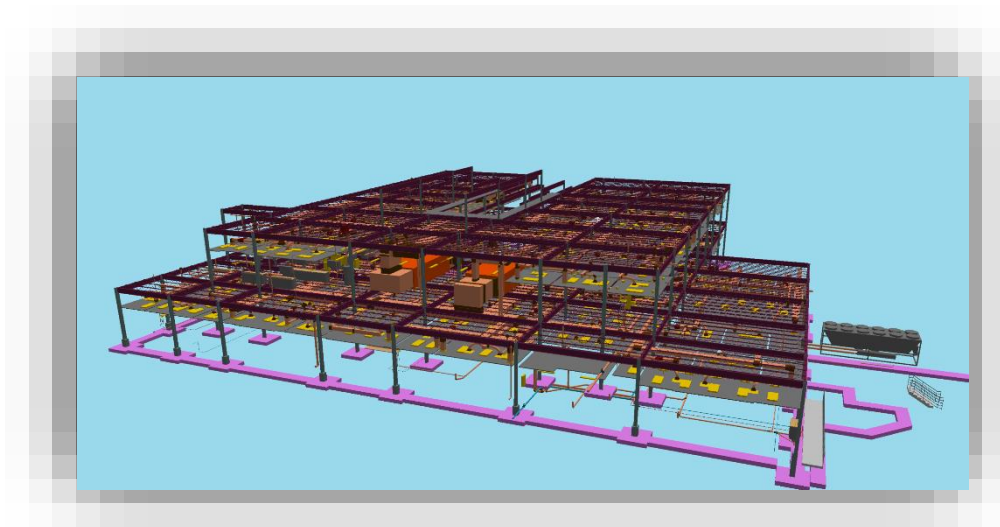




NEXT-BIM® Configurator : Formation



<https://www.next-bim.com/>
<https://www.next-bim.com/tutorials>

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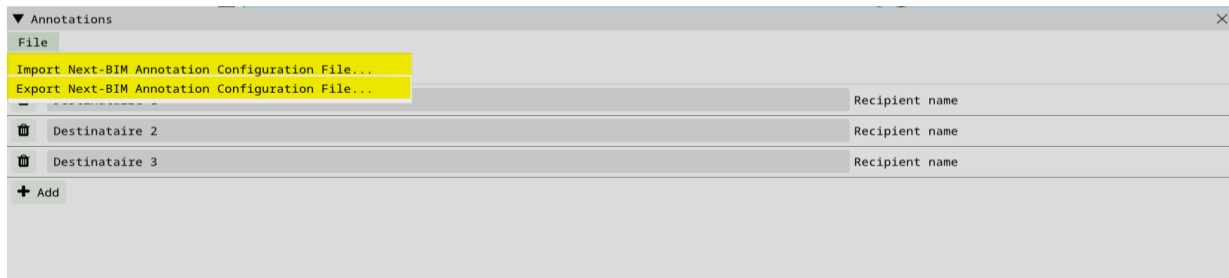
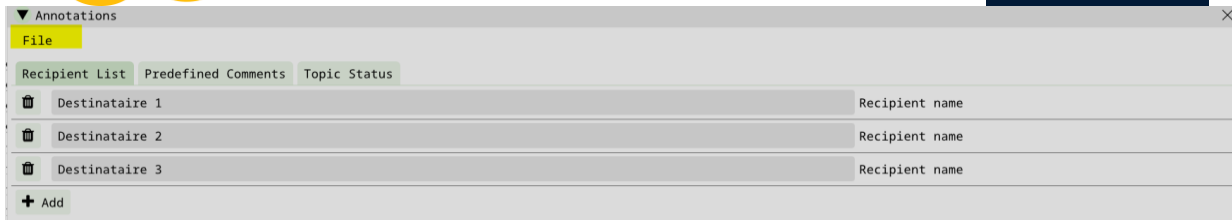


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I. Formats

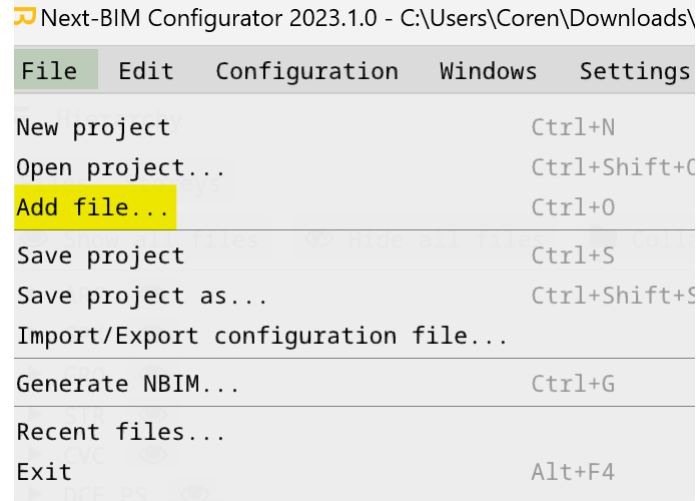
- .IFC → The .ifc format is a recommended format that can be converted by NEXT-BIM.
- Navisworks : To use the Navisworks plugin, the .NWD and .NWF formats are supported by NEXT-BIM Configurator. If you want to read another format supported by Navisworks, you need to convert your file to the .NWF format. You can find a list of supported formats here:
<https://help.autodesk.com/view/NAV/2023/ENU/?guid=GUID-1DD9E13D-7FEC-4936-B45E-C59E4A3E96EC>.
- .nbim → The .nbim format is the NEXT-BIM format used by the NEXT-BIM Explorer module. It allows you to visualize your projects in NEXT-BIM Explorer. NBIM files should be placed in the "document" folder of your Hololens 2.
-
- .nbim_project → The .nbim_project format is used to save your project on your PC, including the corresponding configuration, using relative paths. This means that all the necessary files for the project, along with the associated configuration, are saved locally on your computer with relative file paths. This helps to maintain the project's links and structure, even if you move or transfer the project to another location.
- .nbim_preconfig → The .nbim_preconfig format allows you to save configurations created during a project for later reuse. It saves configurations for all tools (annotations, materials, properties, etc.). Additionally, all configurations such as annotations, checklists, visibility lists, tabletop mode, etc., can be saved separately. In the desired configuration menu (for example: Configuration > Annotation), click on "File" > "Import/Export NEXT-BIM" and select the corresponding configuration file (annotation/checklist, tabletop, etc.). (See photo below)



A. Discover the functionalities

To open a file in NEXT-BIM Configurator, follow these steps:

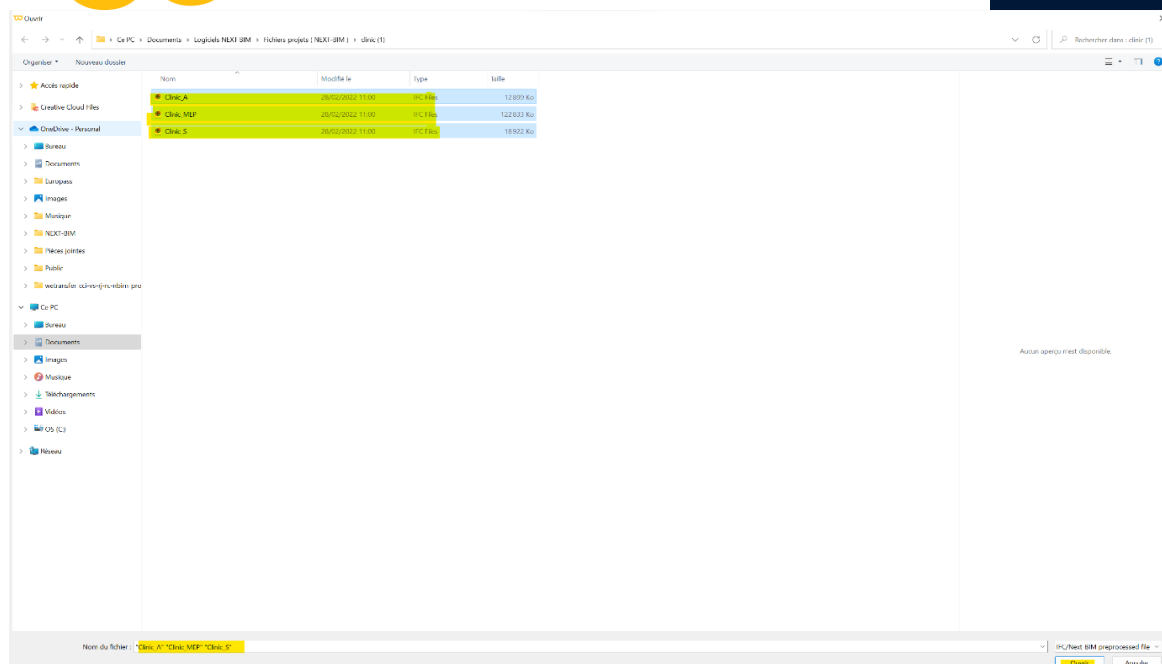
1. Go to the top menu "File"
2. Select the "Add File" option



To import .IFC files into NEXT-BIM Configurator, you can either select the desired .IFC files or import a compressed .IFCzip file.

Similarly, for .NWD or .NWC files, you can use the same method. Select the .NWD or .NWC files you want to import into the project.

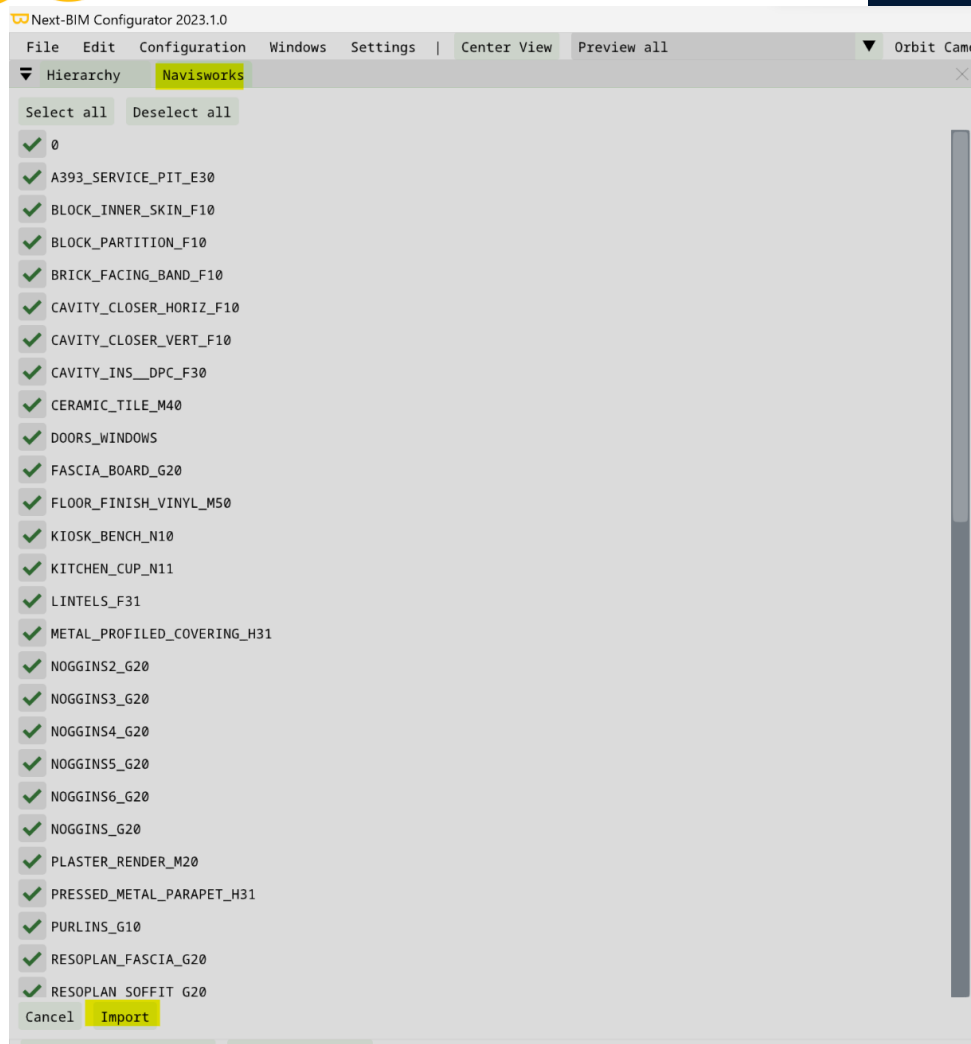
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When you open a file for the first time, the software performs triangulation on the file. It's important to wait for the triangulation process to complete before using the software's features. Triangulation is the process of converting the model into a format suitable for display and manipulation within the software.

During subsequent openings of the same file, the software imports the file from the cache area. In this case, triangulation is not performed as the file is already converted. This reduces the loading time, allowing quicker access to the software's features.

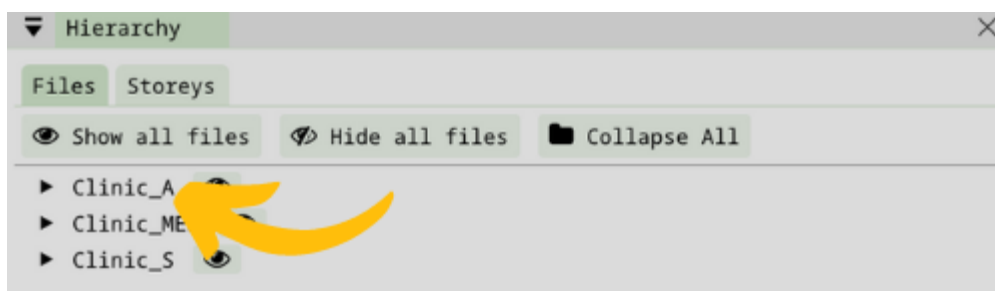
If you import files in .NWD or .NWC format, a "Navisworks" window will automatically open when the file is opened. This window allows you to select specific sub-files you want to import into NEXT-BIM Configurator from the source file.



B. Rename your files

To rename your files in NEXT-BIM Configurator, follow these steps :

1. Access the "Hierarchy" window in the software.
2. Right-click on the file you want to rename.



3. A dialog box will appear, allowing you to modify the file name. Enter the new name based on the appropriate technical discipline.

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By renaming your files according to the technical disciplines, you facilitate their usage in NEXT-BIM Explorer and avoid overly long names, making file management more convenient and intuitive.

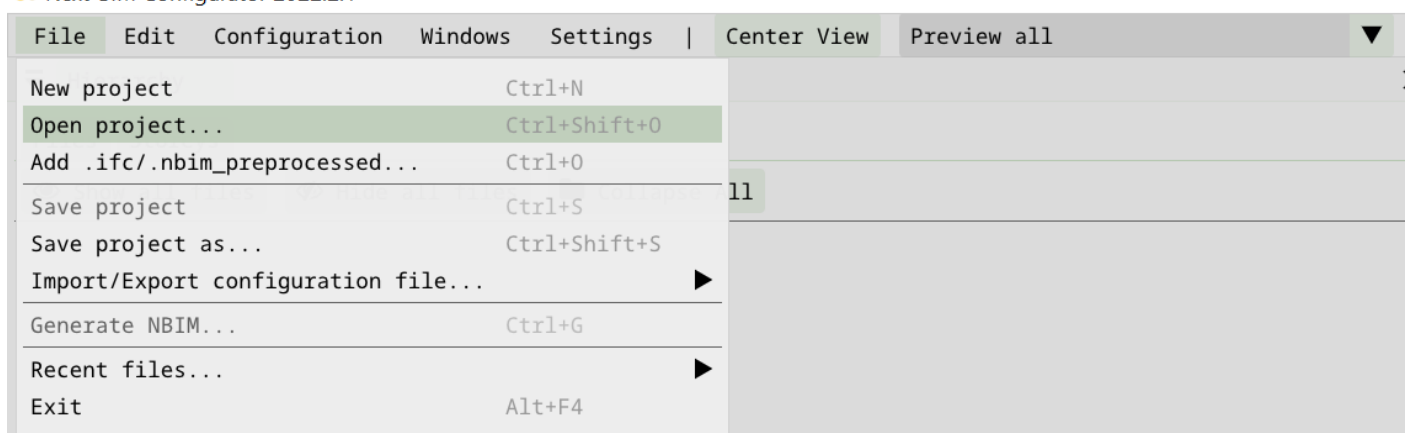
C. Open an existing project

To open an existing project in NEXT-BIM Configurator, follow these steps :

1. Click on the "File" menu in the top menu bar of the application.
2. From the dropdown menu, select "Open project."
3. A file explorer window will open.
4. Navigate to the location where the project file is saved.
5. Select the project file you want to open.
6. Click the "Open" button in the file explorer window.
7. The selected project will then be opened in NEXT-BIM Configurator, and you can work on it with all the available functionalities.

Make sure to locate and select the correct project file you want to open in the file explorer to ensure the project is opened correctly.

Next-BIM Configurator 2022.2.1



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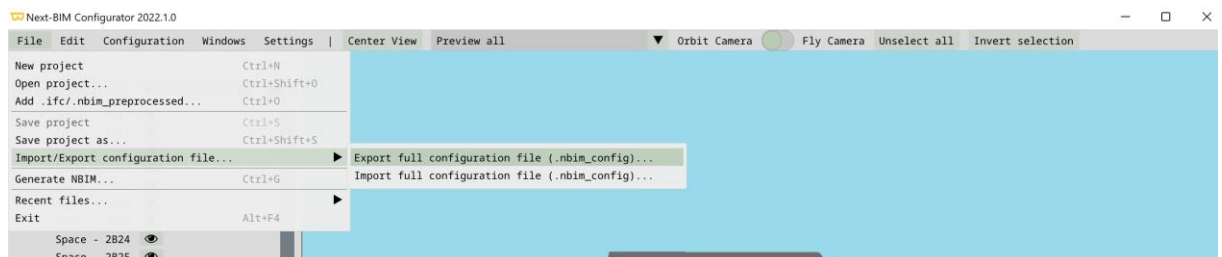


D.Import/export a configuration (.nbim_config)

To save the configuration in NEXT-BIM Configurator, follow these steps:

1. Click on the "File" menu in the top menu bar of the application.
2. From the dropdown menu, select "Import/export configuration file."
3. In the submenu, choose "Export full configuration file."
4. A file explorer window will open, allowing you to choose the location to save the configuration file.
5. Select a location on your PC where you want to save the configuration file.
6. Give an appropriate name to the configuration file and click the "Save" button.

By following these steps, you can export and save the full configuration file in NEXT-BIM Configurator for future use.

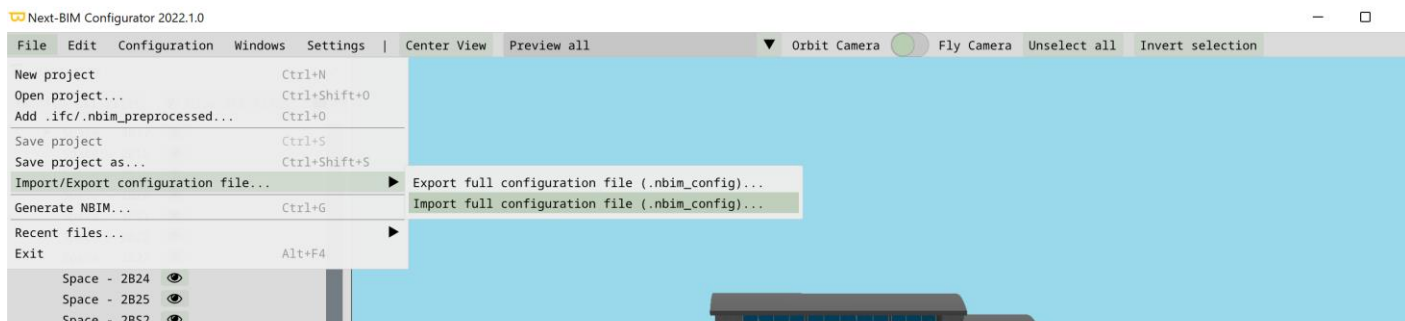


To import a previously saved configuration into a project in NEXT-BIM Configurator, follow these steps:

1. Click on the "File" menu in the top menu bar of the application.
2. From the dropdown menu, select "Import/export configuration file."
3. In the submenu, choose "Import full configuration file."
4. A file explorer window will open.
5. Navigate to the location where you previously saved the exported configuration file.
6. Select the desired configuration file from your documents.
7. Click the "Open" button to import the configuration into the current project.
8. Ensure that you select the correct configuration file during import/export to avoid any confusion.



