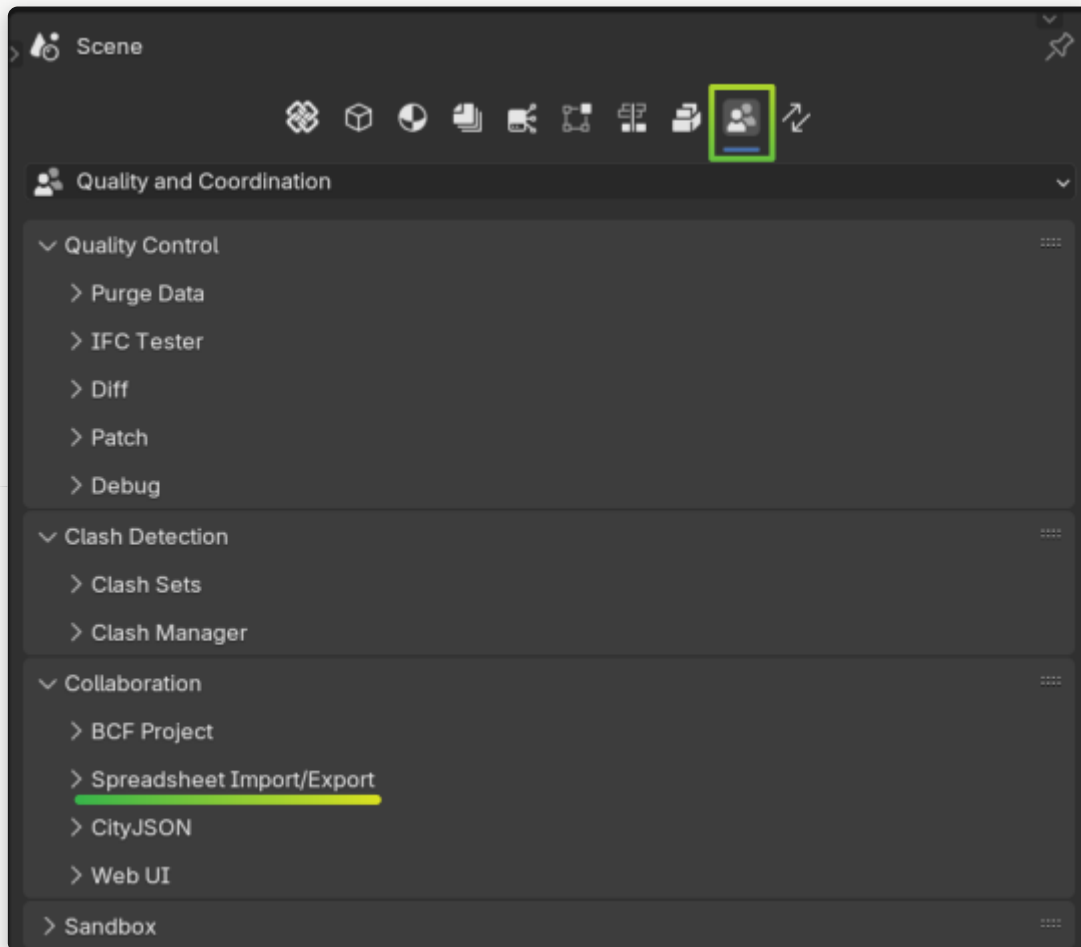


Spreadsheet Import and Export

Under Properties panel, you can head to “Quality and Coordination” and select Spreadsheet Import/Export



Exporting to a spreadsheet

Exporting information from IFC files to spreadsheet is a process that involves the following steps:

1. Select the files you want to export. You can select multiple files.
2. Select the format you want your data to be exported to. You can choose between CSV, Excel (xlsx) and ODS or WEB which will generate a table in a webserver accesible locally.
3. Select the elements for the files that you want to export and from those elements the attributes that you want to export. Is is possible to load previously saved json templates with the queries to select elements and the output format for the attributes.
4. Export to files (one file per IFC file selected) or to a webserver (one web page for all the IFC files selected).

Note

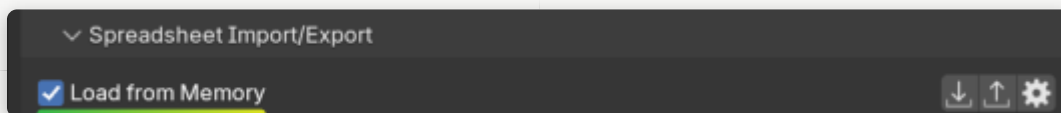
The files generated are created in the same folder as the IFC files selected. The file names are the same as the IFC files but with a suffix of the form _YYYY-MM-DD-HH-MM.xxx where YYYY-MM-DD-HH-MM is the date and time of the export and xxx is the file format selected (csv, xlsx, ods). Ex: File Testing.ifc will generate for

example the file Testing_2025-04-16-14-02.csv if csv is selected.

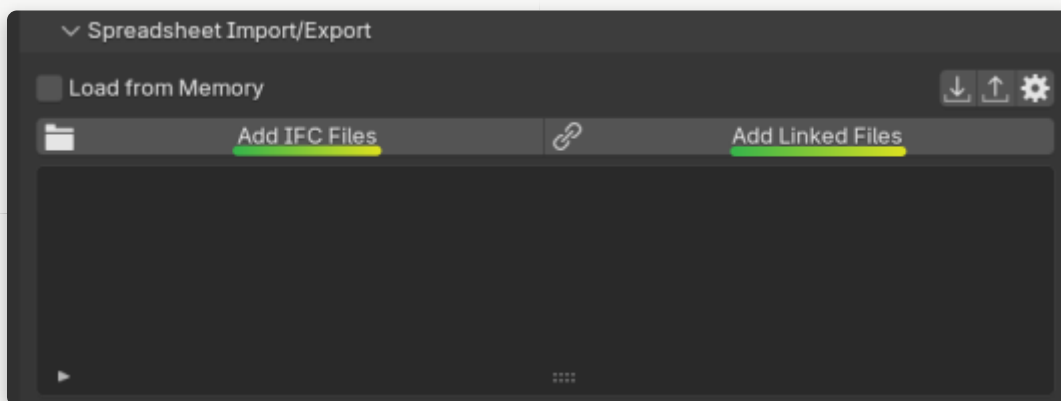
Let's see in detail each of the steps:

1. Select the files you want to export. There are two major possibilities here. Either you chose to just process the current IFC file loaded in the scene or you can select multiple IFC files to process.

