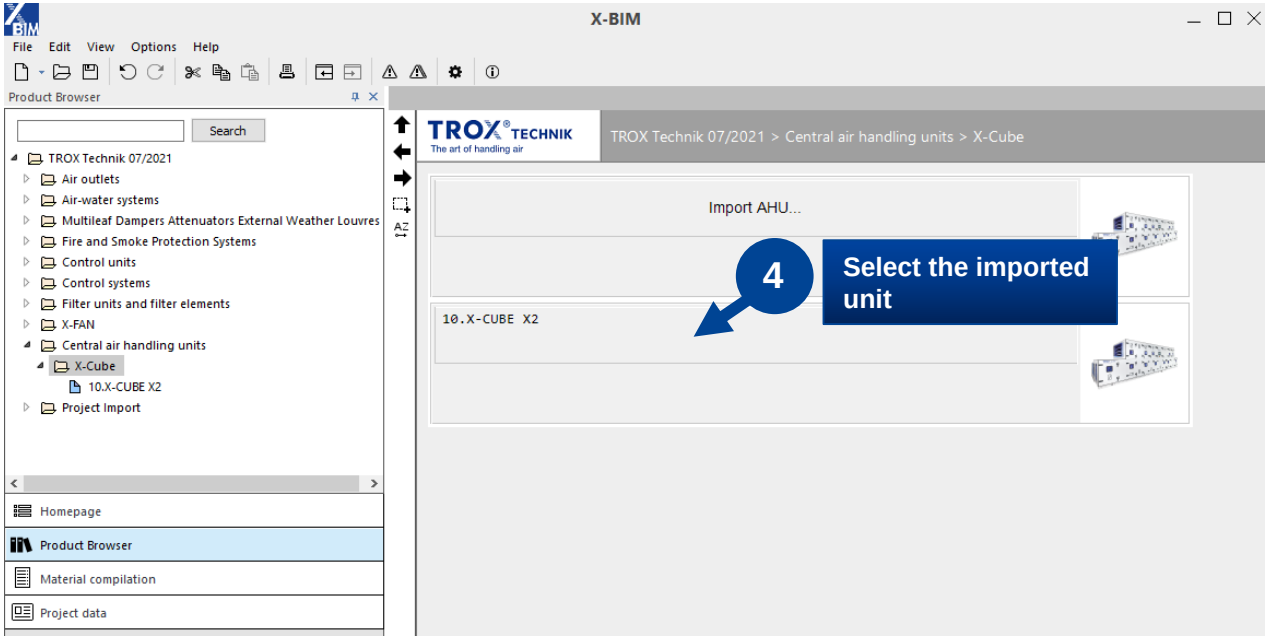


Importing AHU X-BIM file into X-BIM CAD Browser



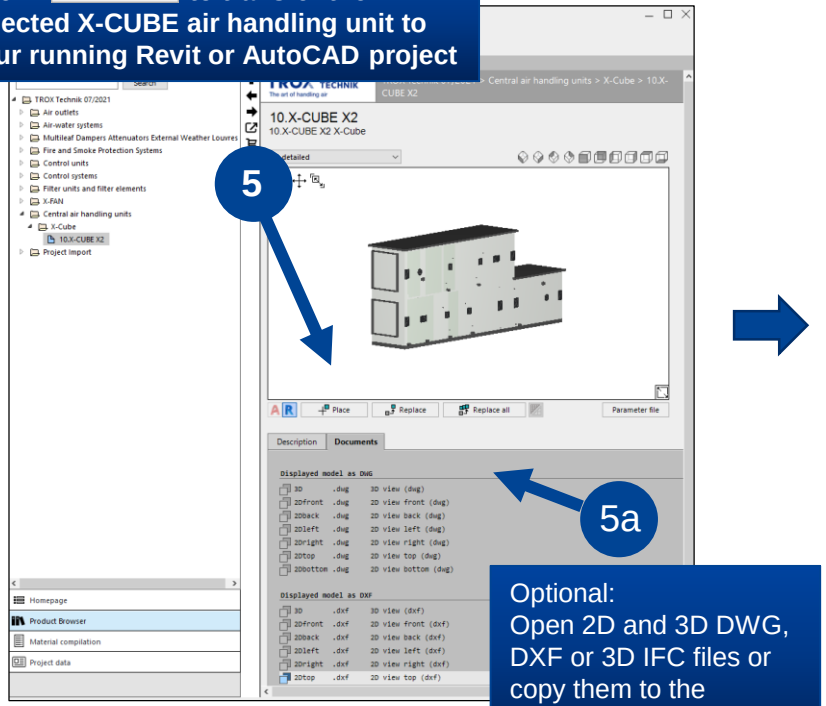
*Ask your TROX sales representative for the project-specific X-BIM file or generate xml with the AHU online configurator.