By following these steps, you can import a previously saved configuration file into your project in NEXT-BIM Configurator, allowing you to reuse configurations and streamline your workflow.

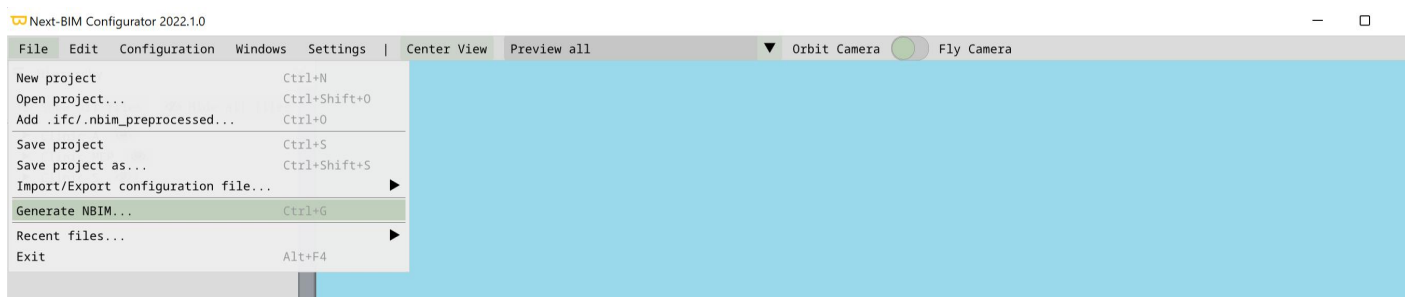


E. Generate a .NBIM File, the NEXT-BIM Explorer format (generate .nbim)

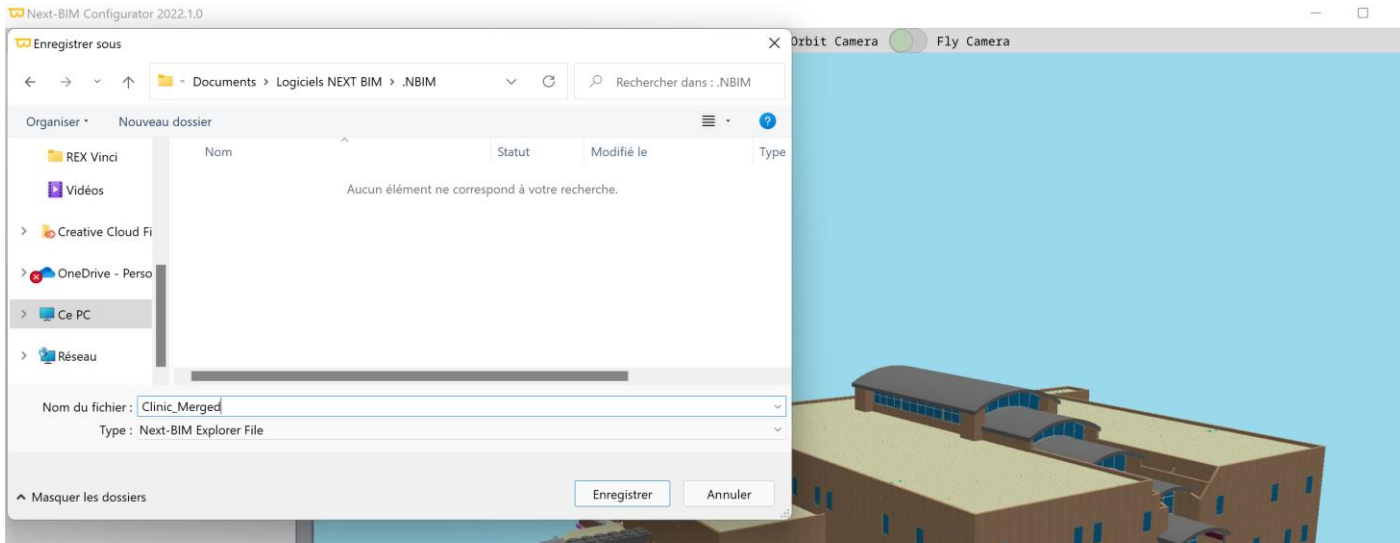
To generate the .nbim file for Hololens in NEXT-BIM Configurator, follow these steps:

1. Click on the "File" menu in the top menu bar of the application.
2. From the dropdown menu, select "Generate NBIM."
3. A file explorer window will open, allowing you to choose the location to save the .nbim file.
4. Navigate to the desired location in your file explorer.
5. Give an appropriate name to the .nbim file.
6. Click the "Save" button to save the .nbim file to the specified location.
7. The generated .nbim file can then be transferred and used on your Hololens. Make sure to save the .nbim file in a location accessible from your Hololens so that you can load and use it within your Hololens application.

By following these steps, you can generate the .nbim file for use with Hololens in NEXT-BIM Configurator, enabling you to view and interact with your projects in the Hololens environment.



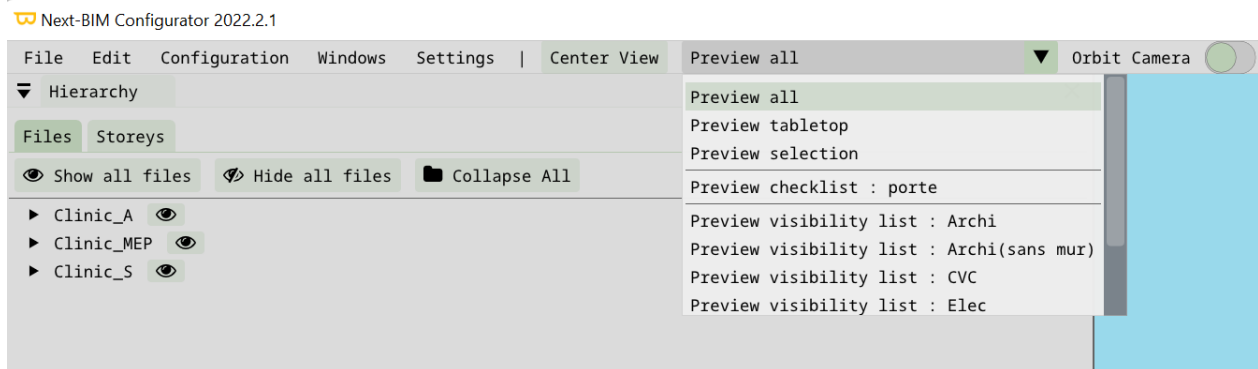
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II. 3D View

1. Preview (Display 3D view)

In the menu bar, a drop-down menu lets you control what you see in the 3D view.



- Preview all: all files are displayed, similar to the .NBIM file.
- Preview tabletop: previews the display in tabletop mode

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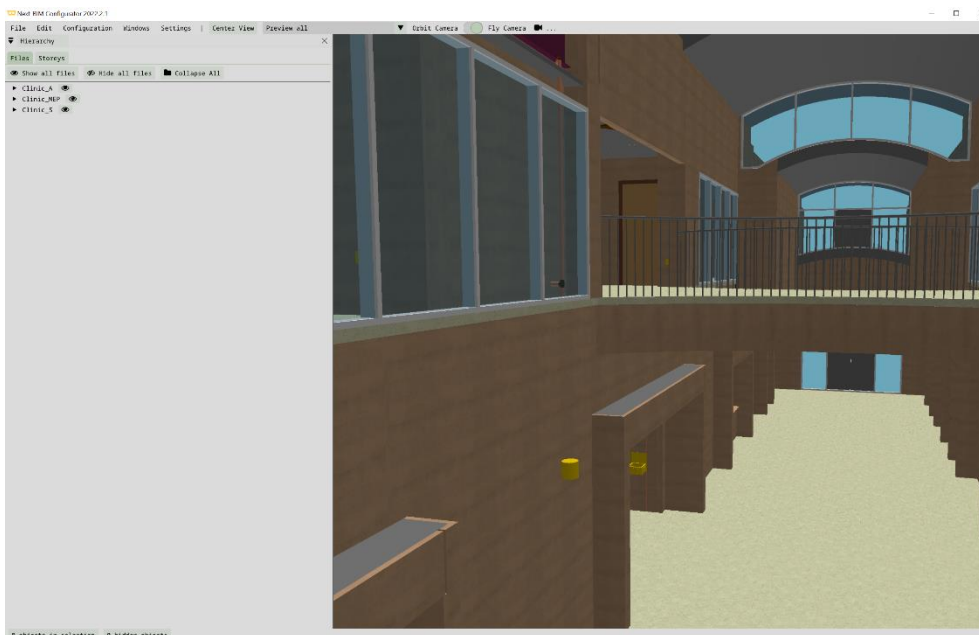
- Preview selection: displays only objects in the selection list
- Preview checklist: displays only objects in the checklist
- Preview visibility list: preview a visibility list

2. Camera control

- Rotate: left-click + move mouse
- Shift point of view: right-click + move mouse
- Zoom: mouse wheel
- In Orbit mode, the camera rotates around the point of view; in Fly mode, the camera turns on itself.

3. Center view

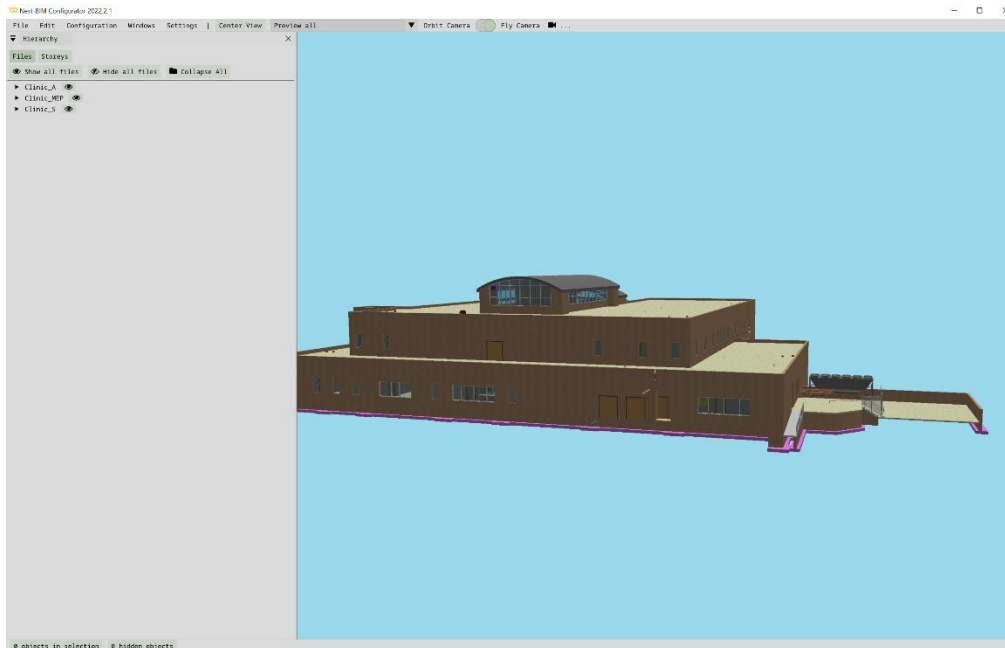
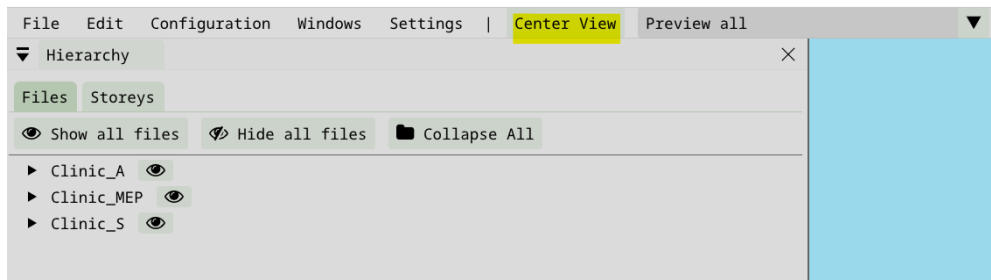
Center view to return to initial view.



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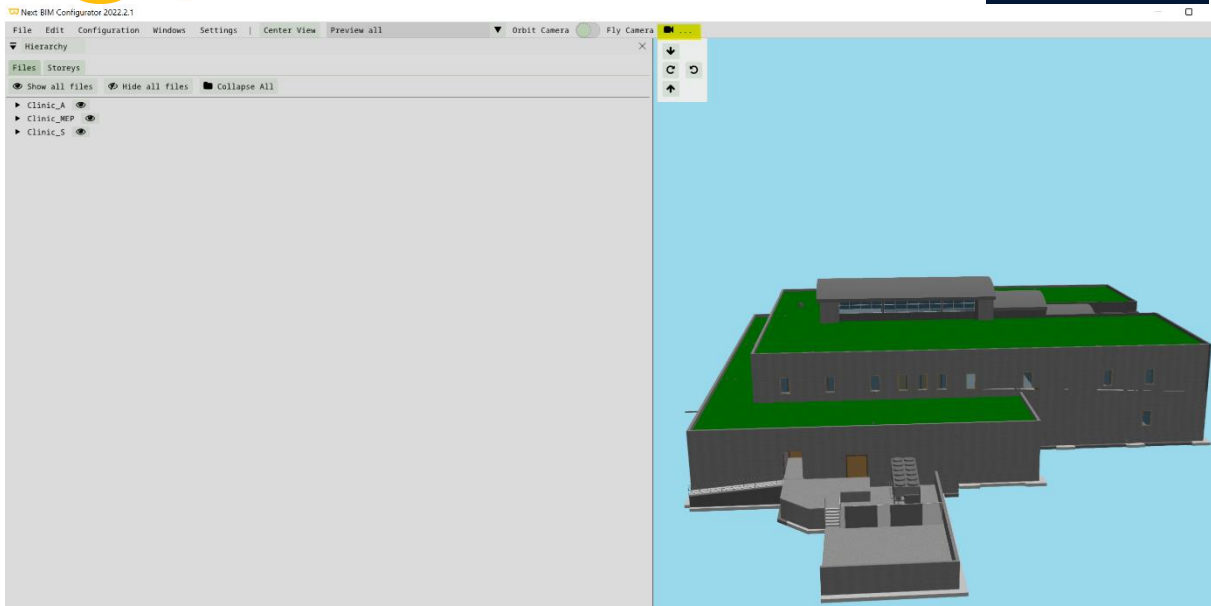






4. Quick view display (top, bottom, side view)

Click on the camera icon to quickly display a specific view.



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-  : 3D view from above
-  : 3D left side view
-  : 3D right side view
-  : 3D view from below

III. Selection

The selection list allows you to perform actions on several objects at the same time. To add or remove objects from the selection list, several options are available:

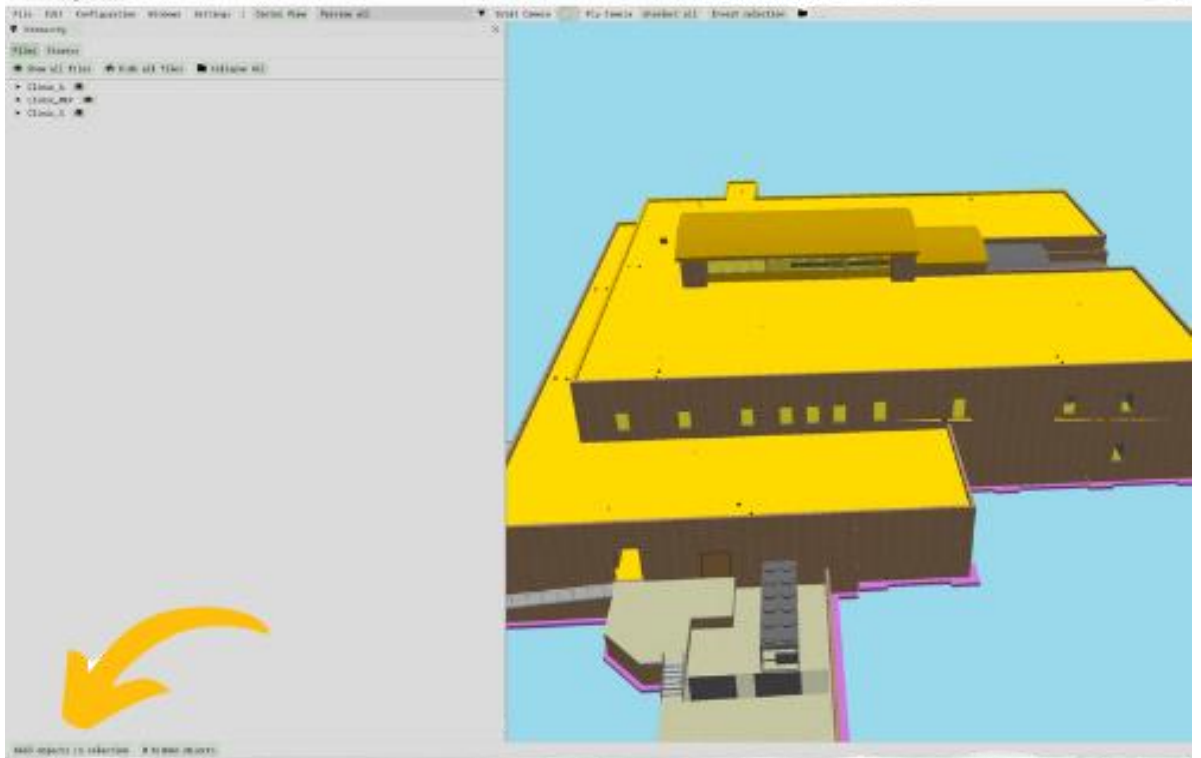
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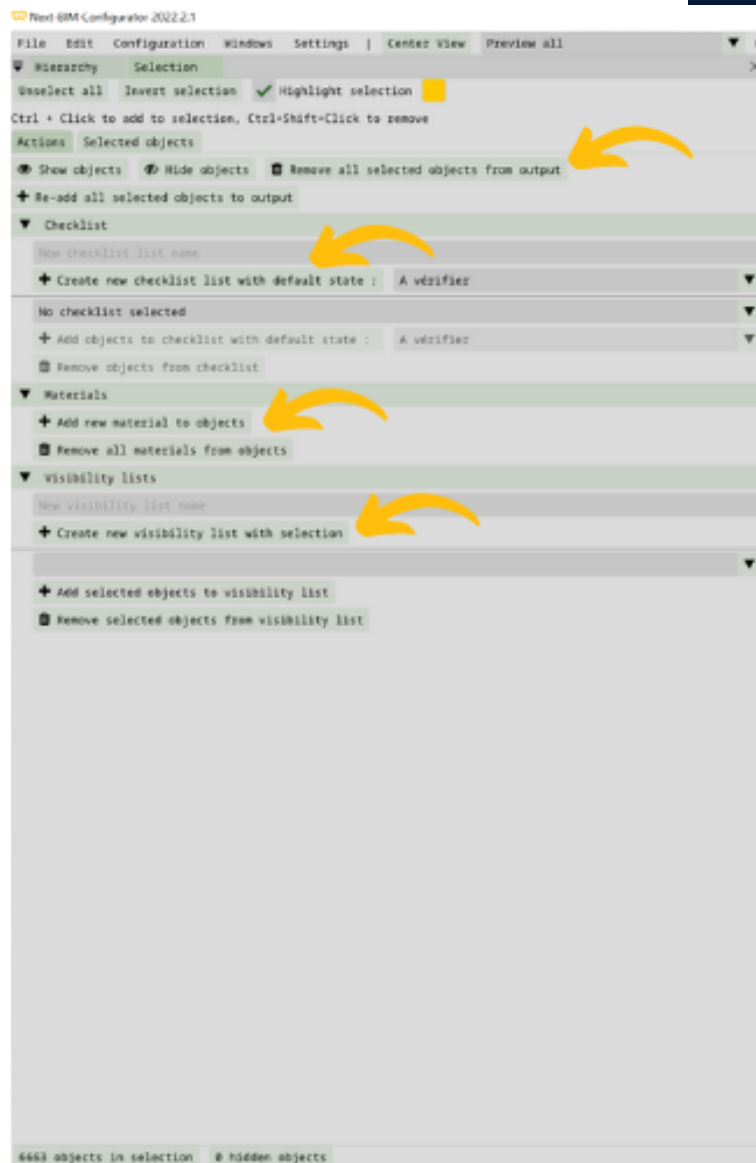
- In the Hierarchy window or 3D View, right-click on an object to display the context menu.
- In 3D View, hold down the CTRL key and left-click on the objects you wish to select.
- Use the search function to find specific objects. In the top menu, "Edit" > "Find".