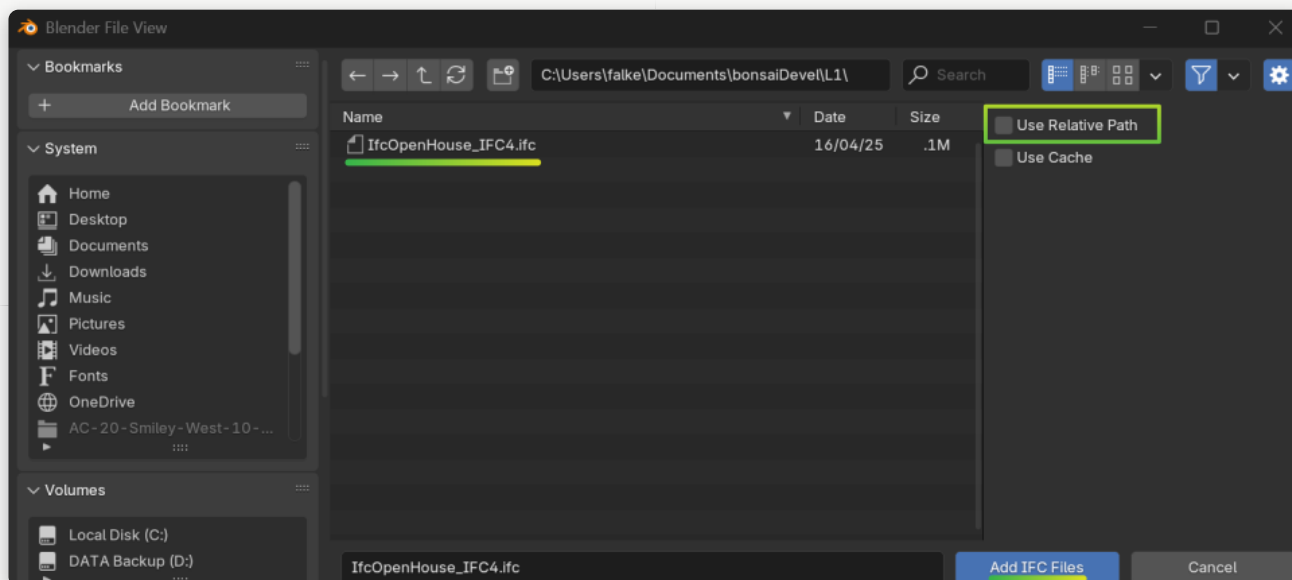
In the first case, you can just tick “Load from Memory”



In the second case, you untick “Load from Memory” and two buttons will appear.



The “Add IFC Files” button will open a file browser where you can select the IFC files you want to process