Selecting a unit

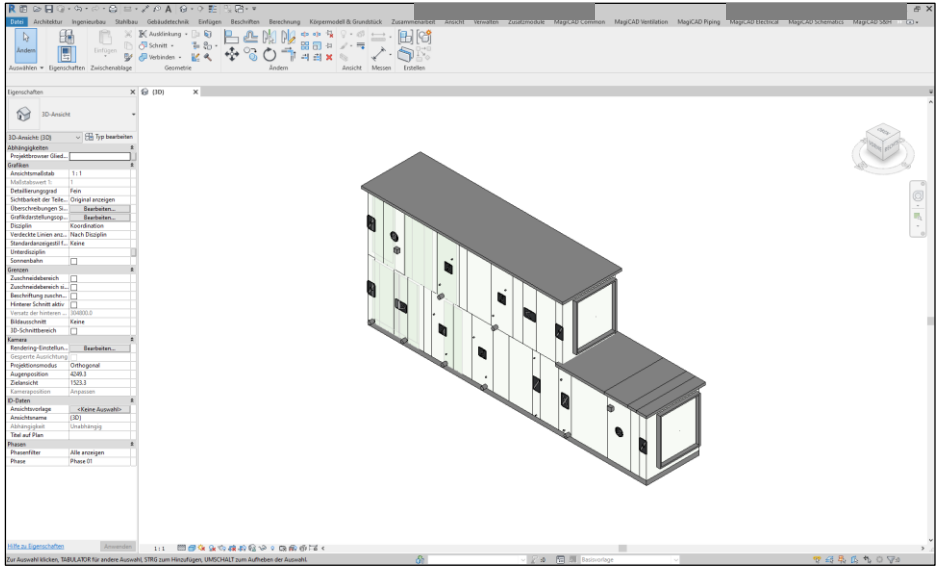


Transferring data to a project

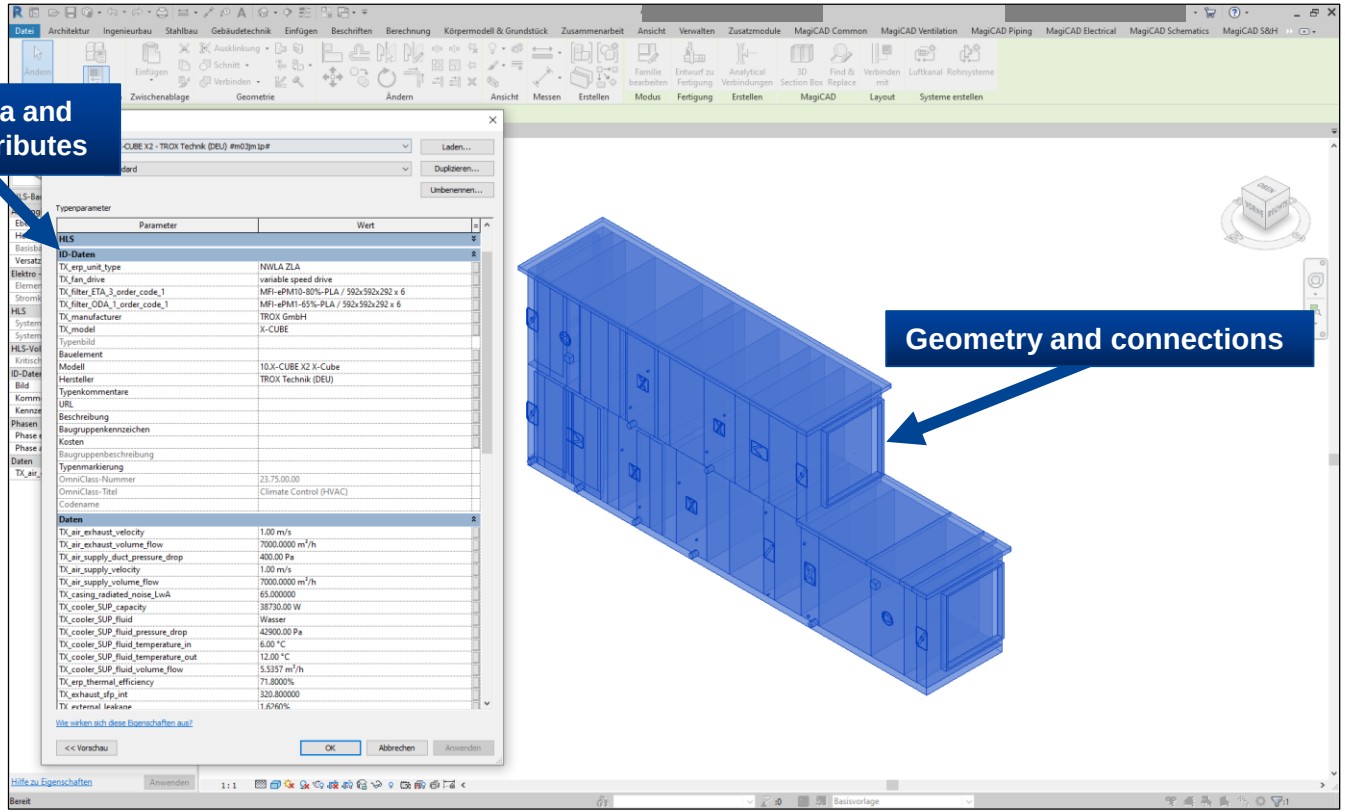
Click Place **to transfer the selected X-CUBE air handling unit to your running Revit or AutoCAD project**