To configure the selection in NEXT-BIM Configurator, follow these steps:

1. Access the selection window:
 - At the bottom left of the software, click on the link indicating the number of objects in the selection. For example, "X objects in selection".
 - Alternatively, you can access the selection window using the top menu. Click on "Windows" then select "Selection".
2. Use the actions available for selection :
 - Once the selection list contains objects, you'll see various actions available in the selection window.
 - Possible actions include :
 - Remove all selected objects from .nbim file generation. > "Removed object from output"
 - Add or remove objects from the selection list:
 - Convert your selection into a checklist using the "Create new checklist with default state" option.
 - Color selected objects using the "Add new material to objects" option.
 - Create a visibility list corresponding to your selection using the "Create new visibility list with selection" option.



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- "Remove all selected objects from output": deletes objects when .nbim is generated
- "Create new checklist with default state": allows you to convert your selection into a checklist
- "Add new material to objects: color selected objects
- "Create new visibility list with selection": creates a visibility list corresponding to your active selection.

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A. Selecting an object from the model

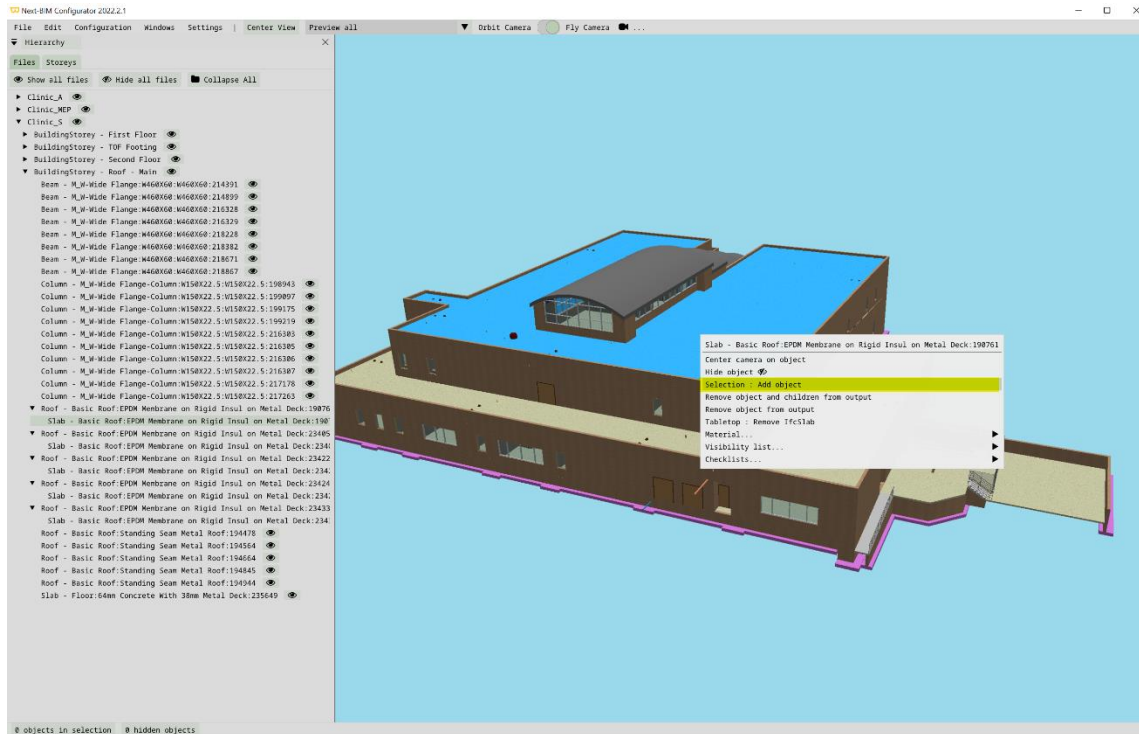
To select an object from the model in NEXT-BIM Explorer, follow these steps:

1. Right-click on the object in the model: Locate the object you wish to select in the 3D model and right-click on it.
2. Add object to selection: In the pop-up menu that appears, select the "Add object to selection" option. This will add the object to your selection list.
3. Display selected objects : Objects you have selected will be automatically highlighted to make them easier to distinguish in the model. They will be visually highlighted.
4. Customize highlight color: In the "Selection" panel, you can change the highlight color of selected objects. To do this, click on the corresponding color box and select the desired color. You can also uncheck the "Highlight selection" box to completely deactivate the highlight color on selected objects. However, it is recommended to leave this feature active to facilitate viewing of selected objects.

By following these steps, you can select individual objects from the model in NEXT-BIM Configurator and customize the way they are highlighted for greater visual



distinction.



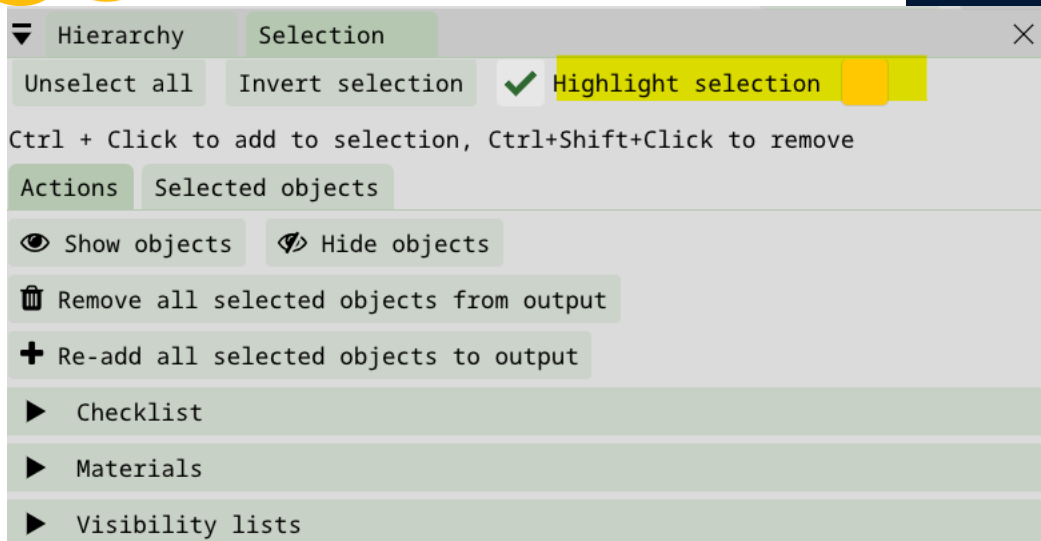
The selected object is added to your selection

1 objects in selection

Selected objects are automatically highlighted.

In the "Selection" panel, change the highlight color by clicking on the color box, or uncheck the "Highlight selection" box to deactivate the highlight color on selected objects (we recommend you leave this feature active).

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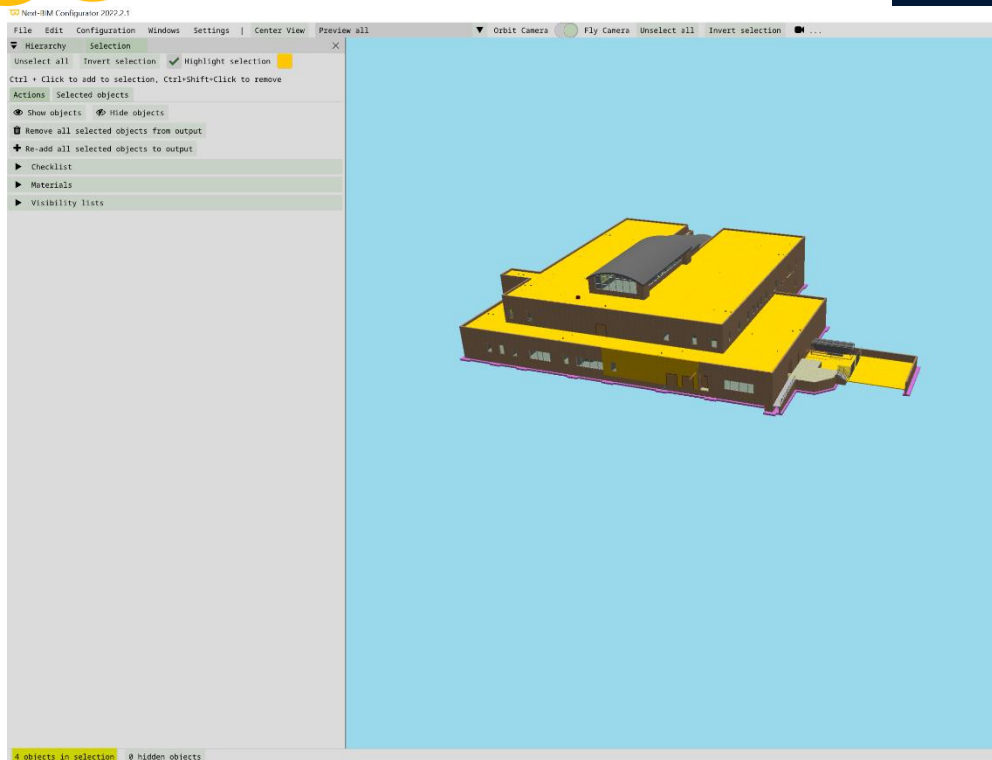


B. Multiple selection

To perform multiple object selection in NEXT-BIM Configurator, follow these steps::

Option 1 :

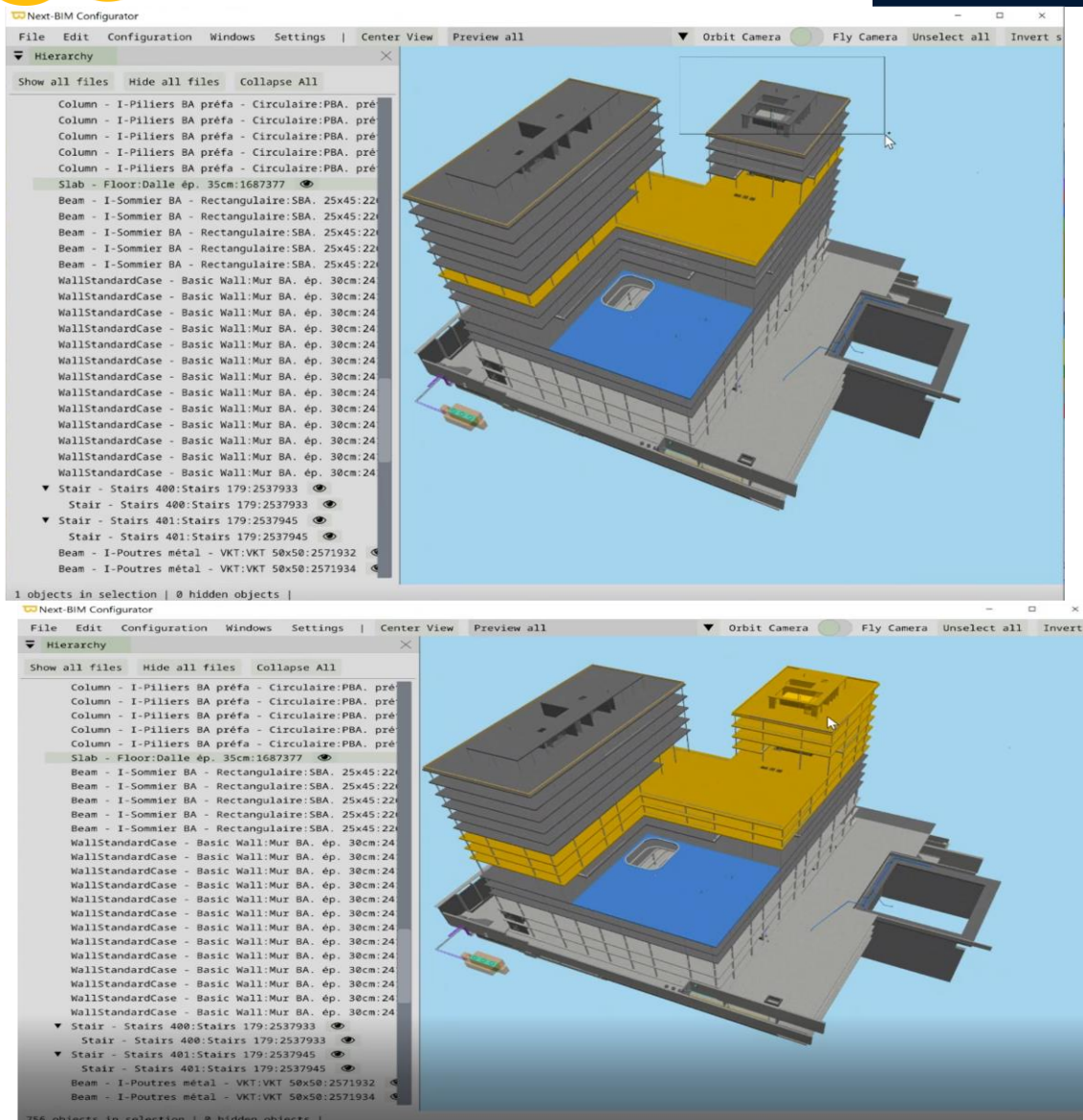
1. Hold down the "Ctrl" key: Before starting your multiple selection, hold down the "Ctrl" key on your keyboard. This will enable you to select several objects simultaneously.
2. Left-click on objects: While holding down the "Ctrl" key, left-click on the objects you wish to select. You can click on each object individually to add them to your selection.



Option 2 :

1. Selection area: If you wish to select several objects at once, hold down the left mouse button and drag the mouse to create a selection area. All objects within this area will be selected at the same time.

To create a selection with a selection box, hold down the "Ctrl" key and left-click to define the top left corner of the selection box, then drag to define the bottom right corner of the selection box. All objects inside this box will be selected.



All selected objects are now highlighted and displayed in my selection at the bottom left of the screen (756 objects in selection).

Option 3

Use the "Edit > Find" tool to perform a search and add the results to the selection.

NEXT-BIM Configurator features a powerful search tool that lets you search for objects in the model according to various criteria such as name, properties, levels, etc. You can also add the search results to your current selection. You can also add search results to your current selection. Here's how it works:

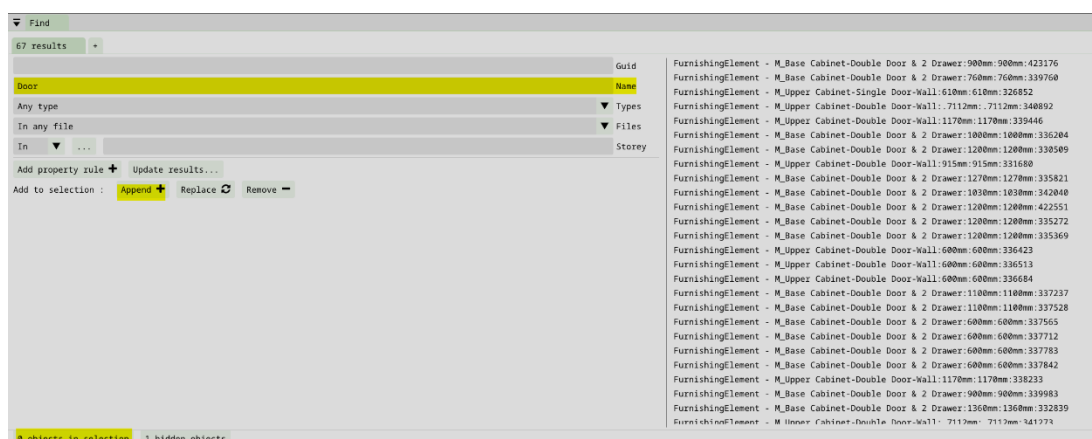
1. In the top menu of NEXT-BIM Configurator, click on "Edit".
2. In the drop-down menu, select the "Find" option. A search window will open.

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3. In the search window, you can specify search criteria, such as object name, specific property, level, etc. Enter the appropriate search information in the corresponding fields.
4. Click on the "Search" button to launch the search. Objects matching the search criteria will be displayed in the search results window.
5. To add the objects from the search to your selection, click on "Append" or "Replace" if you already have objects in the selection and no longer wish to have them in your selection.
6. The objects searched for will be added to your current selection.

This lets you use the "Edit > Find" tool to perform a specific search in the model and add the corresponding objects to your selection. It's a handy way of broadening your selection according to certain search criteria. d'élargir votre sélection en fonction de certains critères de recherche.



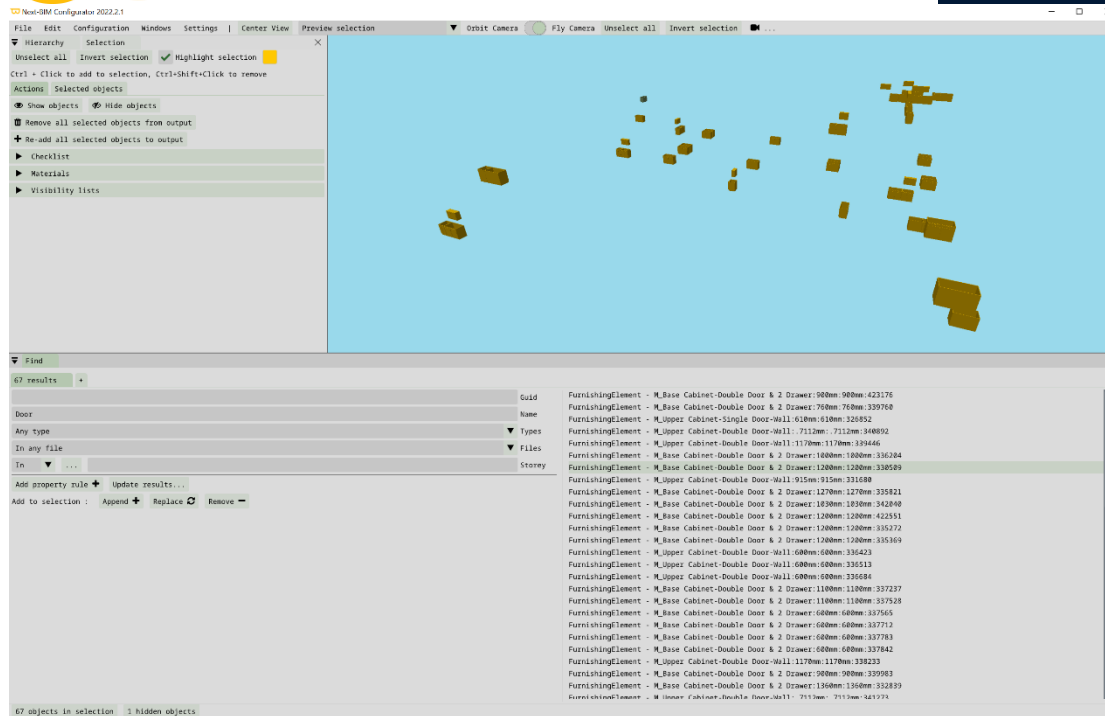
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Result of our selection view: All objects with "Door" in their name.