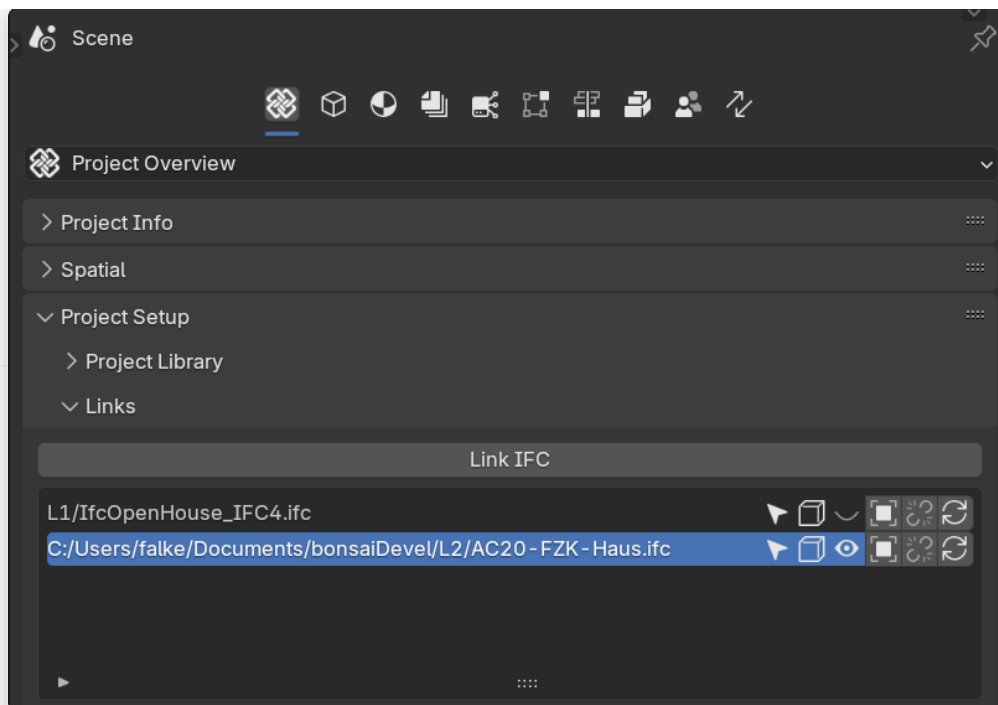


Note

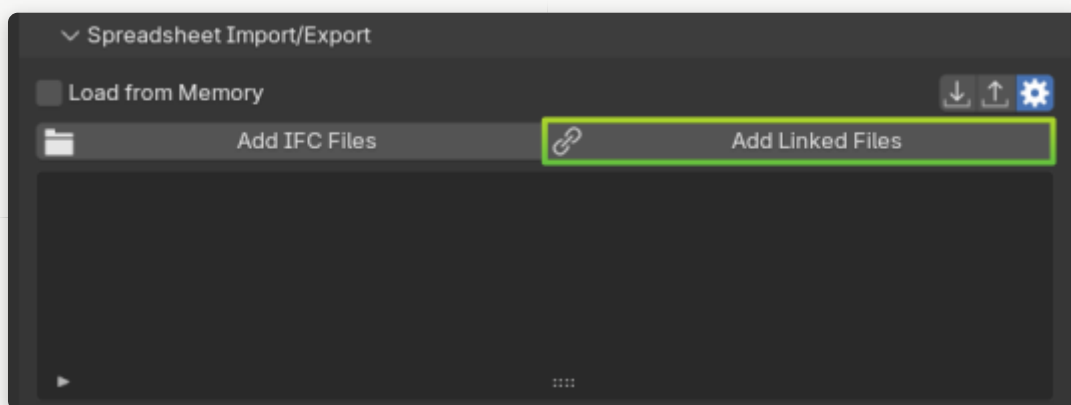
Pay attention whether you want to add the file with an absolute or relative path. Also note that this is the standard blender file browser so you can use the standard blender file browser shortcuts to navigate and select one or multiple files.

The “Add Linked Files” will fetch the files you have in the Links subpanel in the projects panel.

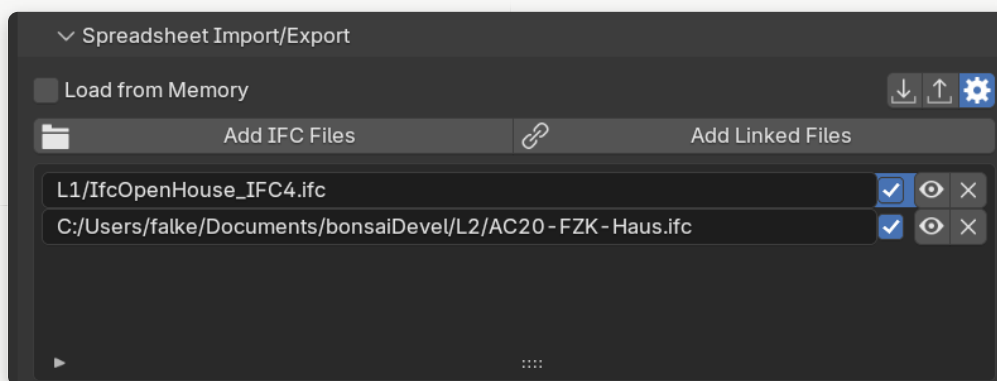
For example if we have these files linked in the project panel:



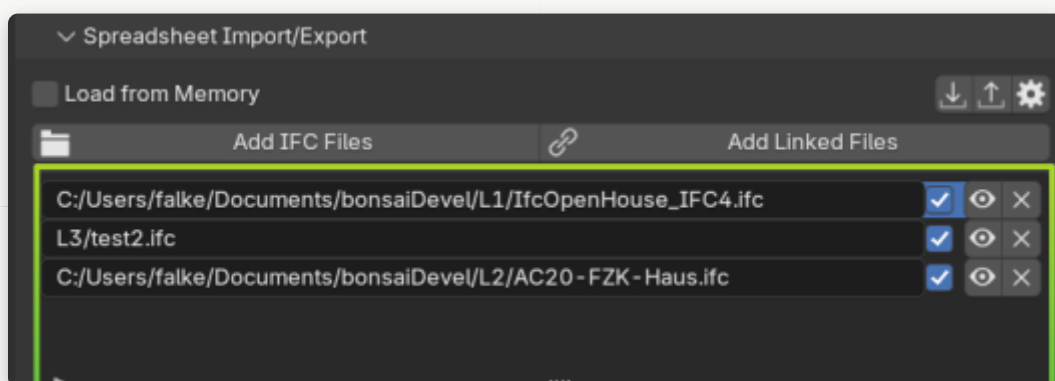
And we press “Add Linked Files”



We wil then get them populated in the list of files to be processed.



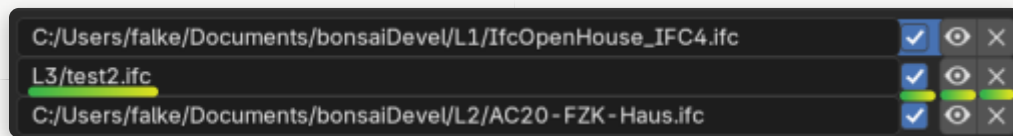
Once the file(s) are selected, you can see the list of files to be processed in the panel below.



Tip

You can include in this list the current IFC file loaded in the scene. This is useful if you want to export the current IFC file and other IFC files at the same time.