Optional:
Open 2D and 3D DWG, DXF or 3D IFC files or copy them to the clipboard *



Data available for Revit applications



Configure and import TROX X-FAN devices

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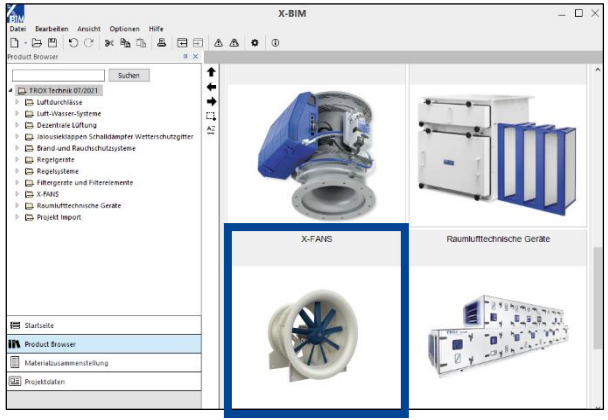
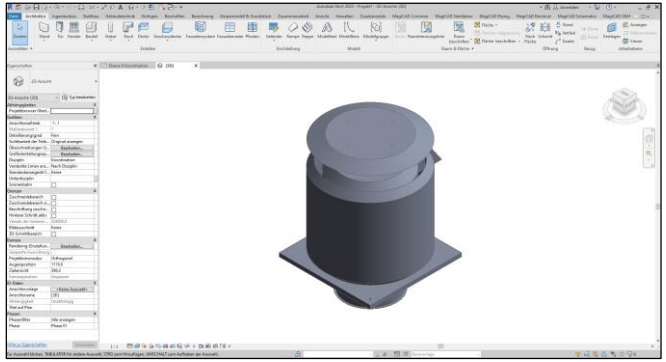
X-FANS