To display the result of your selection, please follow these steps:

1. Perform a search using the term "Door" in the search bar.
2. Select all objects containing "Door" in their name using the "append" button.
3. In the 3D view, you should now see only those objects that match your search, i.e. all objects containing "Door" in their name.
4. Make sure you're in "Preview selection" mode.



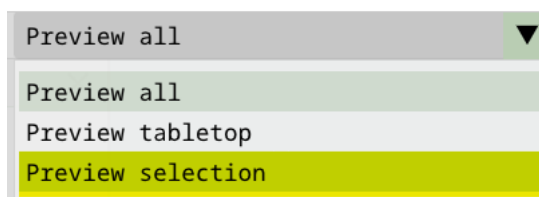
Display selected objects: Once you have completed your selection, all selected objects will be highlighted in the 3D model. They will also be listed in the selection window at the bottom left of the screen, where you can see the number of objects selected.

Following these steps, you can make multiple object selections in NEXT-BIM Configurator by holding down the "Ctrl" key and left-clicking on individual objects, or by making a selection area to select several objects at once.

C. Display your selection

To view your selection in NEXT-BIM Configurator's 3D view, use the "Preview selection" option available in the software. Here's how to proceed:

1. In the top menu, click on the "Preview All" drop-down menu

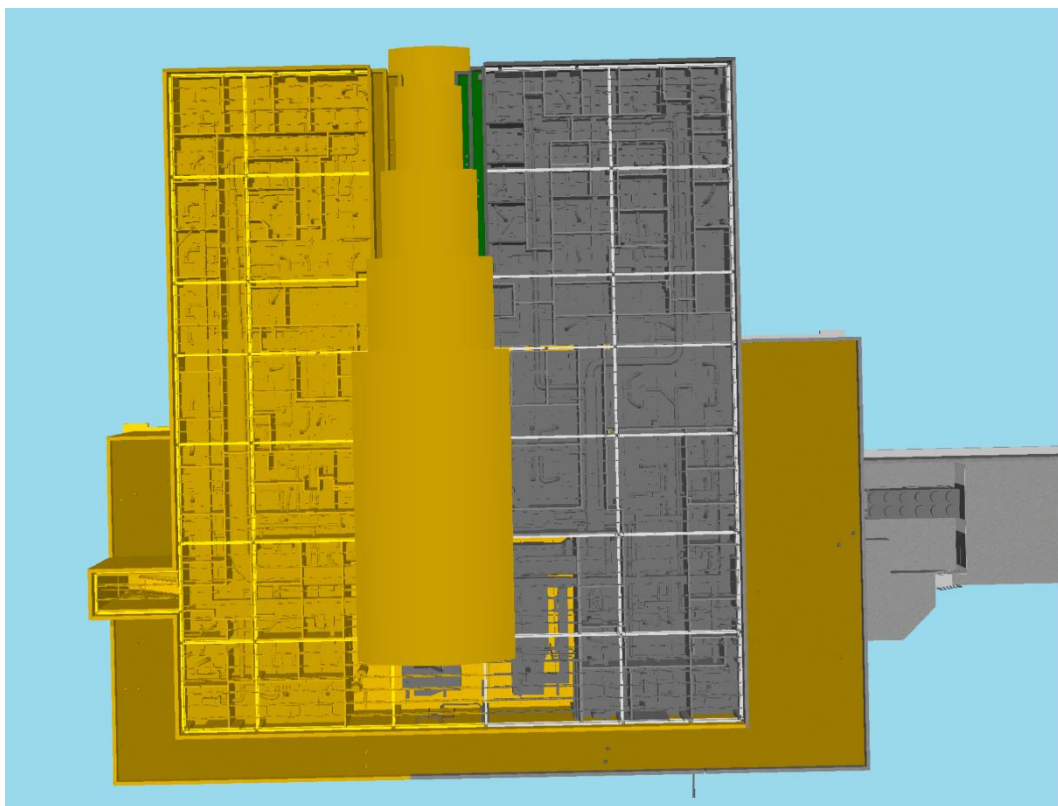


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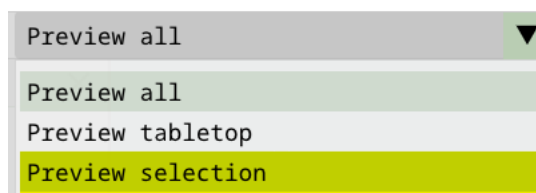


2. Then click on the "Preview selection" button. This will activate the preview selection feature.
3. Once Preview Selection is activated, all the objects you have selected will be highlighted in the 3D view of the model. This allows you to see them clearly in relation to other objects not included in the selection.

The "Preview selection" option is useful for checking and confirming the objects you have selected, by highlighting them in the 3D view. This makes it easier to check your selection and ensure that the right objects are included.

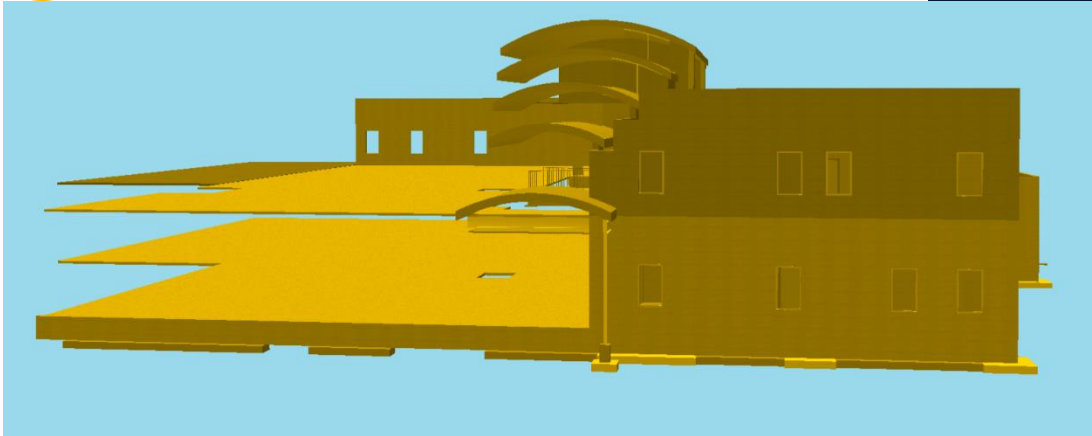


Preview selection



View of the selection ;

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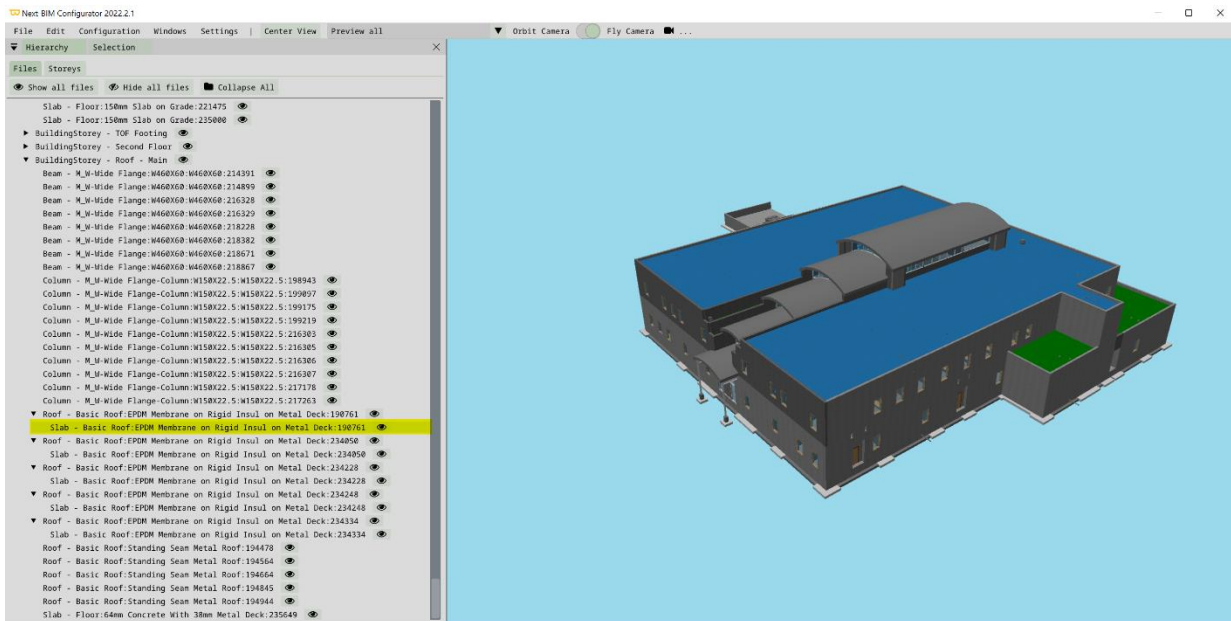
IV. Inspecting

A. Inspect an objet

To inspect an object in NEXT-BIM Configurator, you have several options:

1. Click on the object in the 3D view: By left-clicking on an object in the 3D view, it will be highlighted in blue. At the same time, the hierarchy will scroll down to this object, highlighting its position in the overall file structure. This allows you to visualize its position in the object hierarchy.
2. Double-click on object in hierarchy: If you prefer to use the hierarchy to inspect an object, you can double-click on the desired object in the hierarchy. This will have the effect of centering the object in the 3D view, putting it at the center of the view. This allows you to examine it more closely and work with it more easily.

The object will then be highlighted in blue in the 3D view and the hierarchy will scroll down to this object, highlighting its location in the overall file structure. This allows you to visualize its position in the object hierarchy.



To center an object in the 3D view using the hierarchy, simply double-click on the desired object in the hierarchy. This will refocus the 3D view on that object, bringing it into the center of the view. This allows you to examine the object more closely and work with it more easily.

B. Inspecting object properties (properties)

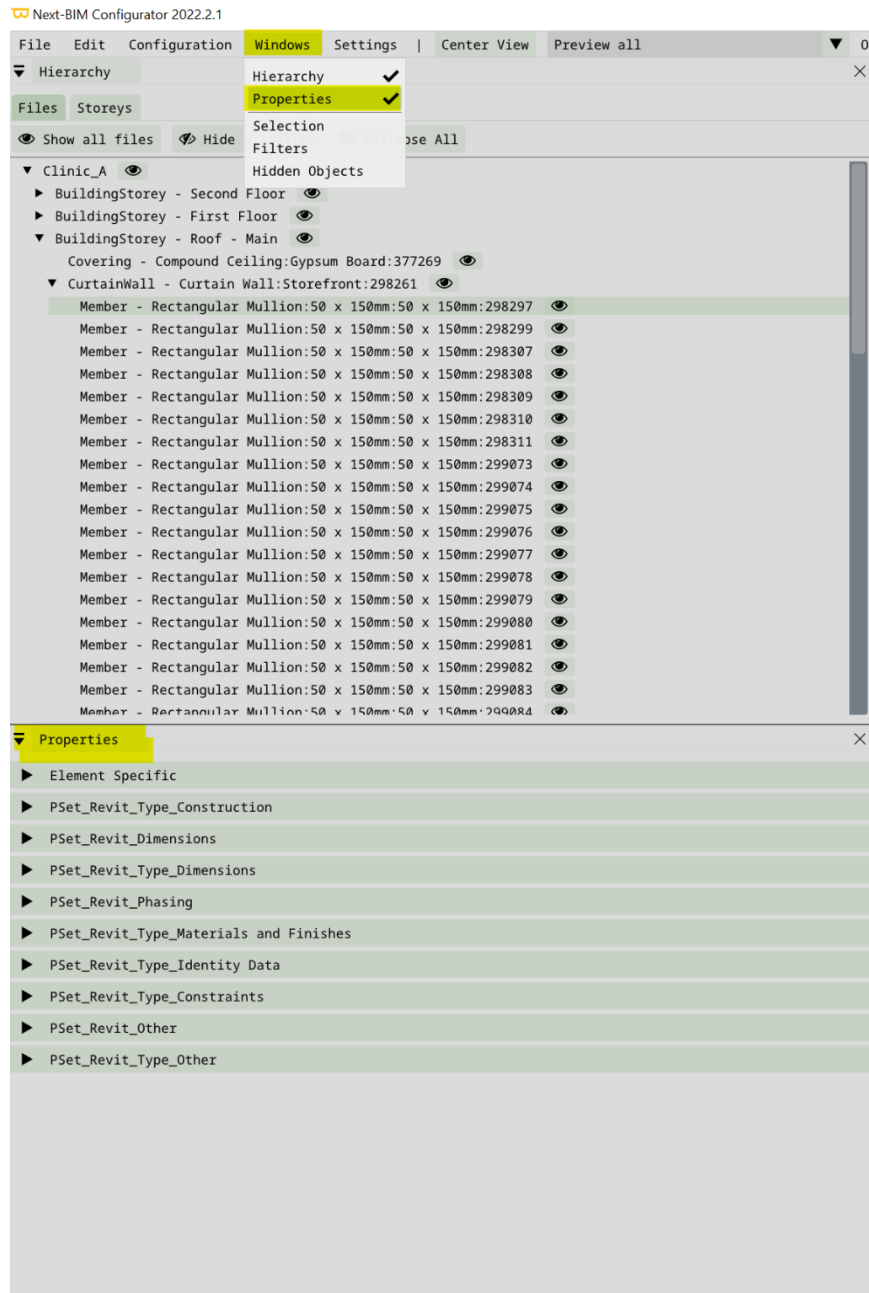
To view the properties of an inspected object in NEXT-BIM Configurator, follow these steps:

1. In the application's top menu bar, click on "Windows".
2. In the drop-down menu that appears, select "Properties".
3. A "Properties" window will open, displaying the properties of the object currently being inspected.
4. When you click on an object in the 3D view and it is highlighted in blue, its properties will be displayed in the "Properties" window.

You can browse the various properties of the object, such as its name, dimensions, materials, etc.

This feature allows you to inspect and view the detailed properties of the objects in your project, giving you additional information and a better understanding of each object's characteristics. It also provides you with the property information you need to sort your objects when creating filters by property.

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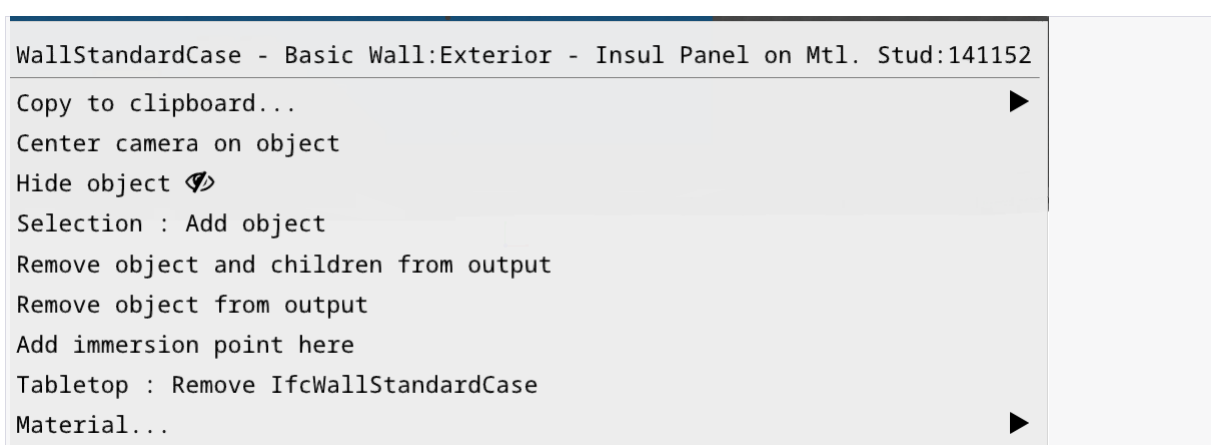
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



v. Contextual Menu

To access the contextual menu of an object in NEXT-BIM Configurator, you can right-click on the object, whether it is in the 3D view or in the hierarchy. By doing this, a contextual menu will appear with a list of options and specific functionalities for that object.

Here are the available options in the contextual menu:



- Copy: This option allows you to copy the name, GUID, or IFC type of an object ("Copy to clipboard").
- Apply Color + Texture: If you want to apply a specific material to the selected object, you can use this option to access a list of materials and choose the one you want to apply ("Add material").
- Hide/Show Object: This option allows you to hide or show the object in the 3D view. This can be useful for simplifying the visualization or focusing on specific parts of the model ("Hide object").
- Remove Object from .NBIM File: If you want to remove the object from the model, this option allows you to do so ("Remove object from output").
- Add/Remove IFC Class from Tabletop Mode: This option allows you to add or remove the IFC type from the Tabletop mode ("Tabletop: Remove IFC class from tabletop").
- Add Object to Selection: This option allows you to add an object to your selection ("Selection: add object").

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- Add Immersion Point on this Object: This option allows you to place an immersion point on the object ("Add immersion point here").

By using the contextual menu in NEXT-BIM Configurator, you can perform various actions and access specific functionalities related to the selected object, enhancing your workflow and interaction with the model.

VI. Hierarchy - File tree structure

Open files appear in your hierarchy.

Click on the file to open its hierarchy.

In NEXT-BIM Configurator, the "Hierarchy" window displays your project's file tree. You can follow these steps to use the hierarchy:

1. From the top menu, open the "Windows" > "Hierarchy" window in NEXT-BIM Configurator. This window is usually displayed automatically in a panel on the side of the user interface.
2. The various files open in your project will be listed in the hierarchy. These may include .IFC, .NWD, .NWC files.
3. To view the hierarchy of a specific file, click on the file name in the hierarchy list.
4. The hierarchy will then expand to display the elements and components of the selected file. You can see the structure and organization of objects in the model.
5. By clicking on individual elements in the hierarchy, you can select or inspect them in the corresponding 3D view.

The "Hierarchy" window lets you easily navigate through files and visualize the structure of your project. It is useful for understanding the relationship between objects and for performing specific operations on individual elements.



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The screenshot shows the software interface with the 'Hierarchy' panel open. The 'Files' tab is selected, and the 'Collapse All' button is highlighted in yellow. The hierarchy is expanded to show 'BuildingStorey - Second Floor' under 'Clinic_A', which is also highlighted in yellow. Below this, a list of 20 'Covering - Compound Ceiling' items is visible, each with a grid number and an eye icon.