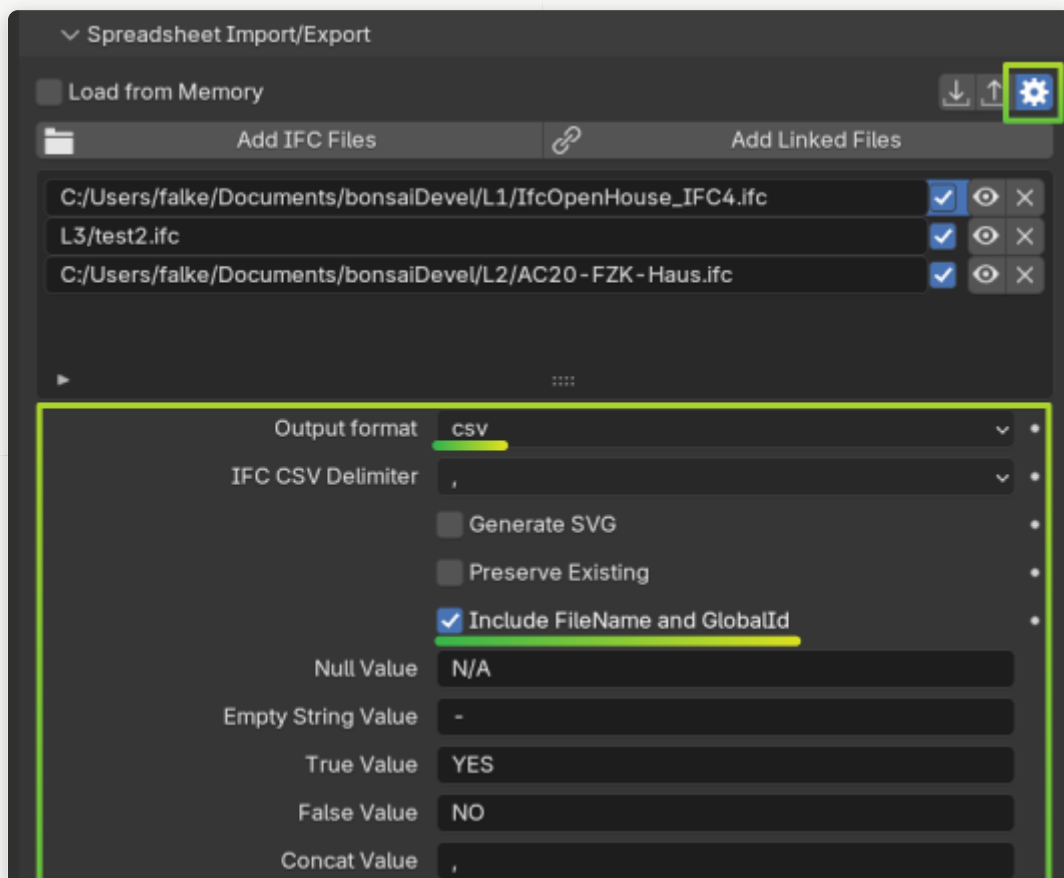
Each entry in the list has four fields:



From left to right this corresponds to:

- The file path (absolute or relative)
- A tick mark that allows you to select if the file will be processed or not,
- An “eye” icon that if you click it will span a new blender instance with the ifc file loaded. This is useful in case you want to do some adjustments (like performing quantity Take offs) before the file is processed.
- An X icon that if you click it will remove the file from the list.

2. Select the format you want your data to be exported to. For this you will need to click the gear icon in the top right corner of the panel. This will open a new panel with the options to select the format.

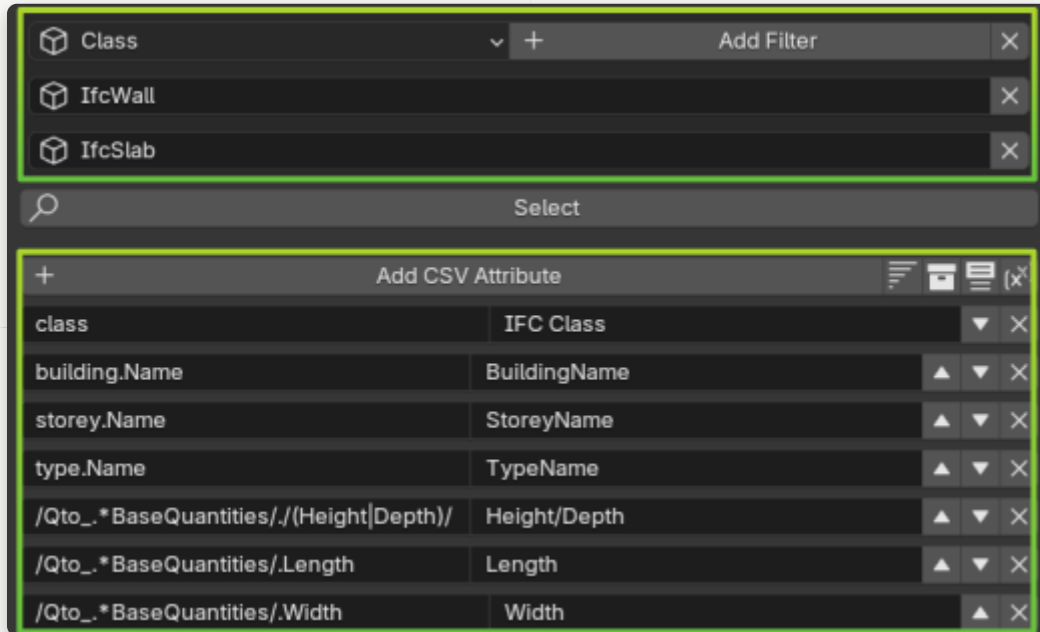


You can choose the format and tailor the output with several parameters.

Tip

When dealing with several files it is advisable to select the option “Include FileName and GlobalId” since that will help you to identify the elements in the spreadsheet. It will add two initial columns to the output with the file name and the GlobalId of the element.