X-FAN project file

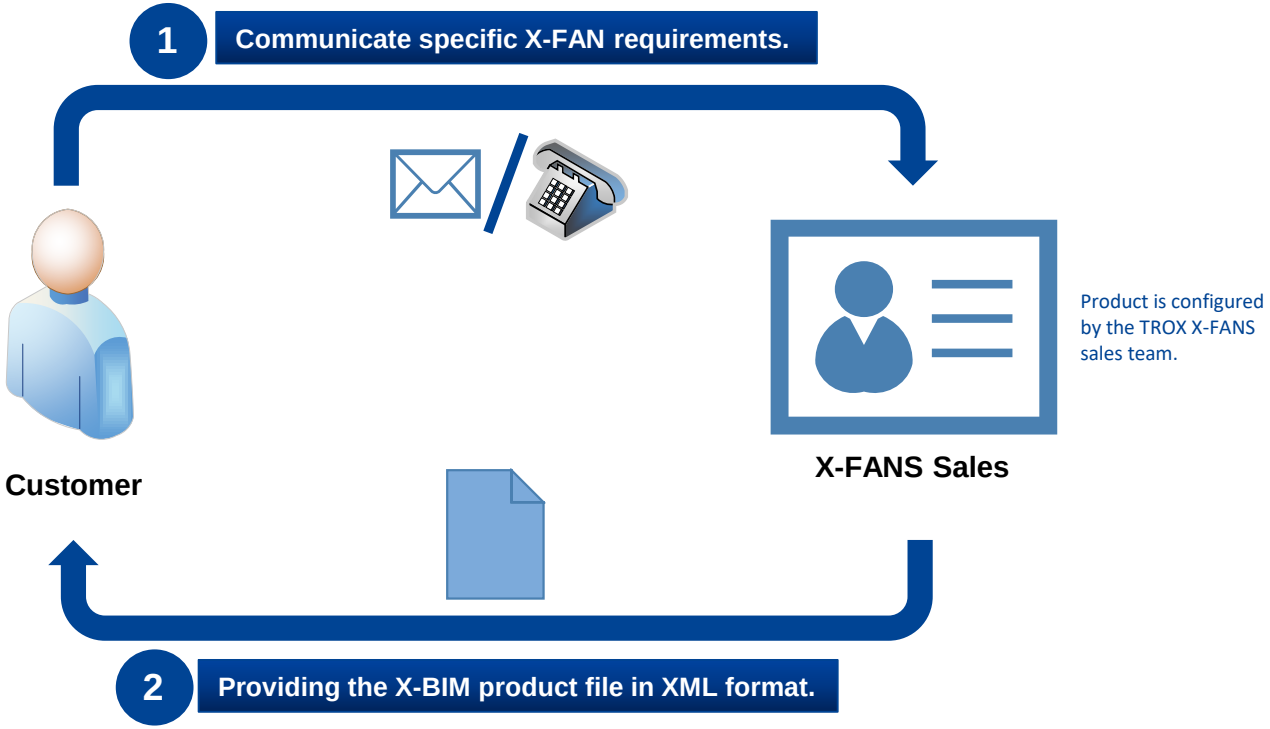
X-BIM CAD Browser



Planning software based on Revit or AutoCAD



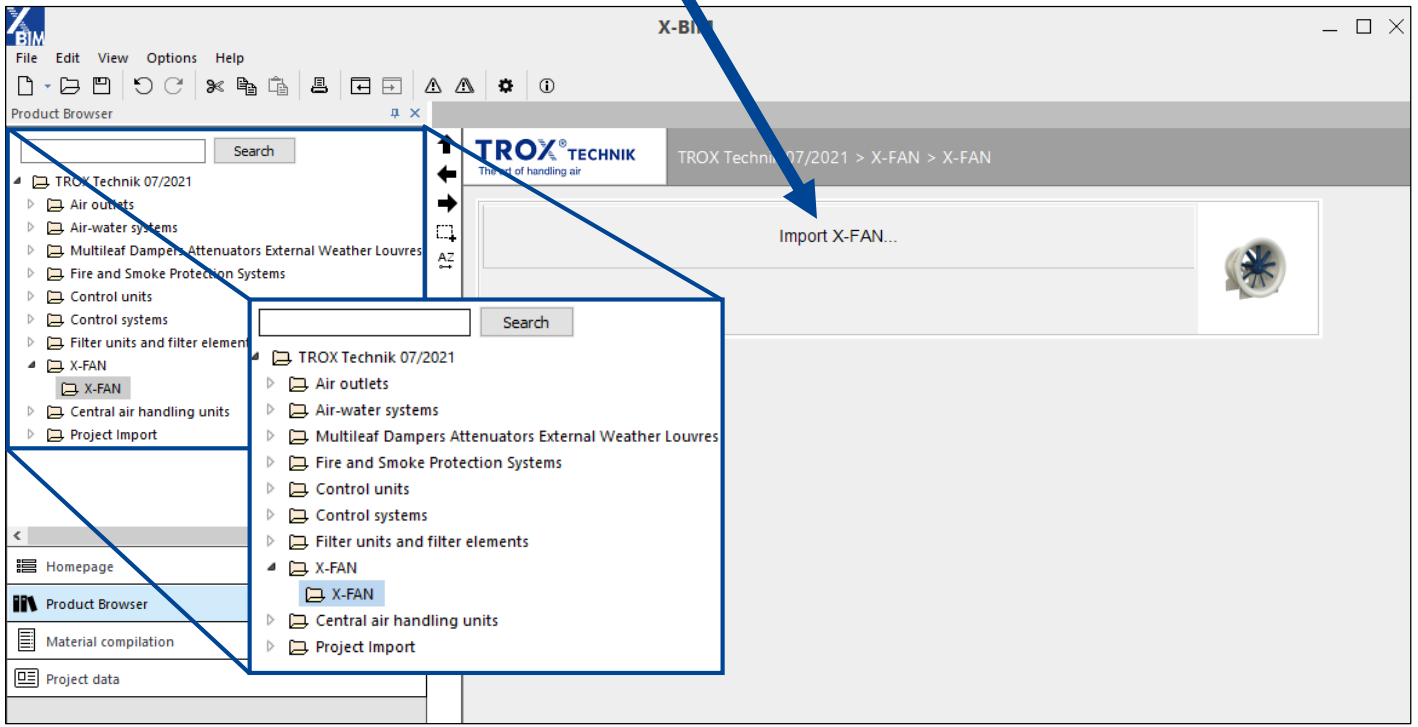
Get X-BIM file from TROX X-FANS Sales Team