File Edit Configuration Windows Settings | Center View Preview all

Hierarchy

Files Storeys

Show all files Hide all files Collapse All

- ▶ Clinic_A
- ▶ Clinic_MEP
- ▶ Clinic_S

▼ Clinic_A

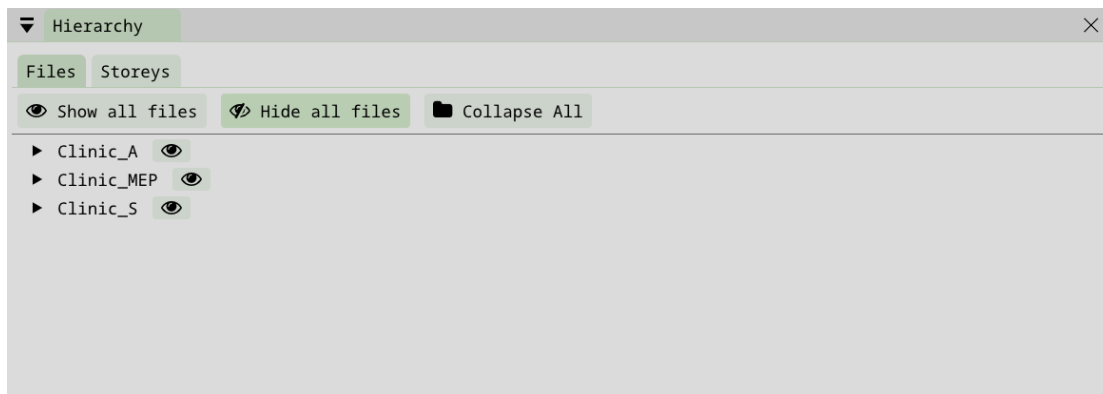
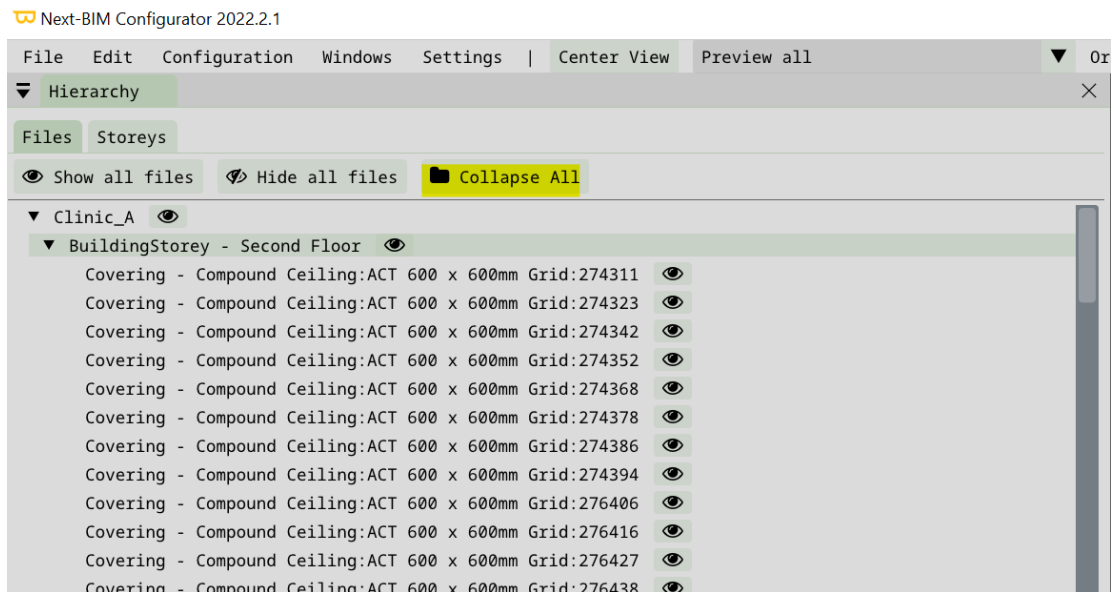
- ▶ BuildingStorey - Second Floor
- ▶ BuildingStorey - First Floor
- ▶ BuildingStorey - Roof - Main
- ▶ BuildingStorey - TOF Footing
- ▶ Clinic_MEP
- ▶ Clinic_S

▼ BuildingStorey - Second Floor

- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274311
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274323
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274342
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274352
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274368
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274378
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274386
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:274394
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276406
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276416
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276427
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276438
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276447
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276457
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276471
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276479
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276487
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276499
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276513
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276544
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276582
- Covering - Compound Ceiling:ACT 600 x 600mm Grid:276611

To close ALL drop-down lists, click on "Collapse All".

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A. Hide / Show a file

To show or hide a file, floor or object in NEXT-BIM Configurator, follow these instructions:

1. In the "Hierarchy" window, locate the file, floor or object you wish to show or hide.
2. To the right of the file, floor or object name, you'll see an eye icon.
3. To hide a file, click on the eye icon corresponding to that file. This will make the file invisible in the 3D view, but it will remain present in the hierarchy and therefore in the .NBIM file (HoloLens)

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4. To display the hidden file again, click on the eye icon again. The file will reappear in the 3D view.

It is possible to hide an object directly from the 3D view by following these steps:

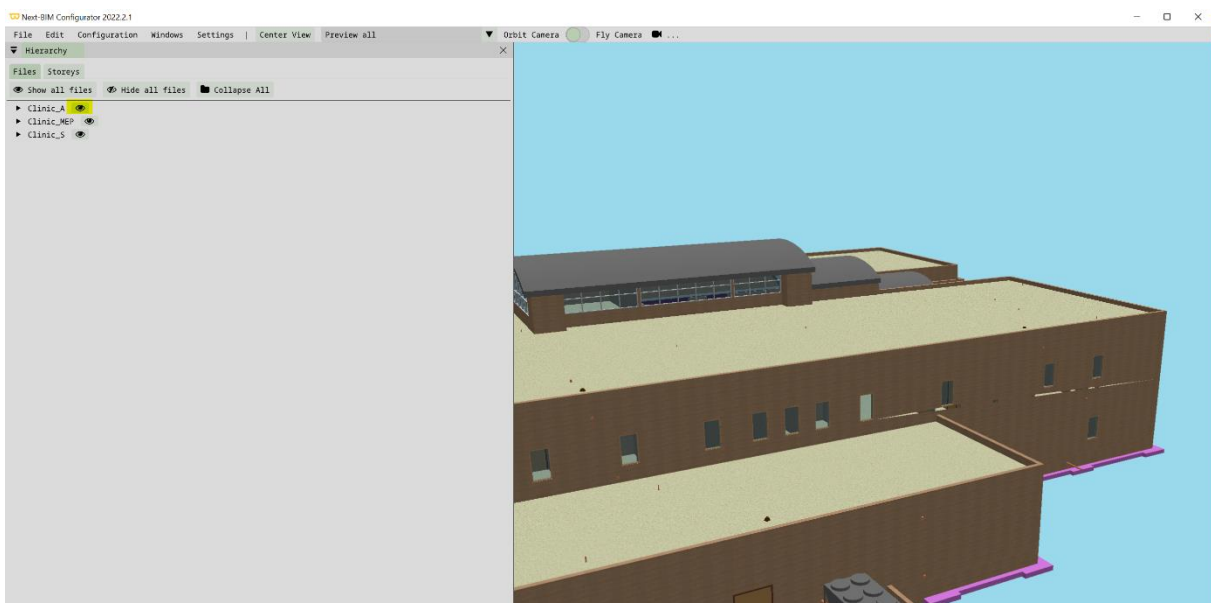
1. In 3D view, right-click on the object you wish to hide.
2. In the context menu that appears, find and click on the "Hide Object" button.
3. The selected object will now be hidden and will no longer be visible in the 3D view.

To find hidden objects and make them visible again, follow these additional steps:

1. In the application's top menu bar, click on "Windows" (Windows).
2. Select "Hidden Objects" from the drop-down menu.
3. A new window will open, displaying a list of hidden objects in your project.
4. You can click on hidden objects in this window to make them visible again in the 3D view.


This allows you to easily manage hidden objects and find them again when you need them.

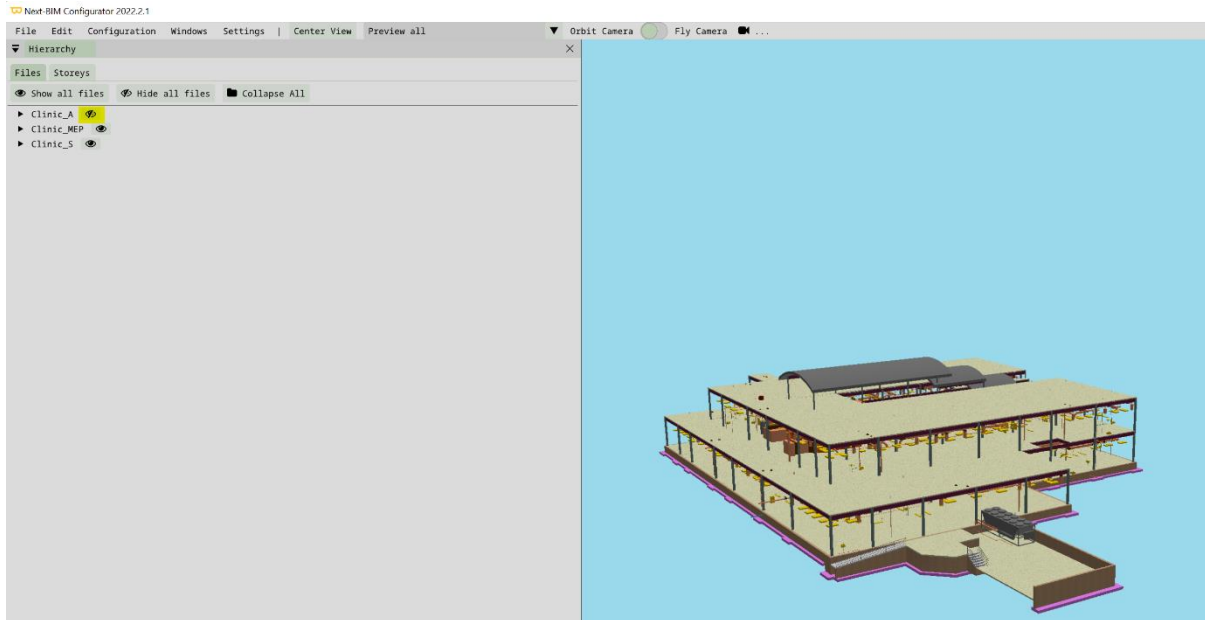
ATTENTION: There's a difference between "Hide objects" and "Remove objects", [see here](#)




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The eye icon is crossed out when the file is hidden. 



To redisplay the file/storey/object, click on the crossed-out eye icon 

B. Hide / Show all files

This feature is useful if you have a large number of files and wish to view just one or two of them. Hide all files, then click on the file(s) you wish to view.

To hide all files in NEXT-BIM Configurator, follow these steps:

1. In the "Hierarchy" window, find the option entitled "Hide All files".
2. This option can usually be found at the top or bottom of the list of files in the hierarchy.
3. Click on the "Hide All files" option to hide all files in the hierarchy.
4. Once you have hidden all files, you will no longer see their representation in the 3D view.

To display the hidden files again, you can proceed in one of two ways:

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Option 1:

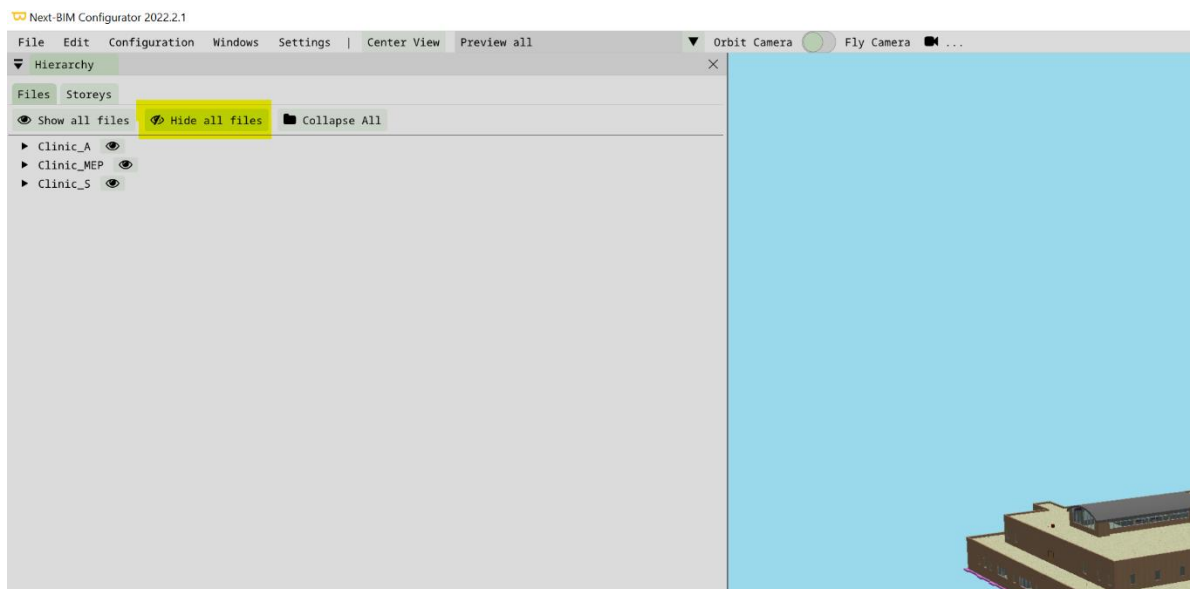
1. In the "Hierarchy" window, click again on the "Show All files" option.

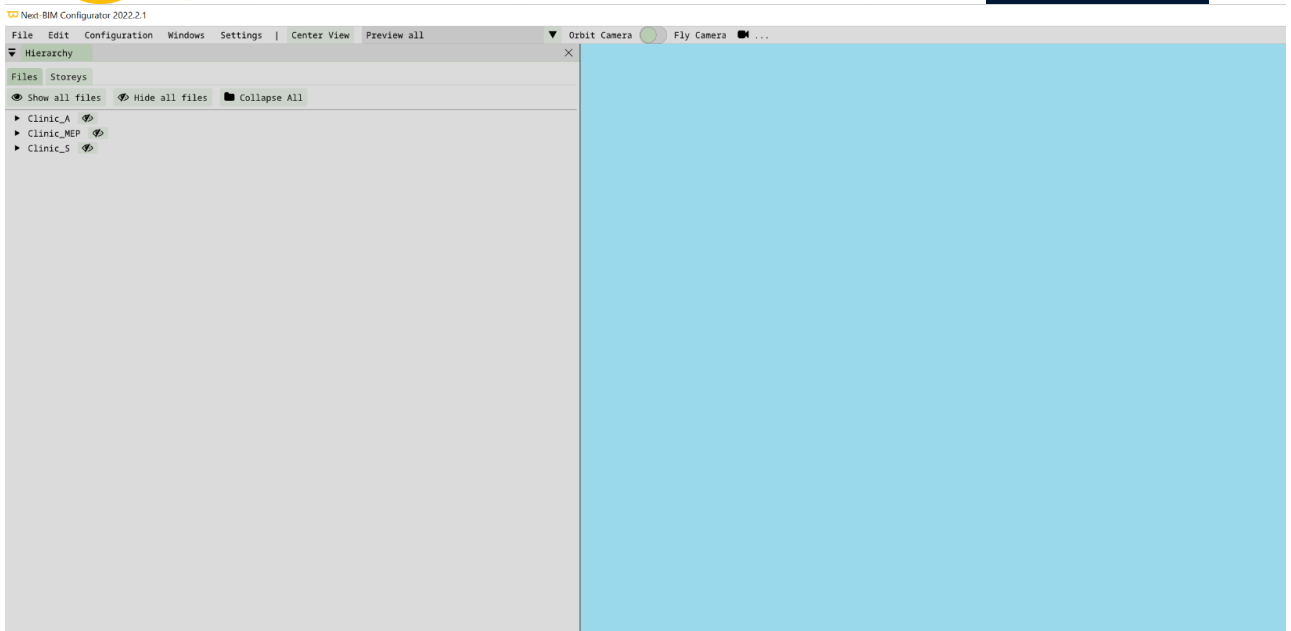
Option 2:

1. In the "Hierarchy" window, you can also click on each file individually to display them one by one.
2. Click on the eye icon next to each file to make them visible in the 3D view.

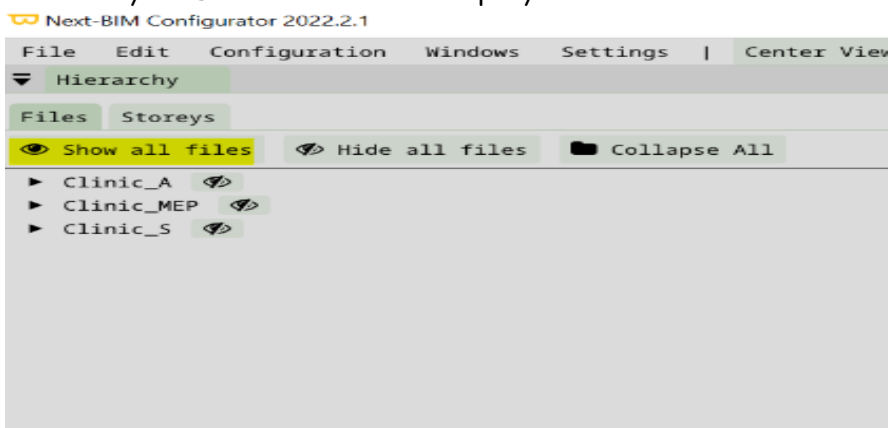
This option lets you temporarily hide all files and redisplay them as required, allowing you to concentrate on one or more specific files.

Hierarchy > "Hide All files" (Hide all files)

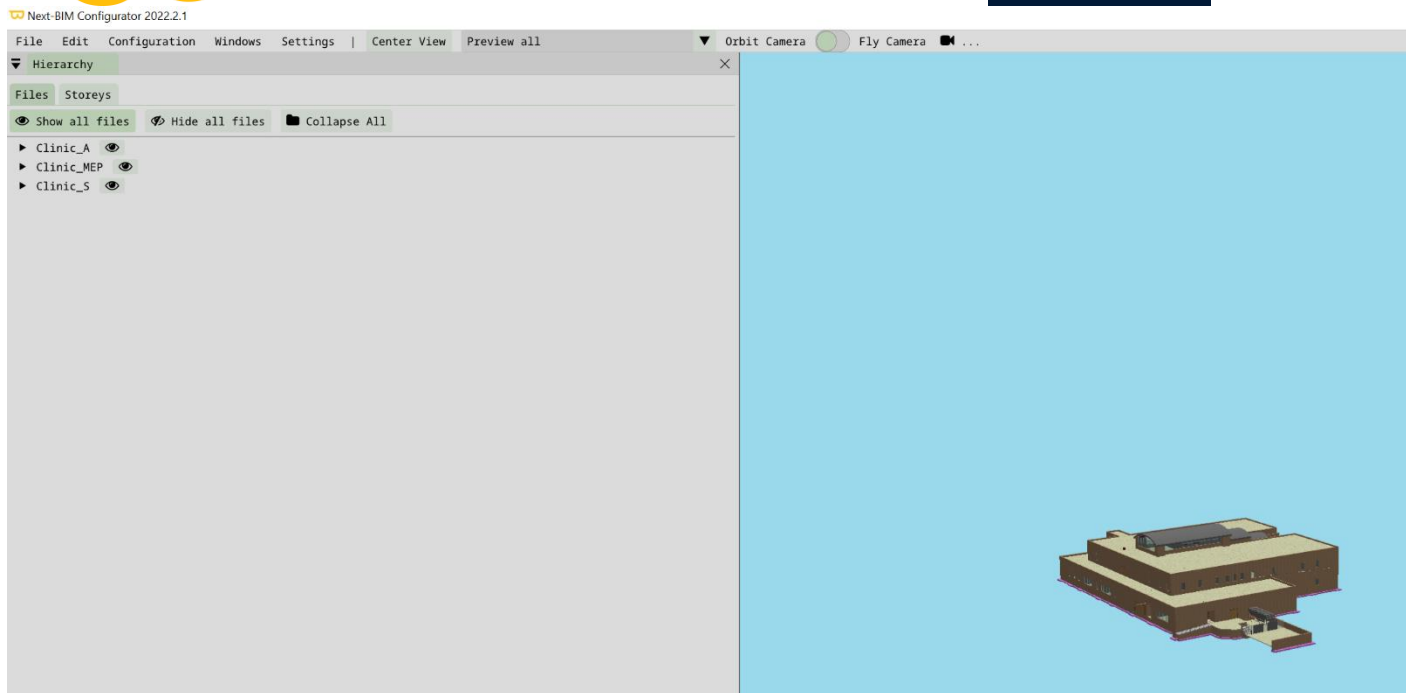




Hierarchy > “Show all files” - Display all files



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C. Hide / Show an object

To hide an object directly from the 3D view, follow the steps below:

1. In 3D view, right-click on the object you wish to hide.
2. In the context menu that appears, find and click on the "Hide Object" button.
3. The selected object will now be hidden and will no longer be visible in the 3D view.