3. Select the elements for the files that you want to export and from those elements the attributes that you want to export. The panel just below is divided into two parts:



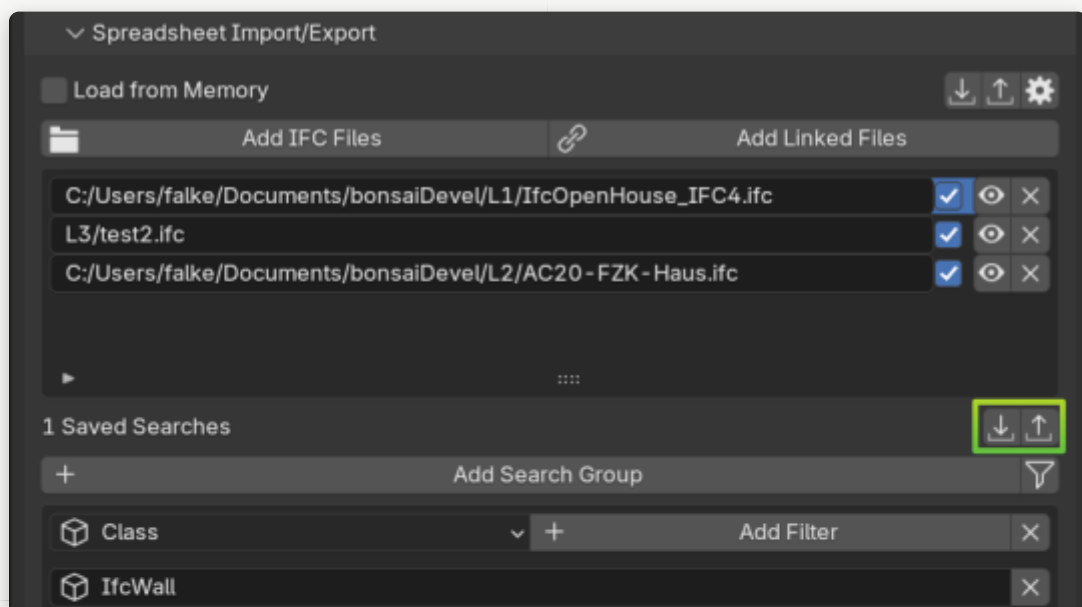
- The first part is the “Element Selection” part. Here you need to define a query that will filter from all the elements in the IFC files, the ones that you want to concentrate and gather information.
- The second part is the “Attribute Selection” part. Here you can select the attributes you want to export. The first column is the attribute in the IFC file and the second column is the name of the attribute in the spreadsheet. That is the header of the column in the spreadsheet.

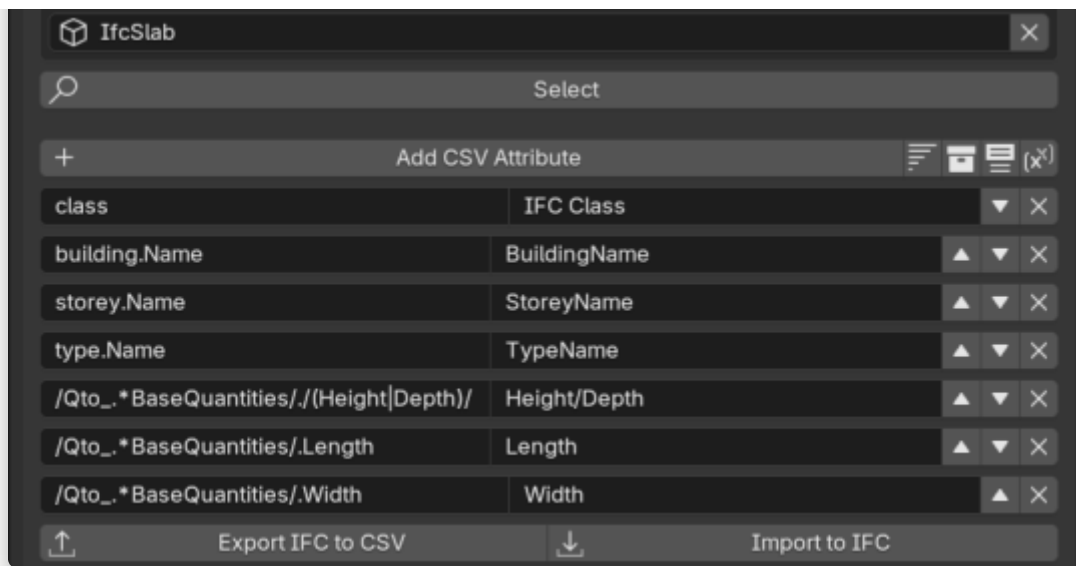
 Note

It is beyond the scope of this guide to provide details on how to create the queries for this panel. Please refer to the documentation [Selector syntax](#)