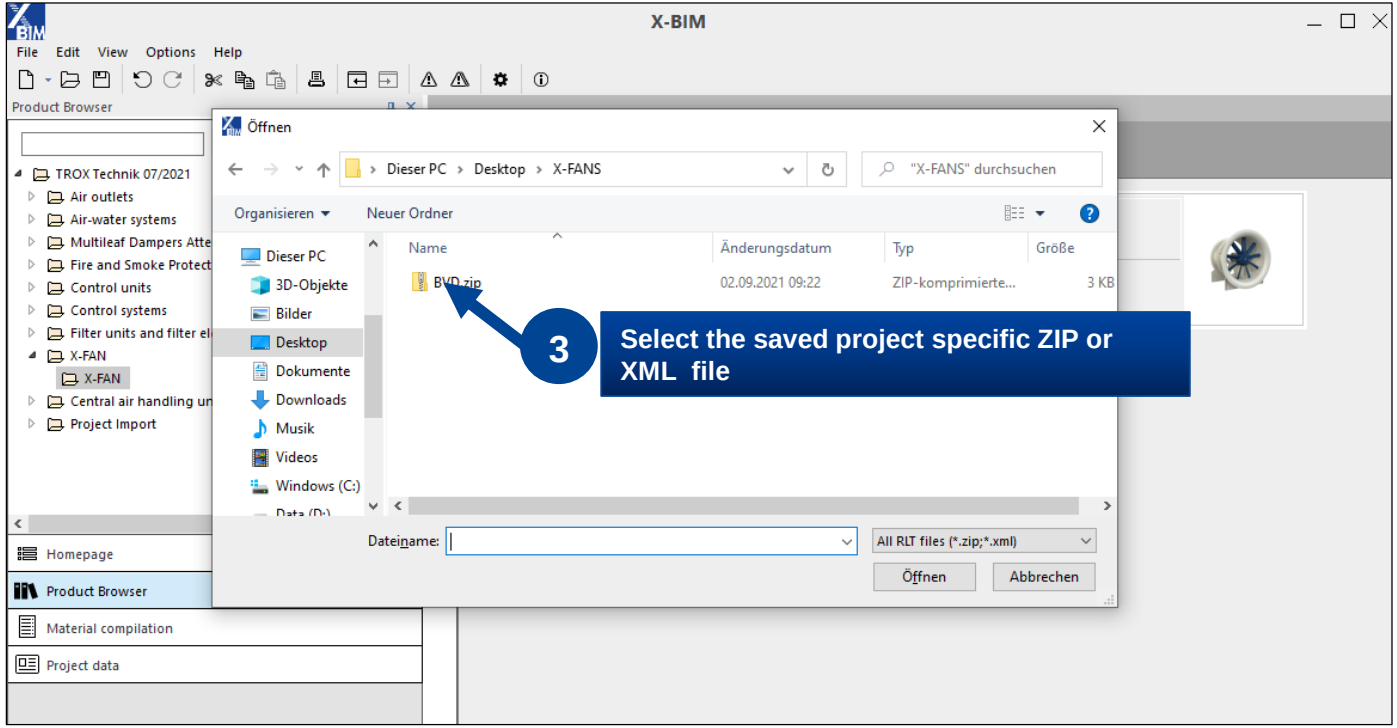
Importing X-FANS X-BIM file into X-BIM CAD Browser