To find hidden objects and make them visible again, follow these additional steps:

- Option 1

1. In the "Hierarchy" window, locate the hidden object.
2. Next to the object, you'll see a crossed-out eye icon. Click on this icon to make it visible again in the 3D view.

- Option 2

1. In the application's top menu bar, click on "Windows".
2. Select "Hidden Objects" from the drop-down menu.

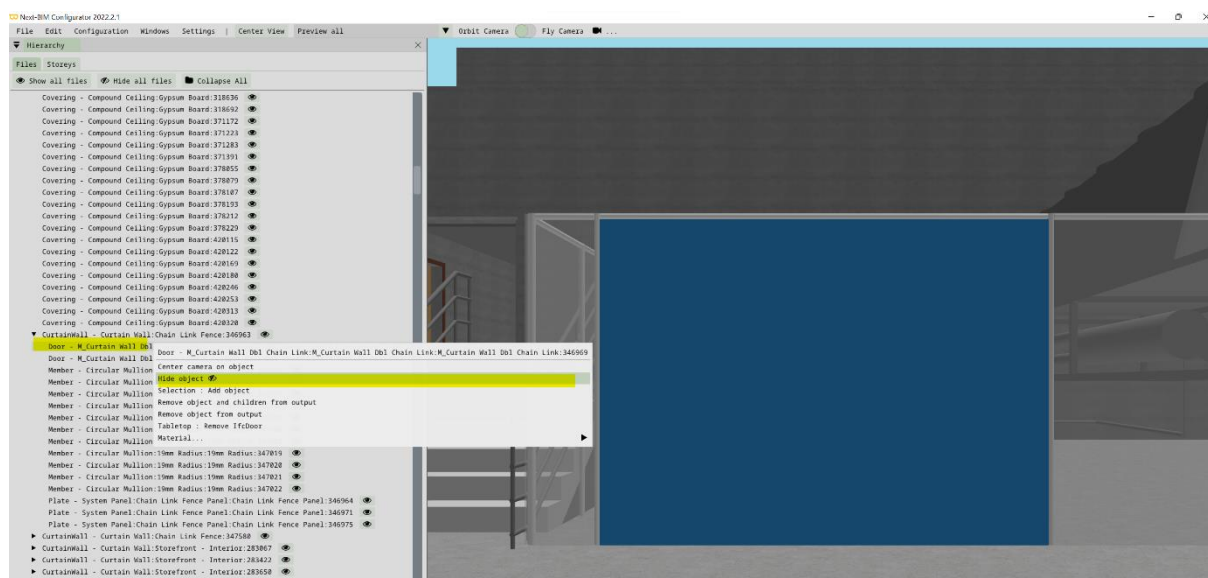
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3. A new window will open, displaying a list of hidden objects in your project.
4. You can click on the hidden objects in this window to make them visible again in the 3D view.

To view objects in the file, click on the file arrow in the hierarchy and click on the floor in which the object is located.

Right-click on the object in the hierarchy, then click on to hide it. Hide object 



The object is hidden

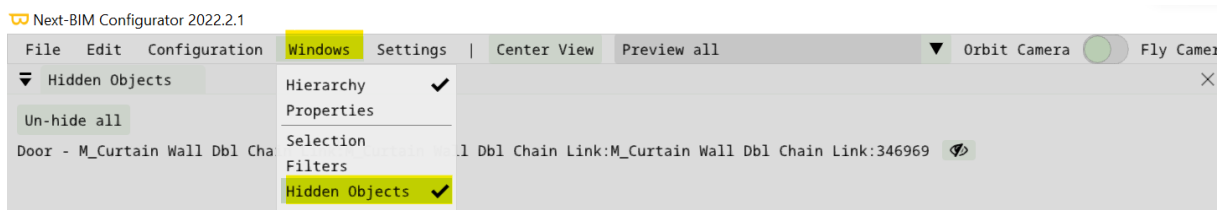
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



To redisplay the object, click on the eye icon at the end of the object line. 

OR

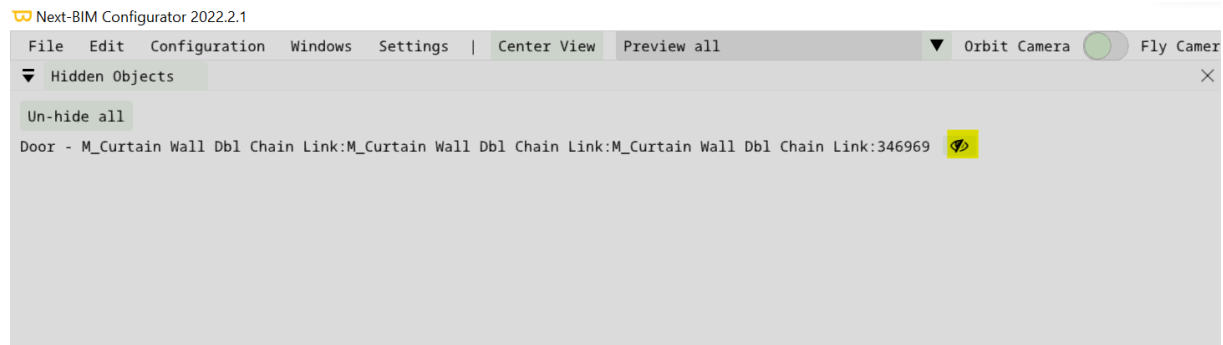
Windows>Hidden Object>



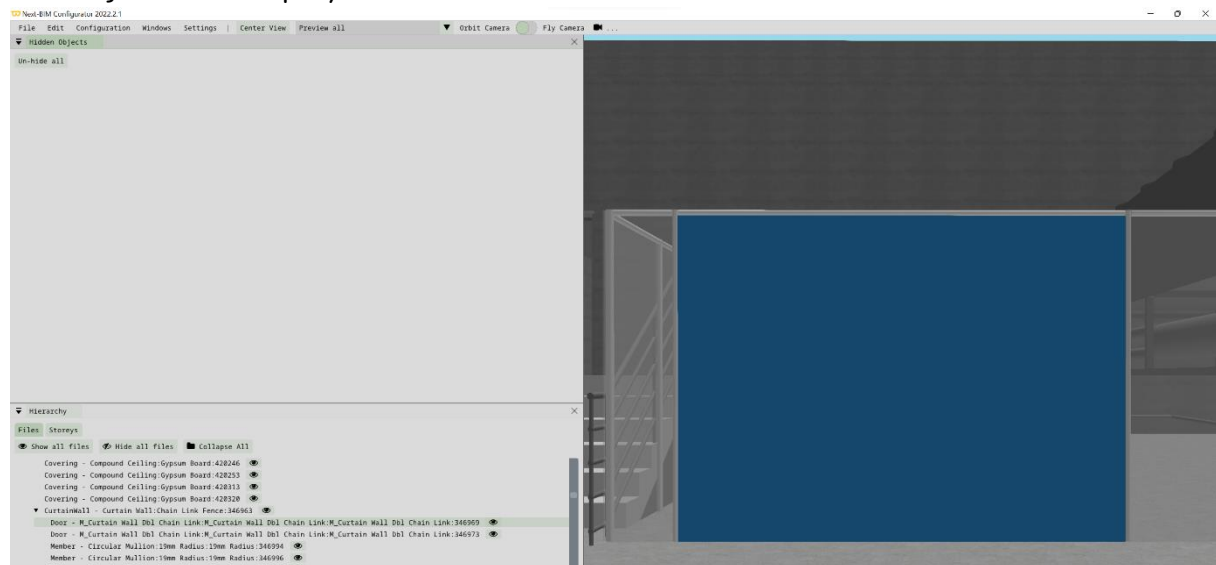
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Click on the eye icon of the object 



The object is re-displayed.



D. Hierarchy context menu

1. Centering the camera on an object

Center the camera on a selected object in the hierarchy by following these steps:

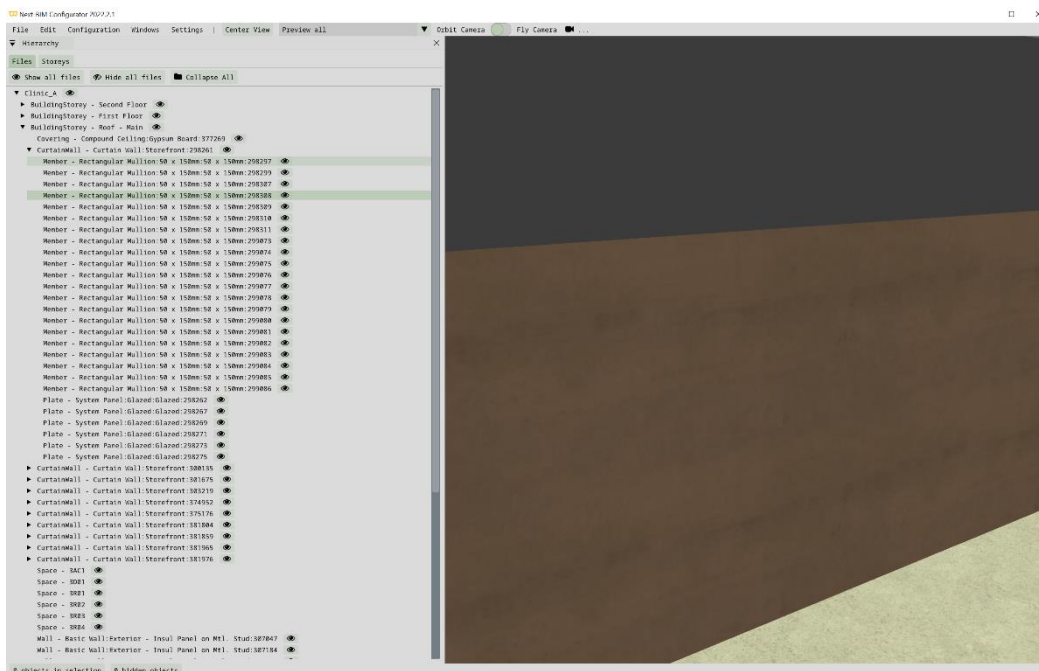
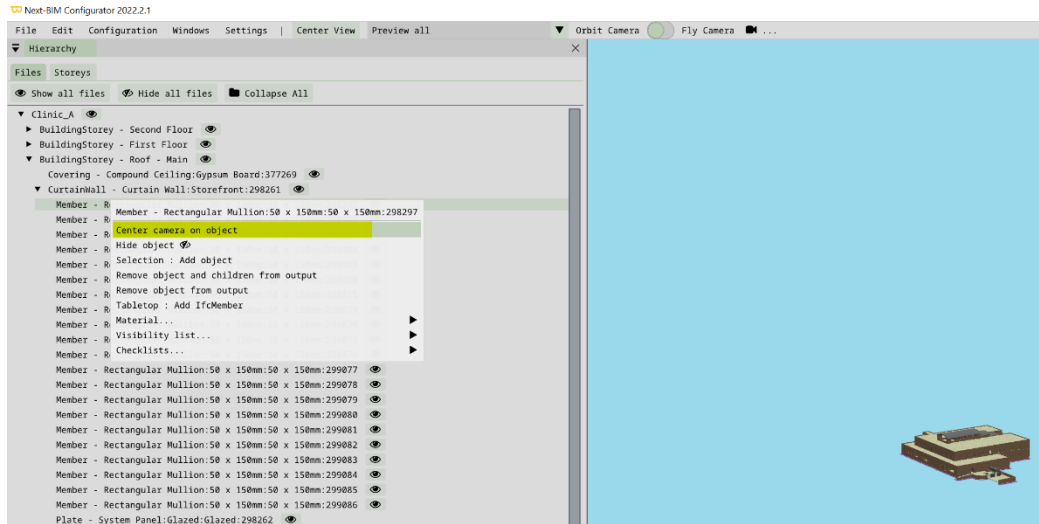
1. In the "Hierarchy" window, locate the object you wish to center the camera on.
2. Right-click on the object in the hierarchy.
3. In the context menu that appears, find and click on the "Center camera on object" option.
4. The camera will automatically move to center on the selected object.
5. You can then view the object centrally in the 3D view, making it easier to inspect and manipulate.

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This feature is useful for focusing on a specific object in the 3D view, automatically adjusting the camera position to highlight it.

To center the camera on the selected object: Right-click on the object in the hierarchy > "Center camera on object".



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2. Removing an object from the .nbim file using the hierarchy

Removing a specific object from your (.nbim) file by following these steps:

1. In the "Hierarchy" window, locate the object you want to delete.
2. Right-click on the object in the hierarchy.
3. From the contextual menu that appears, find and click on the option "Remove object from output."
4. The selected object will now be removed from the (.nbim) file and will no longer be included in the final output.

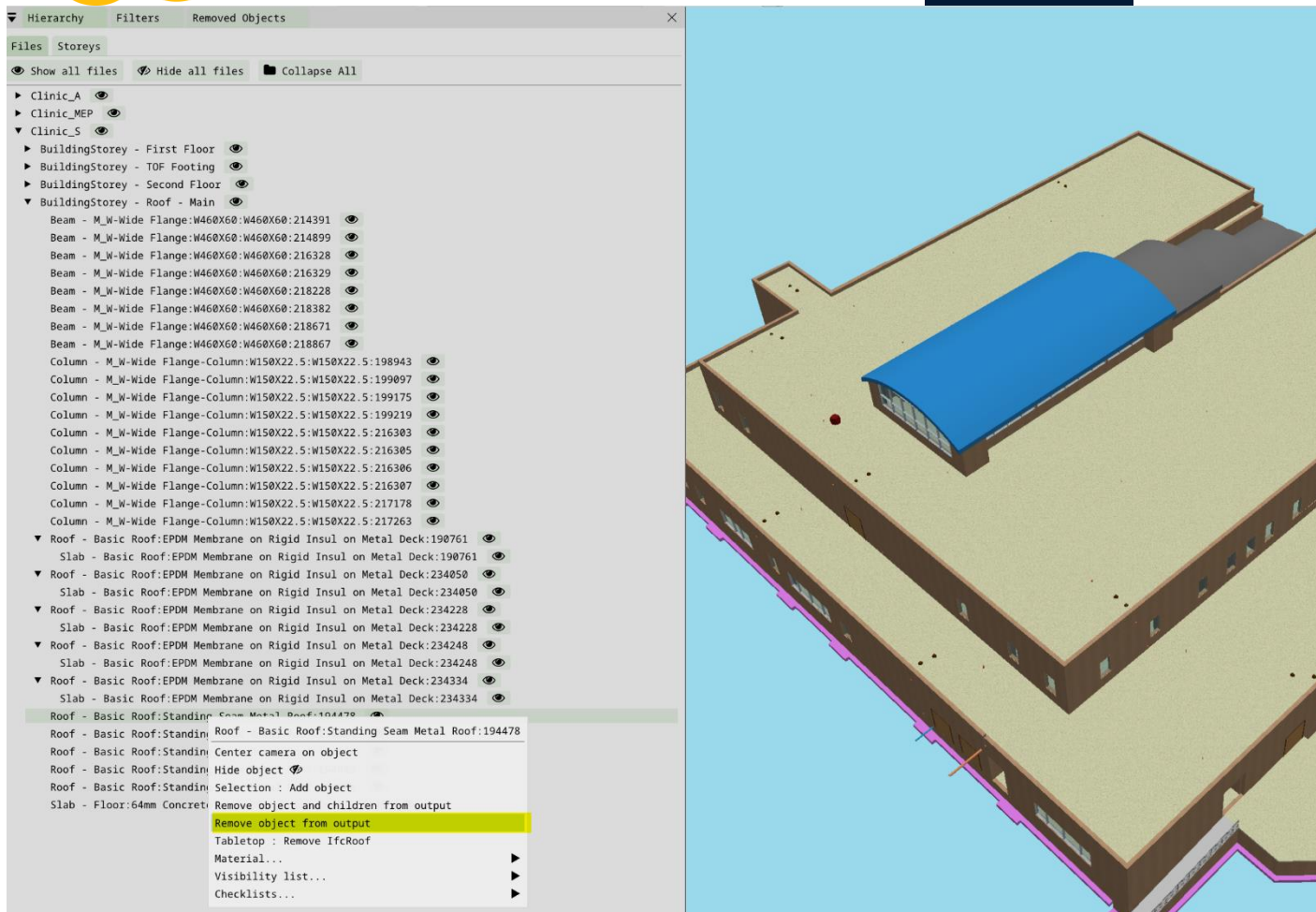
This allows you to remove specific objects from the file, customizing the content of your project according to your needs. Please note that once the .NBIM file is generated, the object will not be available for viewing in NEXT-BIM Explorer.

To reimport a previously deleted object in NEXT-BIM Configurator, you can follow these steps:

1. In the top menu bar of the application, click on "Configuration."
2. From the dropdown menu that appears, select "Removed Objects."
3. A window will open, displaying a list of previously deleted objects.
4. Browse the list and locate the object you want to reimport.
5. Then, in the "Removed Objects" window, find and click on the "Re add" button to restore the object in your project.
6. The object will be reintegrated into the hierarchy and reappear in the 3D view.

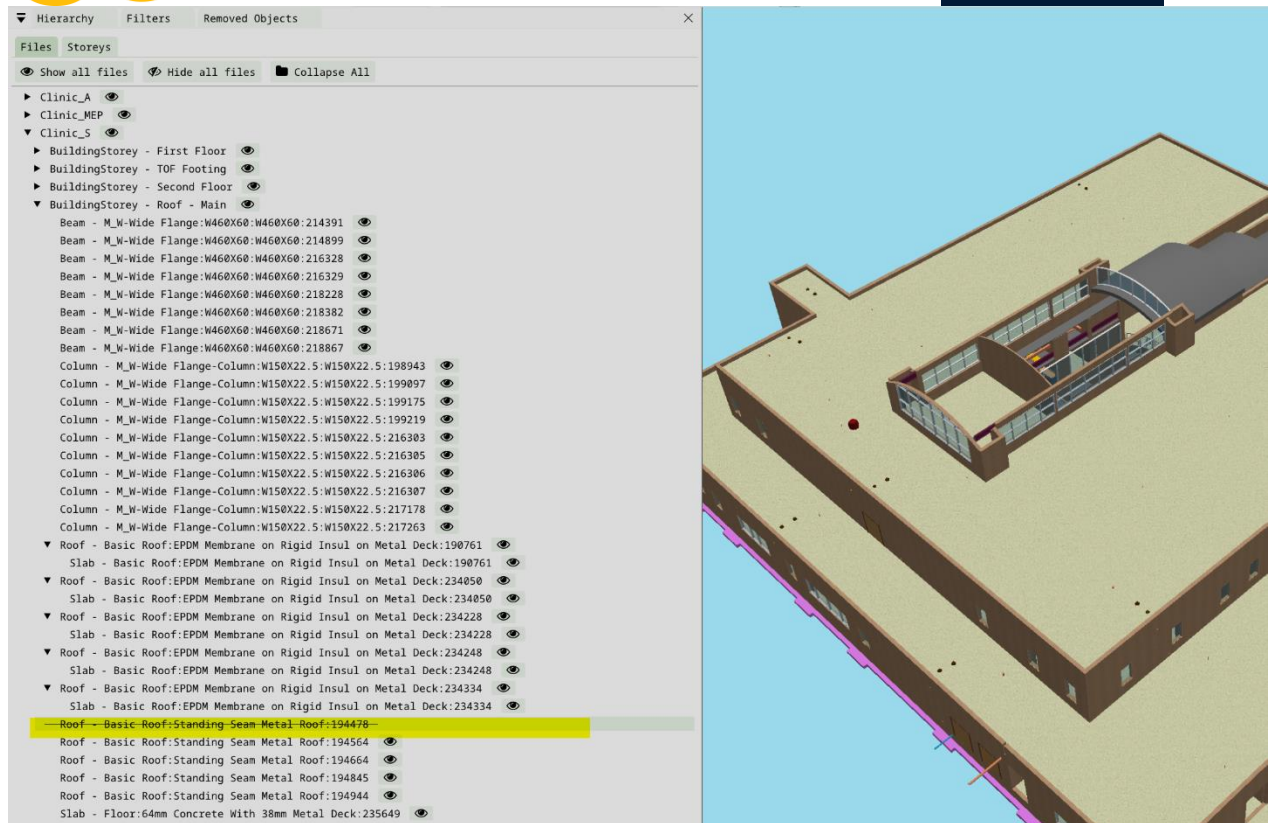
This allows you to restore previously deleted objects and include them again in your project, providing greater flexibility in managing your content.