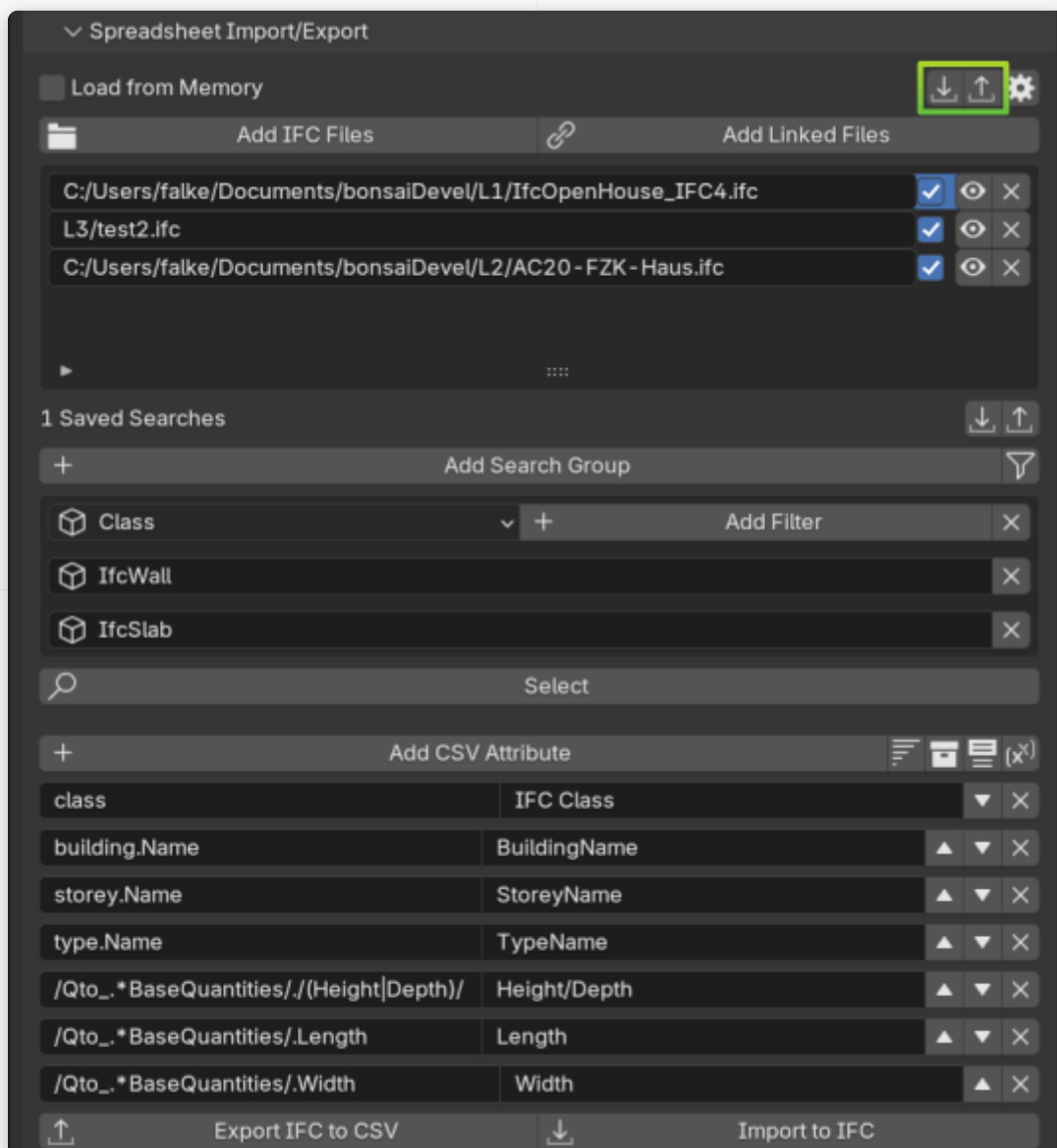
In order to help you with the queries, you can load a previously saved json template with the queries to select elements and the output format for the attributes.

You have the possibility of either load or save search queries:





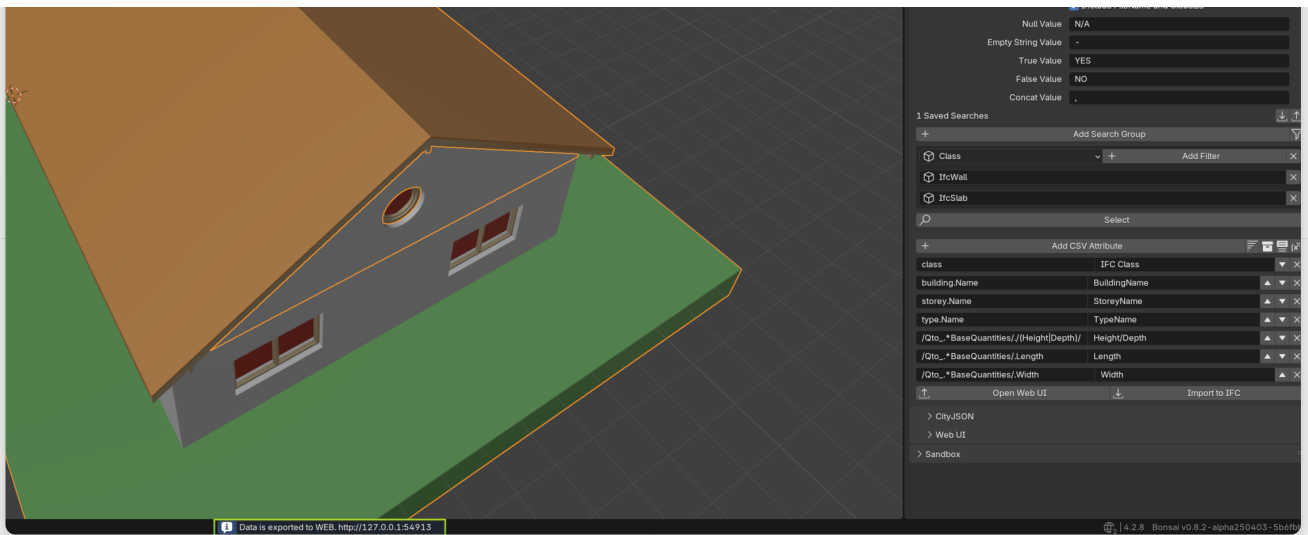
Or both load or save the search query plus the attribute selections:



4. Export to files or to a webserver. Finally we are ready to export our data. Depending on the format you selected in step two you will have “Export IFC to CSV”, “Export IFC to XLSX”, “Export IFC to ODS” or “Open Web UI”

- In the case of “Open Web UI”, After the button is clicked there will be a message in the bottom of the screen telling you the local address and port where to point your browser