1 Select X-FAN in the product structure

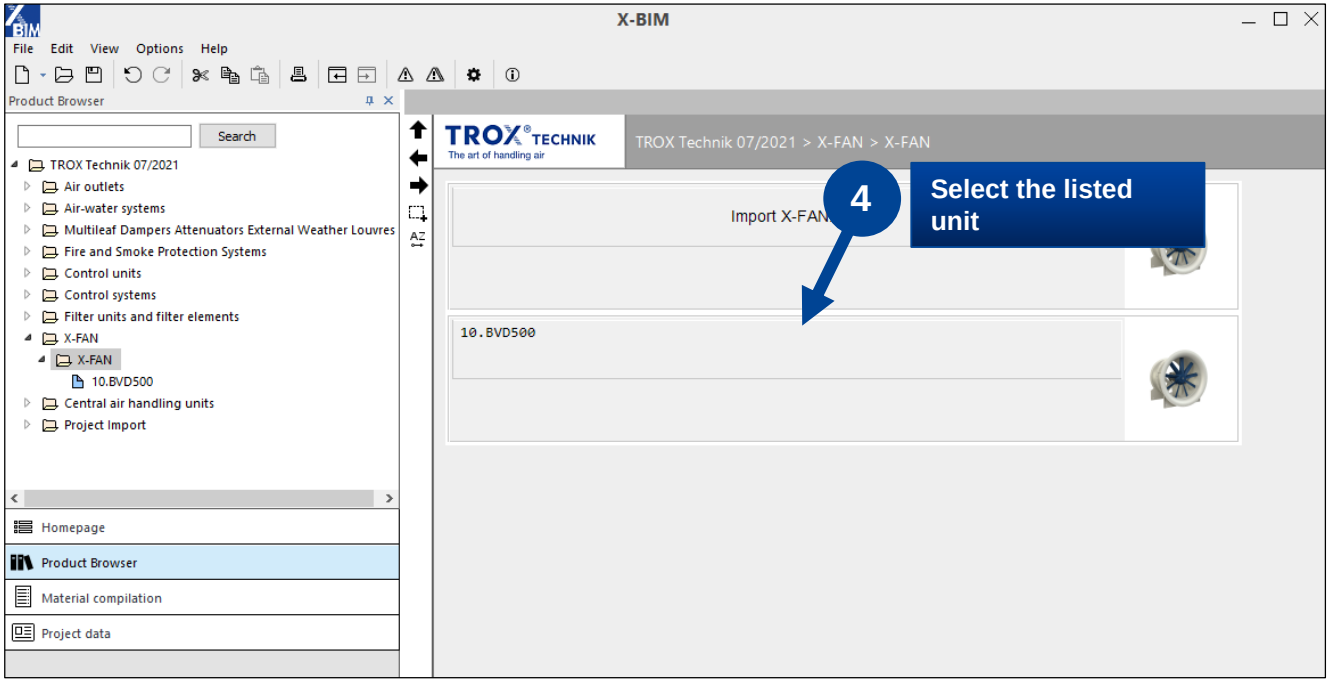
2 Select Import X-FAN... to open the dialog box for selecting the X-FAN ZIP or XML file.



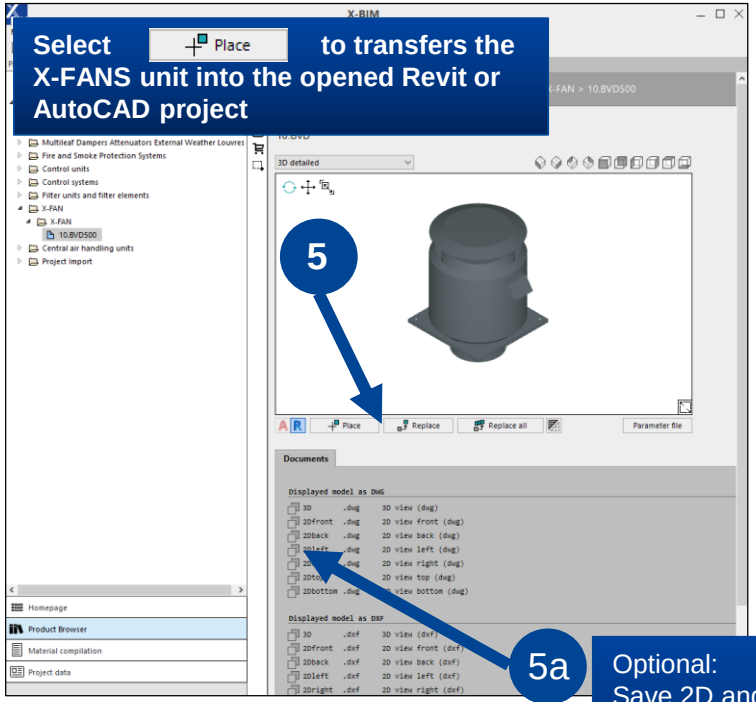
Loading an X-BIM file from an X-FAN device