Example of deletion:



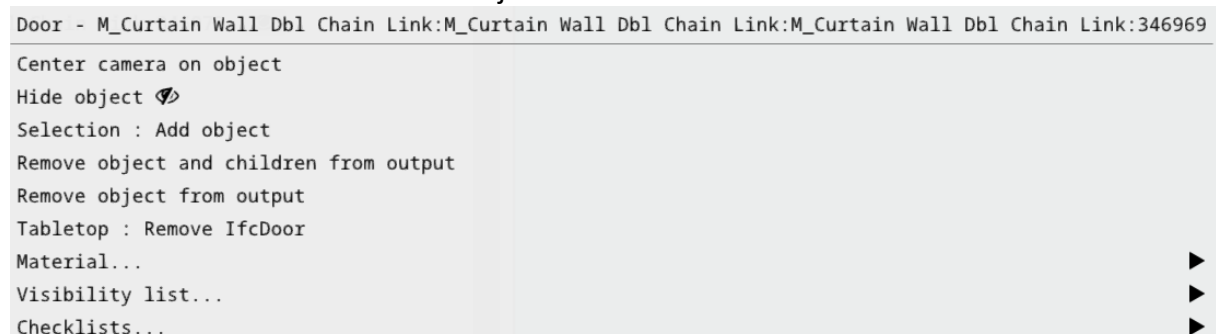
Once the object is crossed out in the hierarchy, it will not be loaded into the format .nbim.

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To see all the items that will not be loaded and also modify this list, [see here](#).

Other functions are available in an object's context menu:



- Add in selection = Add this object to your selection
- Table top : Remove " X " Type from output = Remove the Type (ifcclass) from reduced model mode
- Material : Add new material to object = Only color this object
- Material : Add new material to ifc(type) = Color all objects of a Type.
- Checklist : Add object to checklist = Available if a checklist has already been created. Adds the object to your checklist.

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- Visibility list = Available if a visibility list has already been created. Adds the object to an existing visibility list.

VII. Hidden objects

To find all the objects you have hidden in NEXT-BIM Configurator, follow these steps:


1. In the application's top menu bar, click on "Windows".
2. In the drop-down menu that appears, select "Hidden Objects".
3. A "Hidden Objects" window will open, displaying a list of all the objects you have hidden.
4. In this window, you can browse the list of hidden objects.
5. To redisplay a specific object, click on the "Un-hide" icon corresponding to that object in the list.
6. The object will then be made visible again in the 3D view.
7. If you wish to redisplay all hidden objects simultaneously, you can click on the "Un-hide all" button.

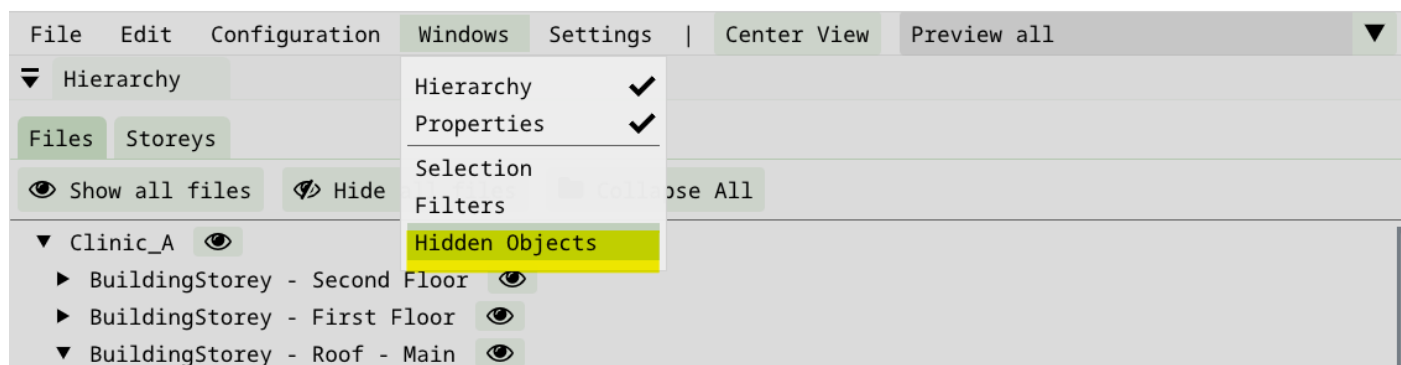
This allows you to easily manage and redisplay hidden objects in your project, giving you greater control over their visibility in the 3D view.

Example:

Find all the objects you've hidden.

Windows menu > Hidden Objects

 Next-BIM Configurator 2022.2.1



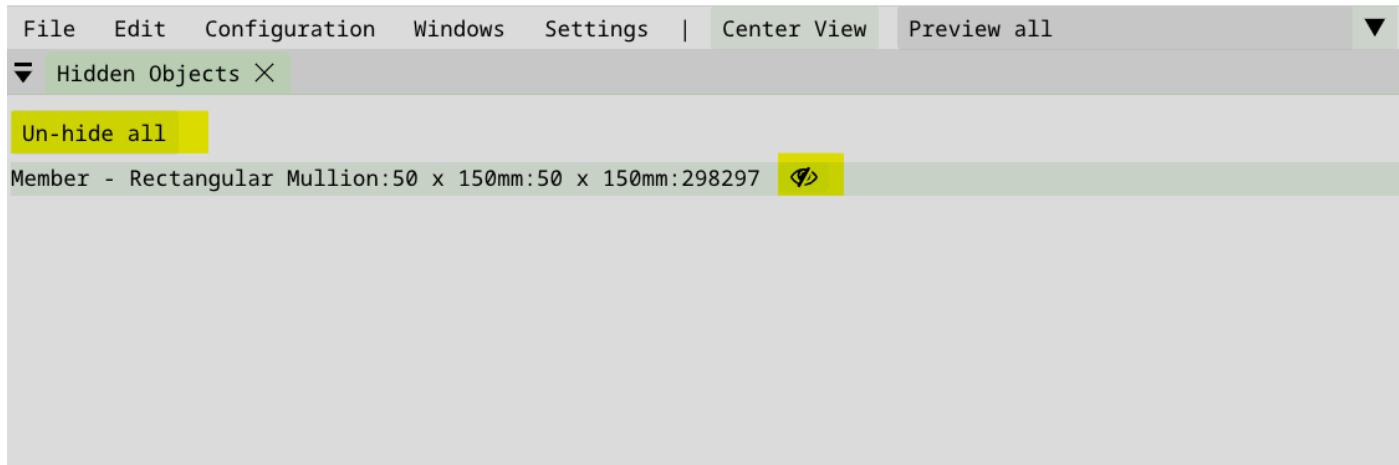
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A list of all the objects you have hidden will appear. To redisplay an object, click on the "👁" icon.

To redisplay all objects, click on Un-Hide all. »

Next-BIM Configurator 2022.2.1



VIII. Filters

Filters in NEXT-BIM Configurator enable you to sort and apply specific configurations to your objects, such as checklists, materials, tabletop configurations and so on. They also help you to add targets for the target-based rapid realignment tool, or to make the continuous registration system more reliable.

Here are a few tips for creating effective filters:

1. Think generically: When creating filters, take the time to design them generically, so that they can be reused in future projects. The more precise and generic your filters, the faster and easier it will be to apply configurations.
2. Use properties: Sorting by properties is useful for achieving high accuracy if you use the same properties on all your projects. You can filter objects according to their specific properties.
3. Consider naming conventions: If you have similar naming conventions from one project to another, sorting by name can be an interesting option. You can filter objects by name.
4. Use .ifc type: Although sorting by .ifc type is efficient, it doesn't provide the same level of detail as sorting by property or name. However, it can be used to filter objects according to their .ifc type.

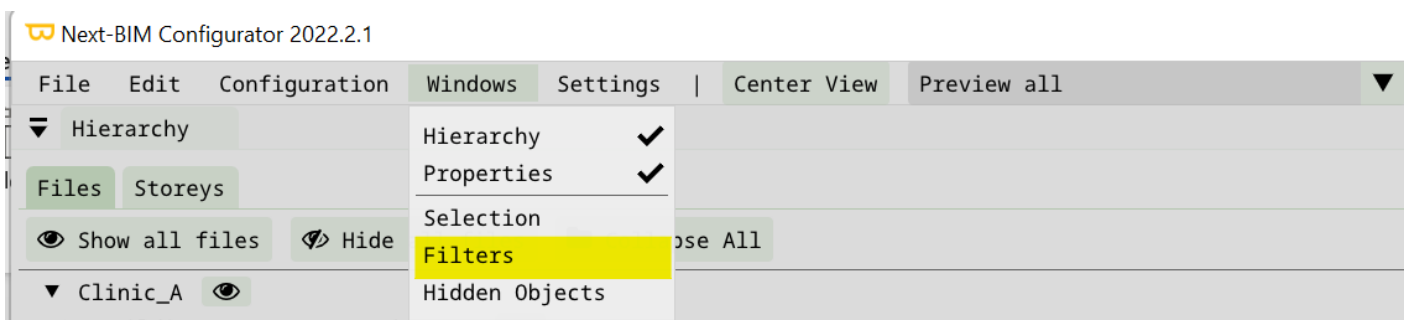
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



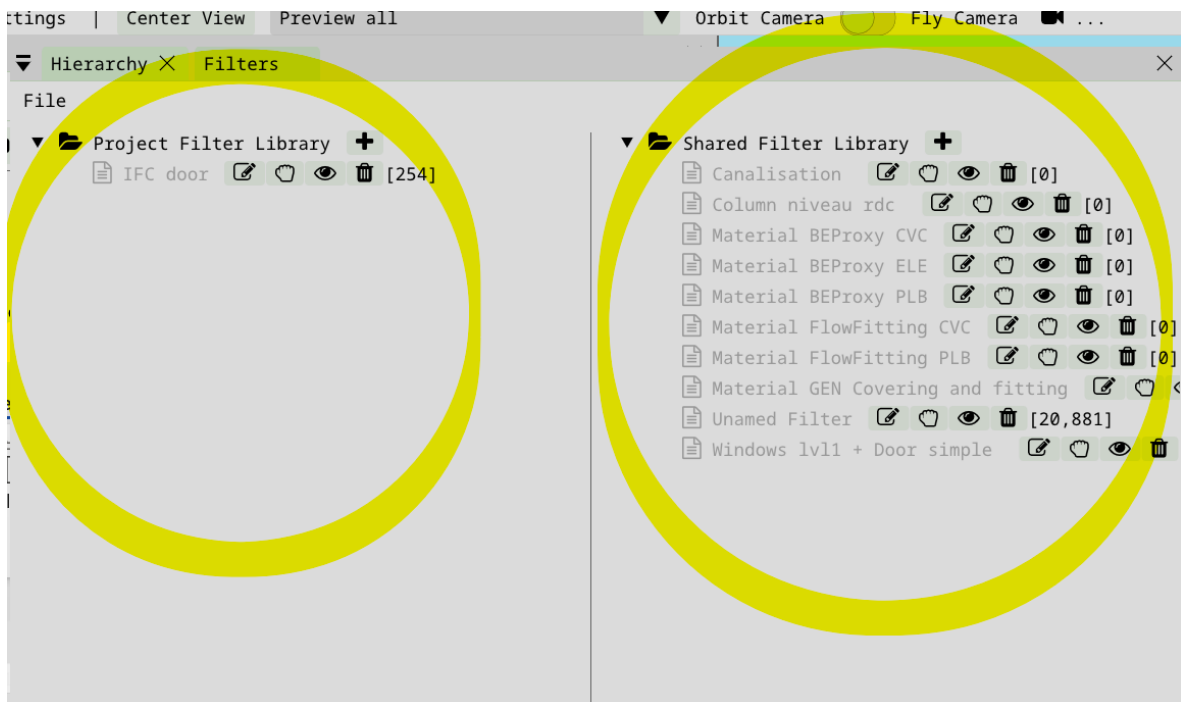
Tip for model cross-sections: You can create filters containing model areas to avoid having to generate multiple projects (nbim_project). This allows you to work on specific sections of your layout without having to create new projects.

It's important to note that using per-file rules in the checklist tool requires you to add a rule for each IFC type, and to select the IFC types present in the file. If the .IFC types are not selected, the objects in the file will be considered as a group of objects, resulting in an incorrect number of objects in your checklist.

By using filters effectively, you can apply specific configurations to your objects and improve your workflow in NEXT-BIM Configurator.



Menu Windows > Filters





NEXT-BIM Configurator offers two filter libraries: the Project filter library on the left and the Shared filter library on the right.



When you save a filter in the Project filter library, it will be specific to that project only. This means that the filter will not be available when you open a new project. This is useful if you have filters specific to a particular project and you don't want to apply them to other projects.

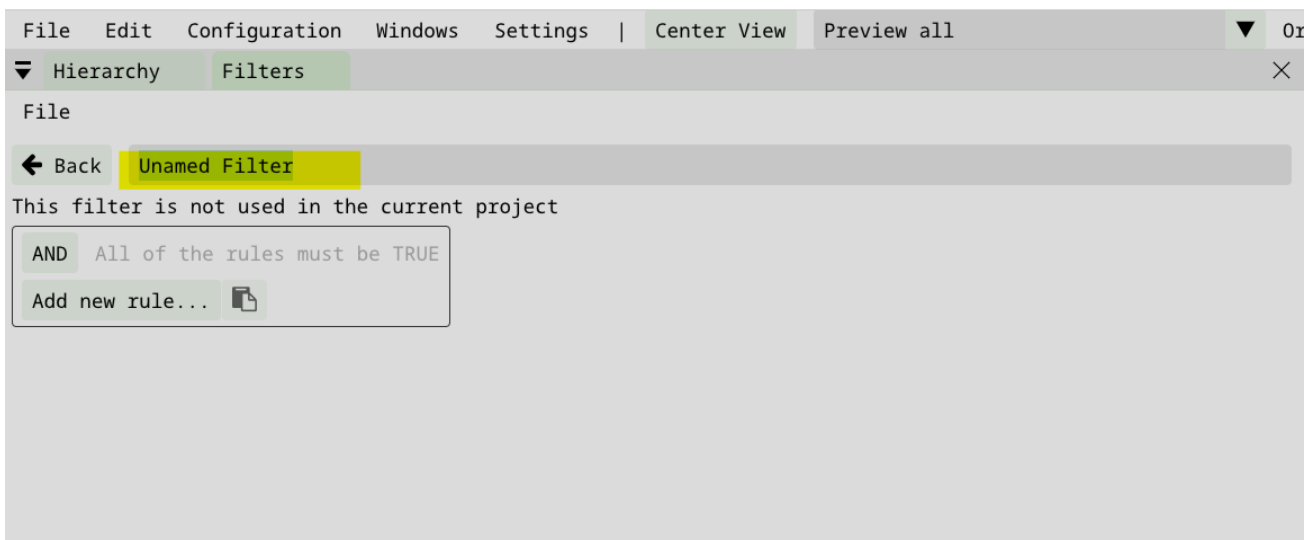
On the other hand, when you save a filter in the Shared filter library, it will be accessible in all your projects. This allows you to save generic, reusable filters that you can apply to different projects. When you open a new project, these filters will be available and applicable, making it easier to manage and reuse configurations.

So it's important to choose the right library for your needs. If you want to save a filter for a specific project, use the project library. If you want to save a filter for general use in all your projects, use the shared library.

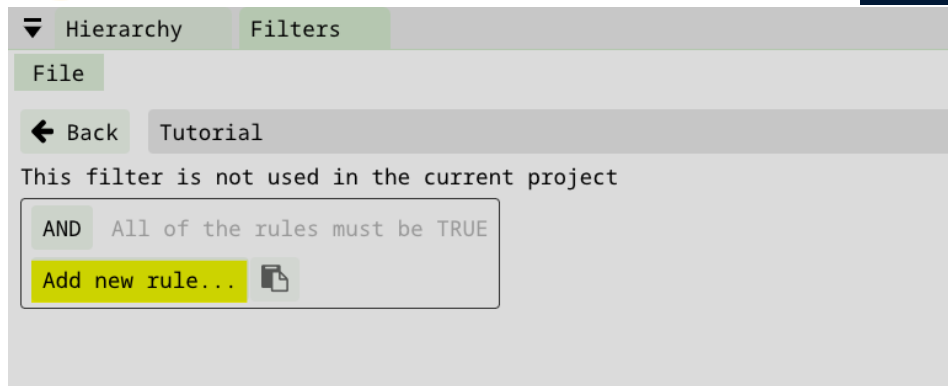
This enables you to manage your filters efficiently and apply them according to the specific requirements of each project, or share them between several projects to optimize your workflow.

Use the "+" button to create a filter in the desired library.

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When creating a filter, rename it (e.g. Door level 1).



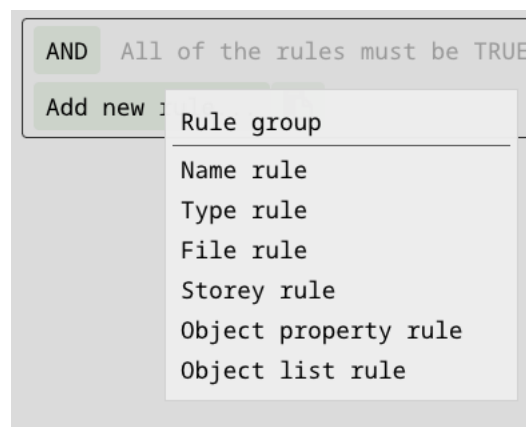
You can create multiple rules and rule sets in NEXT-BIM Configurator to define more complex filters. Rule sets can be nested within each other, offering great flexibility in the definition of filter criteria.

To add a sorting rule, you can use the "Add new rule" button in the filter configuration window. This allows you to define filter criteria based on object properties.

When adding a rule, you can specify logical conditions, such as AND and OR, to combine multiple criteria. You can also use nesting to create more complex and precise filters.

We recommend that you create a sample template containing elements representing the categories you wish to use in your filter. By experimenting with these examples, you can create filters using the appropriate rules and apply them to views until you achieve the desired result.

Take the time to think about the filter criteria and use the logical conditions appropriately to achieve the desired results. You can create as many rules and rulesets as you need to meet your specific filtering requirements





A. Rule-based filtering

Name rule: This rule lets you sort objects by name. You can specify an exact match or use wildcards.

- Type rule: This rule lets you select one or more specific .ifc classes. You can filter objects according to their type, such as "Wall", "Window", "Door", etc.
- File rule: This rule lets you select objects according to the file to which they belong. You can specify the file name or use wildcards to represent a set of files.
- Storey rule: This rule lets you select objects according to the floor of the building to which they belong.
- Object property rule: This rule lets you sort objects according to their properties. You can specify the property group name, the property name and the desired value to filter objects accordingly.
- Height rule: This rule lets you select objects that are above or below a certain altitude. You can specify a lower and/or higher altitude value to filter objects within a given range.
- Object list rule: adds the created selection to the list.