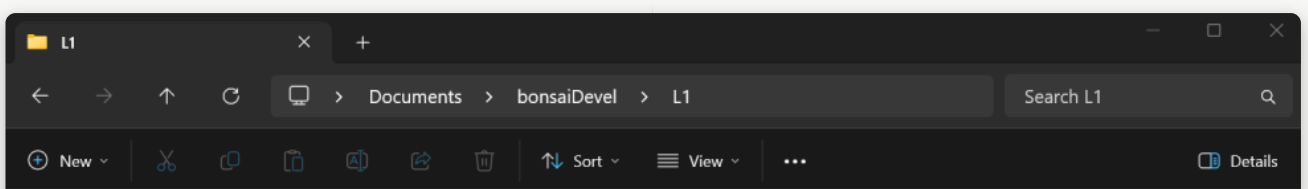
Note

Typically the Web Browser will be opened automatically. If not, you can copy the address and paste it in your browser.

Once the web page is opened, you will see a table with the data exported from the IFC files. You can filter the data by typing in the search box or by clicking on the column headers to sort the data. You can also export the data to CSV format by clicking on the button at the top left of the table.

FileName	GlobalId	IFC Class	BuildingName	StoreyName	TypeName	Height/Depth	Length	Width
sum: 0	sum: 0	sum: 0	sum: 0	sum: 0	sum: 0	sum: 23558.63359230564	sum: 50562.100000000006	sum: 7274.400946275786
IfcOpenHouse_IFC4.ifc	1hwEPyGUD1vwPpm508N9dQ	IfcWallStandardCase	N/A	N/A	N/A	5500.0	5000.0	360.0
IfcOpenHouse_IFC4.ifc	2KoBar2ptIAWBou8q\$ldGHy	IfcSlab	N/A	N/A	N/A	3260.00047313789	10200.0	2900.00047313789
IfcOpenHouse_IFC4.ifc	3g46_woBL6sugXeY5_WP6n	IfcWallStandardCase	N/A	N/A	N/A	3000.0	10000.0	360.0
IfcOpenHouse_IFC4.ifc	3hw7qrktPA8j6w3qKhwKm	IfcWallStandardCase	N/A	N/A	N/A	5500.0	5000.0	360.0
IfcOpenHouse_IFC4.ifc	3IPec2HcDCwepFjH2qz9q	IfcSlab	N/A	N/A	N/A	3260.00047313789	10200.0	2900.00047313789
IfcOpenHouse_IFC4.ifc	3xUPAVO39FGgNkCUQq4JV	IfcWallStandardCase	N/A	N/A	N/A	3000.0	10000.0	360.0
AC20-FZK-Haus.ifc	07Enbsqm9C7AQC8yBwISD	IfcSlab	FZK-Haus	Dachgeschoss	Solid 397409098 200	3.40636658822221	13.0	5.500000000000287
AC20-FZK-Haus.ifc	0knNIAVBPBfVBy_m5QVHsU	IfcWallStandardCase	FZK-Haus	Dachgeschoss	Leichtbeton 102890359 300	3.38675134594856	10.0	0.3
AC20-FZK-Haus.ifc	1\$wmdwWPjDYuku_ghVkyrE	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 240	2.5	3.5	0.24
AC20-FZK-Haus.ifc	16DNNqzrP2thfaOfivsKA	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 300	2.7	12.0	0.3
AC20-FZK-Haus.ifc	1bzrVsJqn8De5PukCrqlyz	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 300	2.7	12.0	0.3
AC20-FZK-Haus.ifc	1pPHnITcXCpPeNEnQ8_6B	IfcSlab	FZK-Haus	Erdgeschoss	Stahlbeton 65690 200	0.2	12.0	10.0
AC20-FZK-Haus.ifc	25OWQvmXj5BPgyergP43YI	IfcWallStandardCase	FZK-Haus	Dachgeschoss	Leichtbeton 102890359 300	0.673205080758975	12.0	0.3
AC20-FZK-Haus.ifc	25fsbPyk15VvuXlSyNKenK	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 300	2.7	10.0	0.3
AC20-FZK-Haus.ifc	2luUUNUVPB8Ob5eicCIP2N	IfcSlab	FZK-Haus	Dachgeschoss	Solid 397409098 200	3.40636658822221	13.0	5.500000000000287
AC20-FZK-Haus.ifc	2RGiQk4xH47RHk93zcTzUL	IfcSlab	FZK-Haus	Dachgeschoss	Solid 397409098 200	0.2	11.8	9.8
AC20-FZK-Haus.ifc	2XPYkVY018sA1ygZKqQPIU	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 240	2.5	4.29	0.24
AC20-FZK-Haus.ifc	2ptk1k7qn8_Ok22vjh\$0DE	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 240	2.5	3.71	0.24
AC20-FZK-Haus.ifc	3PIS_Y_DBAfq5naM6zD2Z	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 240	2.5	5.69	0.24
AC20-FZK-Haus.ifc	3Tjir\$59XEWWN1WUHjeIZ	IfcWallStandardCase	FZK-Haus	Dachgeschoss	Leichtbeton 102890359 300	0.673205080758975	12.0	0.3
AC20-FZK-Haus.ifc	3VCarUKgH1buLo22Ozxe6J	IfcWallStandardCase	FZK-Haus	Dachgeschoss	Leichtbeton 102890359 300	3.38675134594856	10.0	0.3
AC20-FZK-Haus.ifc	3jW3rL656ex34Gws22EIM	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 240	2.5	7.11	0.24
AC20-FZK-Haus.ifc	3rPX_Juz59peXXY6wDJI18	IfcWallStandardCase	FZK-Haus	Erdgeschoss	Leichtbeton 102890359 300	2.7	10.0	0.3

- In the case of “Export IFC to CSV”, “Export IFC to XLSX” or “Export IFC to ODS” you will see a message in the bottom of the screen telling you “Data is exported to ...” once finished. You can check the folder where the IFC files are located and you will see the files generated there.