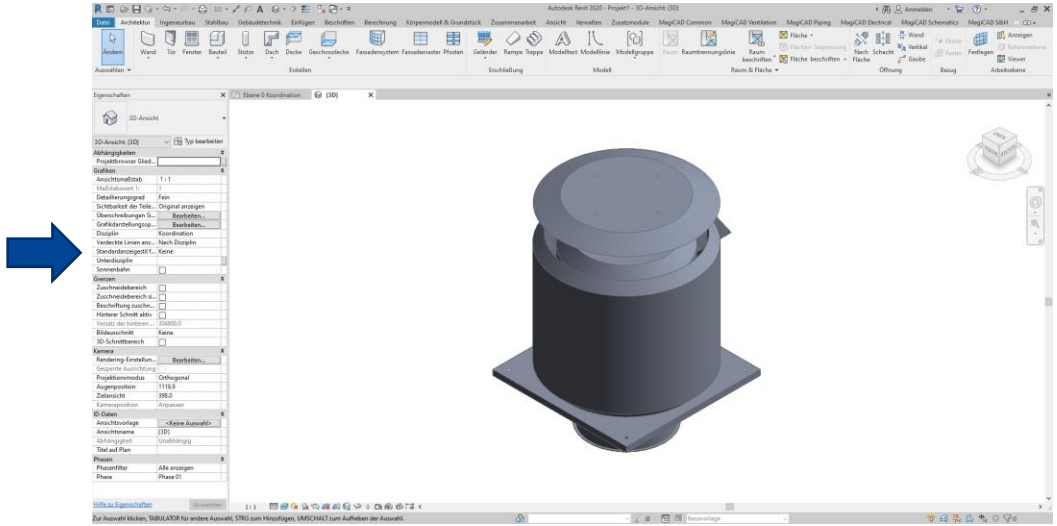


Selection of the imported device



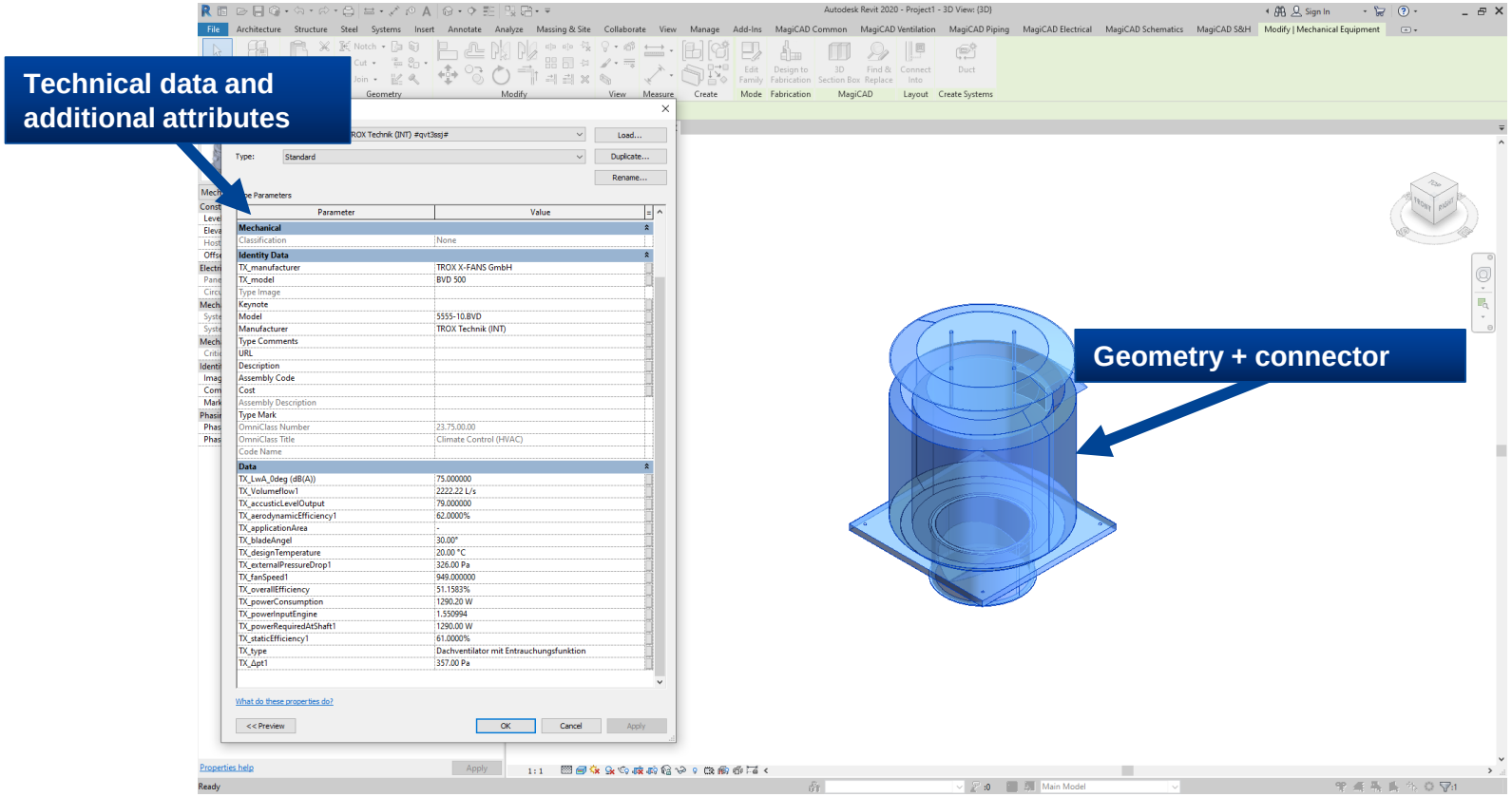
Transferring data to a project





Optional:
Save 2D and 3D DWG, DXF or IFC files or send them by E-Mail (copy to clipboard)

Available content for Revit applications



Further information

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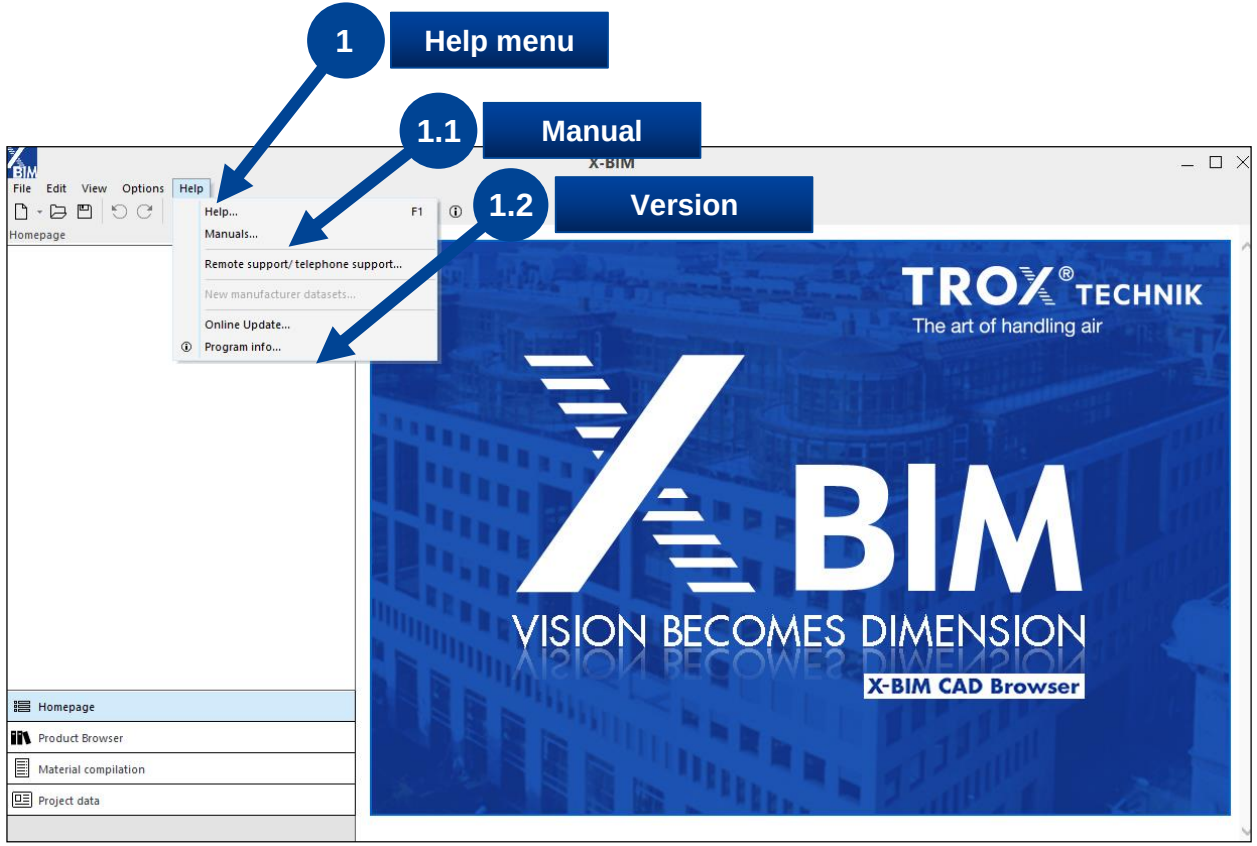
X-BIM CAD Browser is based on a CAD browser by liNear GmbH. For more details of the software please refer to the manual. Please note that we have adjusted some of the CAD browser functions. Thats why the liNear manual descriptions may differ from the actual version.