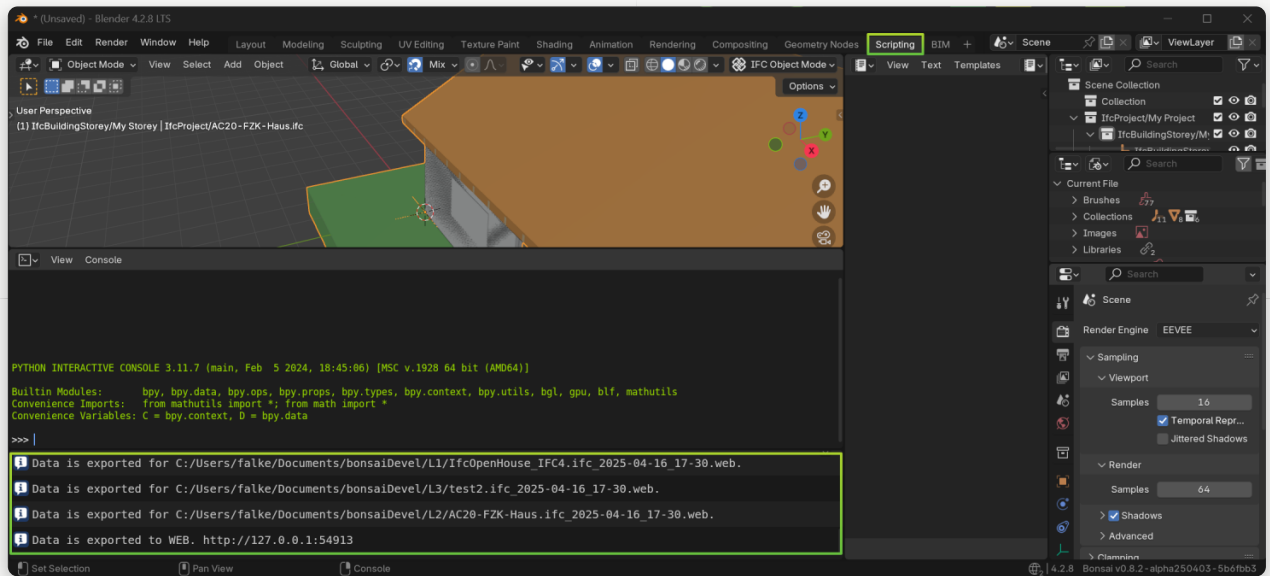


	Name	Date modified	Type	Size
	IfcOpenHouse_IFC4.ifc	2025-04-16 19:36	Industry Foundation ...	139 KB
	<u>IfcOpenHouse_IFC4.ifc_2025-04-16_19-46.csv</u>	2025-04-16 19:46	Hoja de cálculo de O...	1 KB

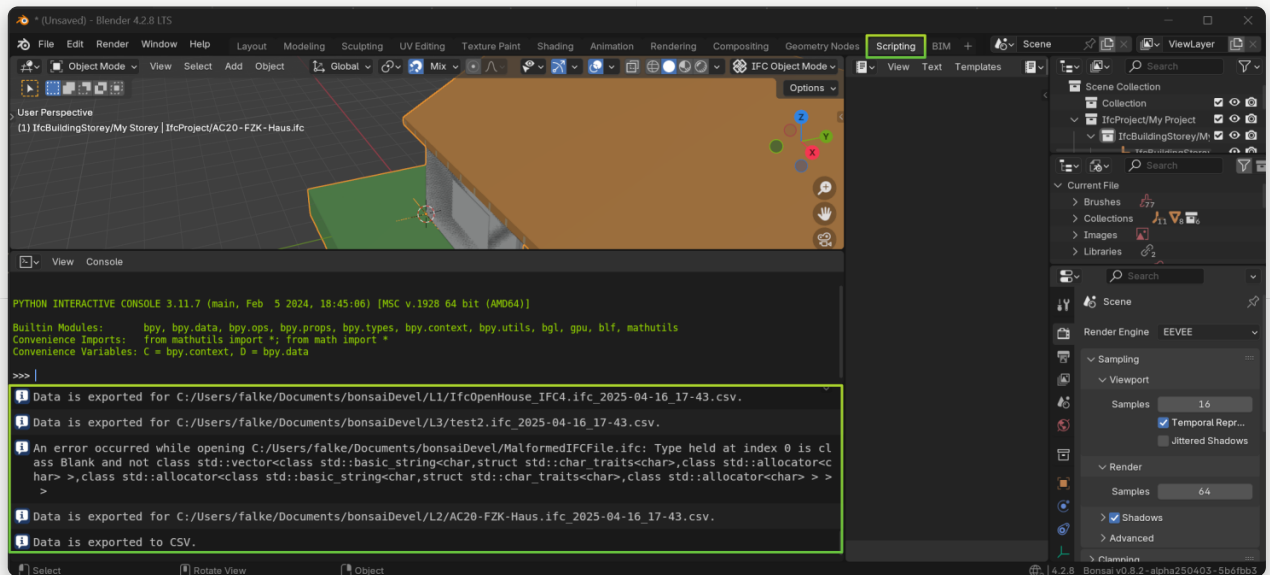
Tip

The files that are processed (or the ones that have failed) will be reported to the event log in the SCRIPTING tab. You can check those messages there.

Here an example for the case of output to the WEB. You can verify the http address and port where the web page is being served.



Here an example for the case of output to CSV. You can verify the files that are being generated, their names and if there has been some error in the process.



CONGRATULATIONS! and Happy Exporting.