B. Selection-based filtering

You can also create filters based on a selection of objects. The rule used for this is the Object list rule. Here's how to use this rule:

1. Select the objects you wish to include in your filter using the selection tools available in the 3D view or the "Edit" > "Find" search tool.
2. Once you've made your selection, go to the filters menu and create a new filter by clicking on the "Add new filter" button.
3. In the object list ruler, you'll see an option to add the selection you've created. Click on this option to include the selected objects in your filter.
4. Give your filter a name and define any other parameters you wish to apply to the filter, such as the configurations (Checklists, materials, Tabletop) to be applied.
5. Save your filter.

It is important to note that when creating a filter from a selection, this filter will be specific to the current project and cannot be reapplied to another project. If you wish to use the same filter in different projects, you will need to recreate the filter by making the corresponding selection in each project.

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Make sure you take this limitation into account when creating selection-based filters, and choose the filtering method that best suits your specific needs.

C. Invert the rule

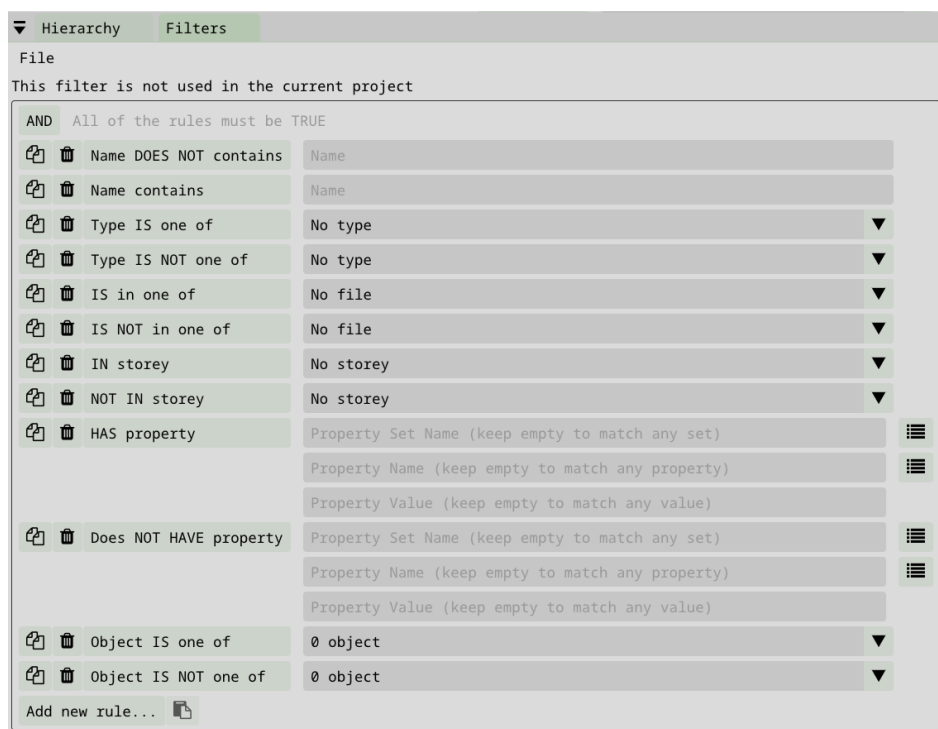
You can invert a rule by clicking on the rule name. This selects the opposite of what is specified in the rule. For example, if you have a "Name contains" rule, you can click on it to invert it to "Name does not contain".

Here's how to reverse a rule:

1. Go to the filter where you have defined the rule you wish to reverse.
2. Locate the rule you wish to reverse, for example the "Name contains" rule.
3. Click on the name of the rule, in this example "Name contains".
4. Clicking on the rule name will invert the rule to "Name does not contain".
5. Be sure to check that the rule inversion corresponds to the filtering condition you wish to apply.
6. Save your changes to the filter.

By inverting a rule, you can select objects that do not match certain specified criteria. This offers greater flexibility in the creation of your filters and allows you to select precisely the objects you wish to include or exclude.

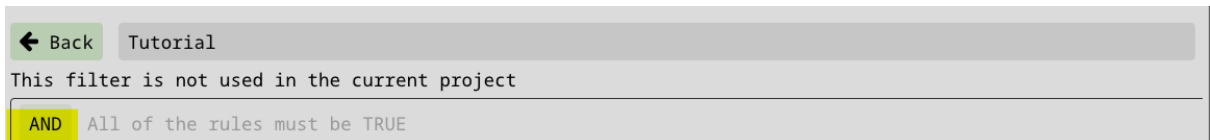
Each rule can be inverted to select the opposite of what is specified:





D. Condition AND only

When a ruleset uses the AND condition, all its rules and nested rulesets must be true.



1. EXAMPLE « AND » condition filter

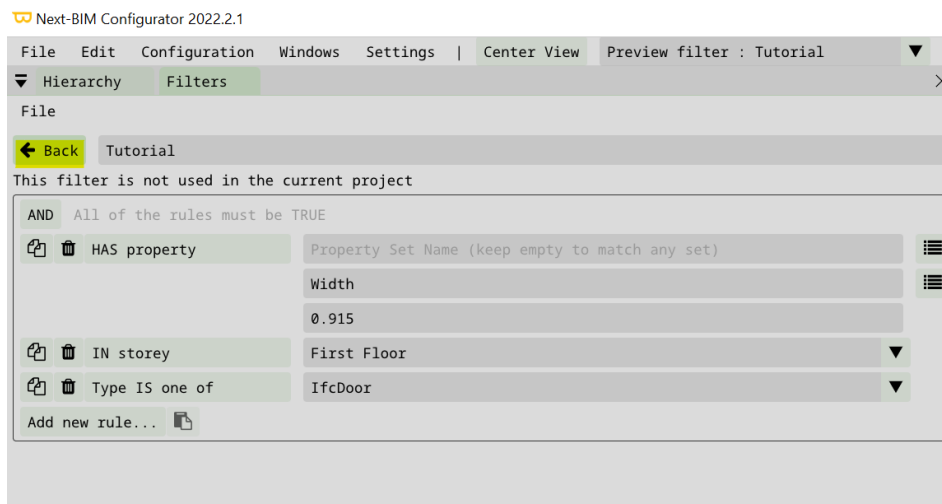
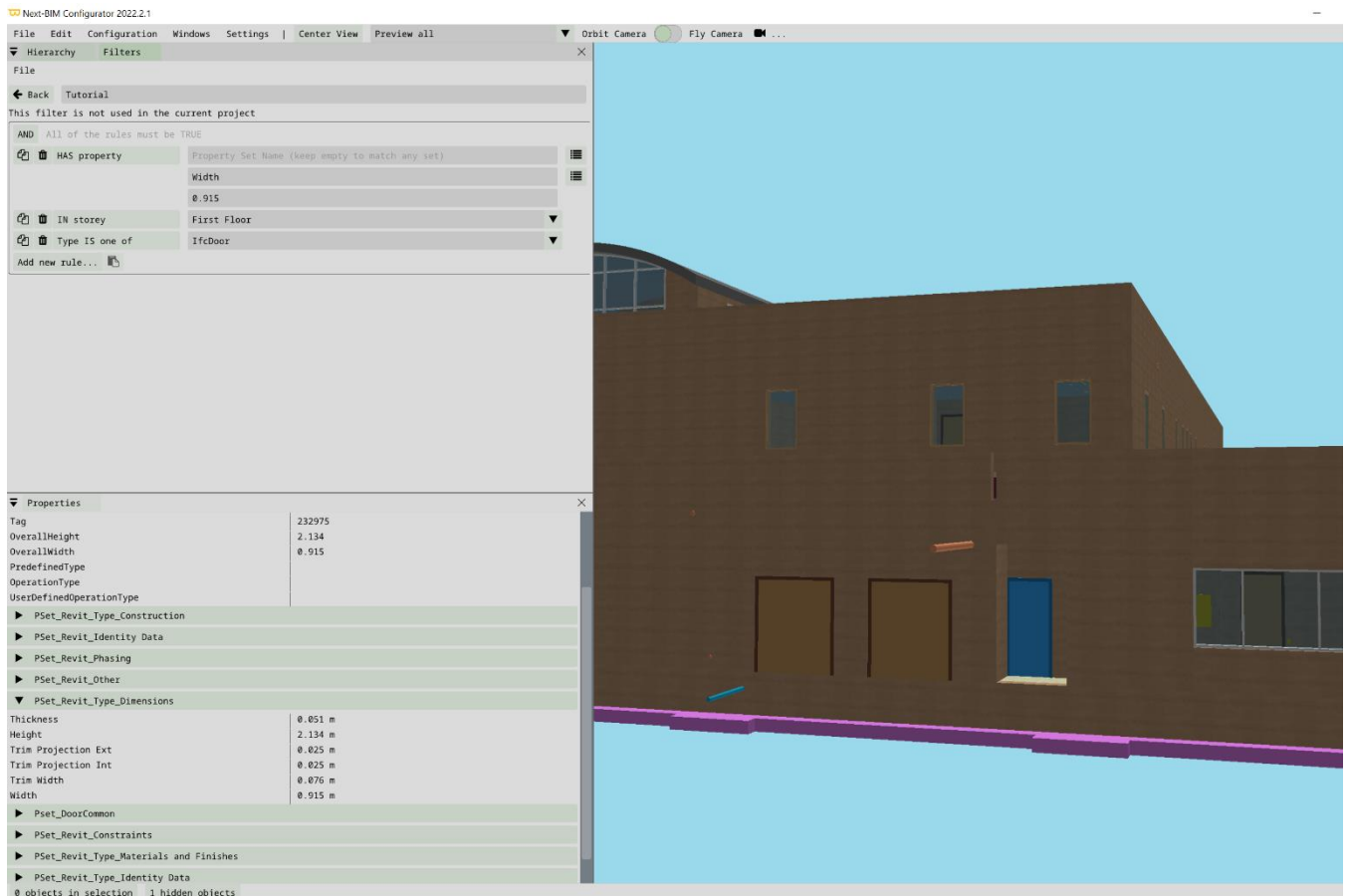
The "AND" condition allows you to combine rules to be more precise in your searches. The use of "AND" means that all the rules applied must be true.

1. To create an "AND" condition filter, follow these steps :
2. Go to the filters menu and create a new filter.
3. Add the necessary rules using the rule types mentioned: "Type rule", "Storey rule" and "Object property rule".
4. Type rule: Select the "ifc door" class to filter objects that are doors.
5. Storey rule: Select the "First floor" level to filter objects located on this floor.
6. Object property rule: Configure the rule to filter objects with a specific property. In this example, you would specify the "width" property with a value of "0.915".
7. Check that all rules are configured with the correct conditions.
8. Once your filter is complete, press "Back" to return to the filter list.
9. To preview the filter, click on the "Preview filter" icon (eye icon).
10. The total number of objects filtered according to your filter conditions will be displayed at the end of the line.

This will allow you to create a precise "AND" condition filter to select all doors on the second floor with a width of 0.915m. You can apply this filter to your views to view only those objects matching these criteria.

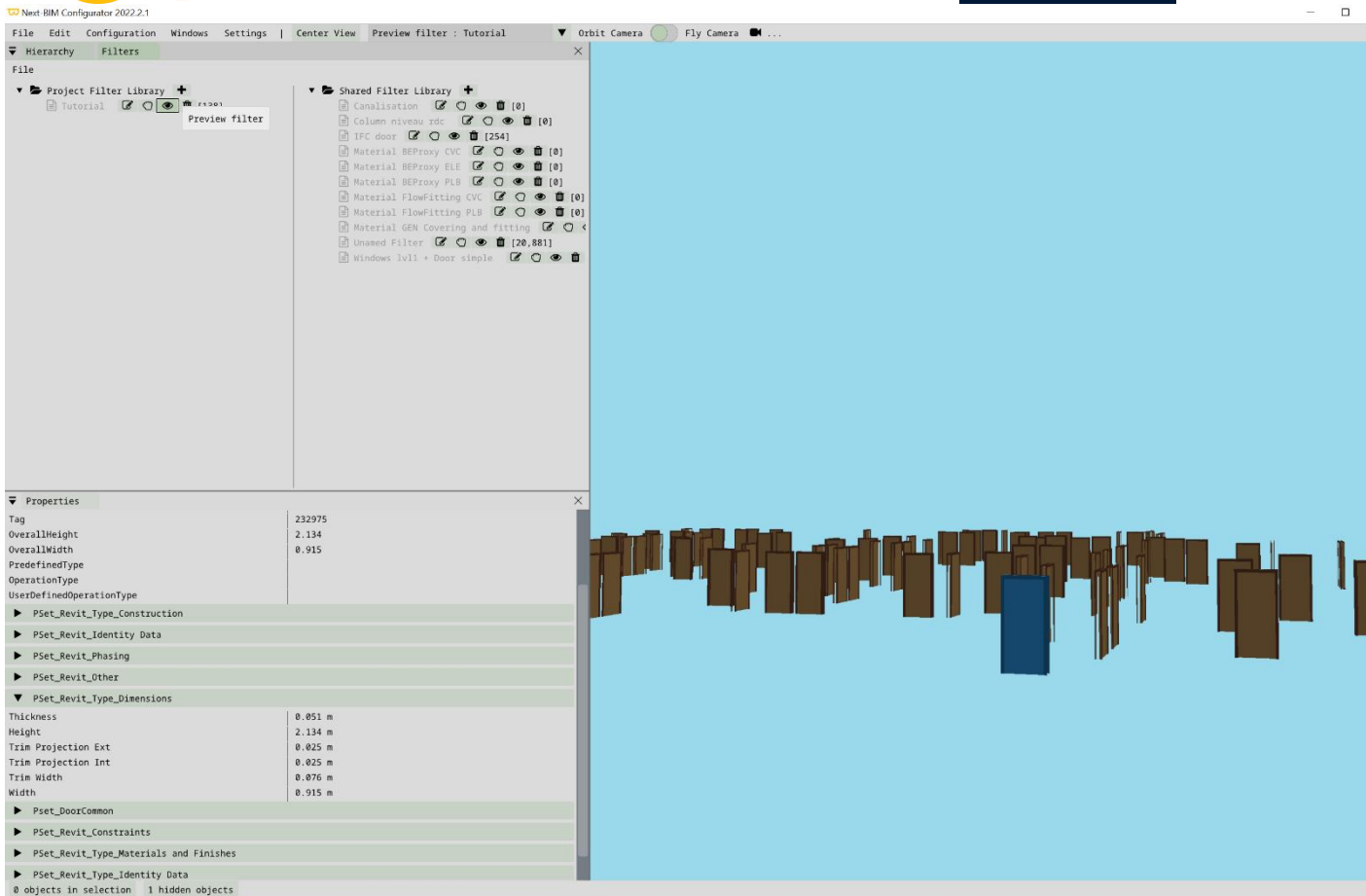



Example:



Press "Back" when your filter is complete

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Preview your filter by clicking on the eye icon  = "Preview filter"



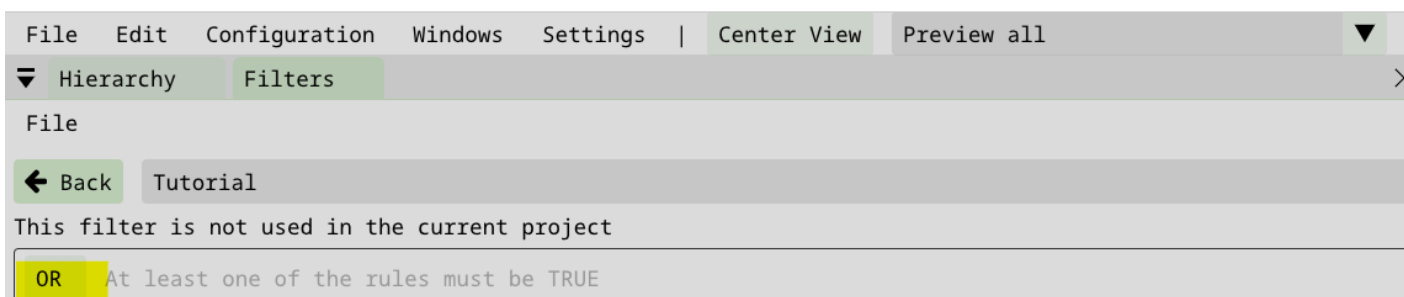
The total number of objects in the filter is displayed at the end of the line

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E. Condition OR only

Next-BIM Configurator 2022.2.1



The OR condition is used when you want one of the rules or nested rulesets to be true for the overall ruleset to be considered true.

If you wish to select multiple values for the same parameter, you can add a separate rule for each desired value. Then, you can nest these individual rules under a ruleset with the OR condition. This means that if at least one of the rules for the individual values is true, the overall ruleset will be considered true.

For example, suppose you want to select all objects with a height of 2 meters or 3 meters. You can add two separate rules, one for the 2-meter height and one for the 3-meter height. Then, you can nest these rules under a set of rules with the OR condition. So, if an object has a height of 2 meters or a height of 3 meters, it will be selected by the filter.

This approach allows you to specify multiple values for the same parameter and create more flexible filter conditions using the OR condition.

A. Rule groups with AND/OR conditions

Using rule groups with AND and OR conditions requires careful planning to achieve the desired results.

In some cases, you'll need to use the AND condition with nested OR conditions. This means that all OR conditions within the rule set must be satisfied for the overall rule set to be considered true.

In other cases, you'll need to use the OR condition with nested AND conditions. This means that at least one of the AND conditions within the ruleset must be satisfied for the global ruleset to be considered true.

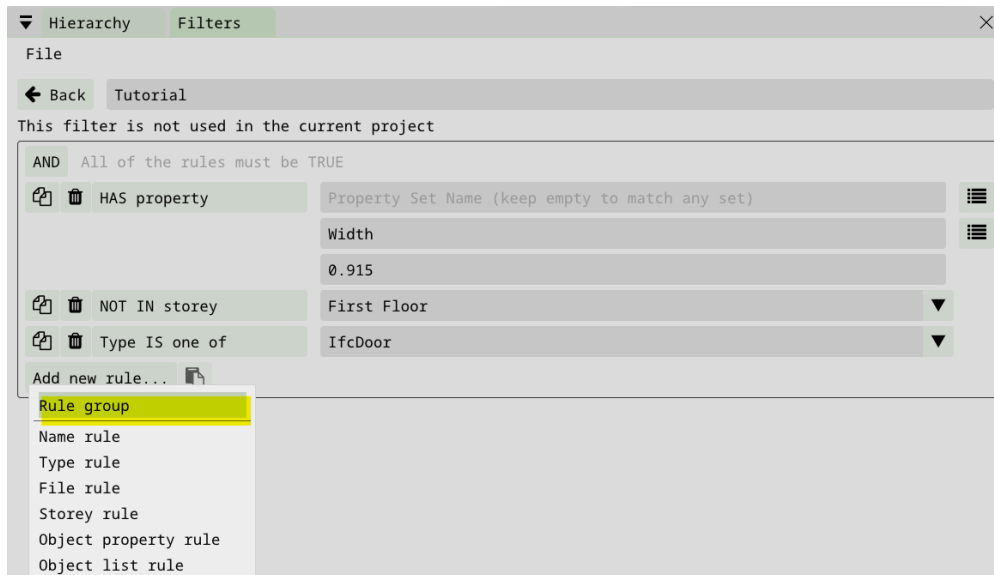
Proper use of AND and OR conditions with nested rulesets allows you to create more complex and precise filters to meet your specific needs. It's important to understand the expected results and plan accordingly to achieve the desired results.

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B. Create a nested filter (contains different objects)

Use the "Rule group" rule to include different types of objects in a filter.



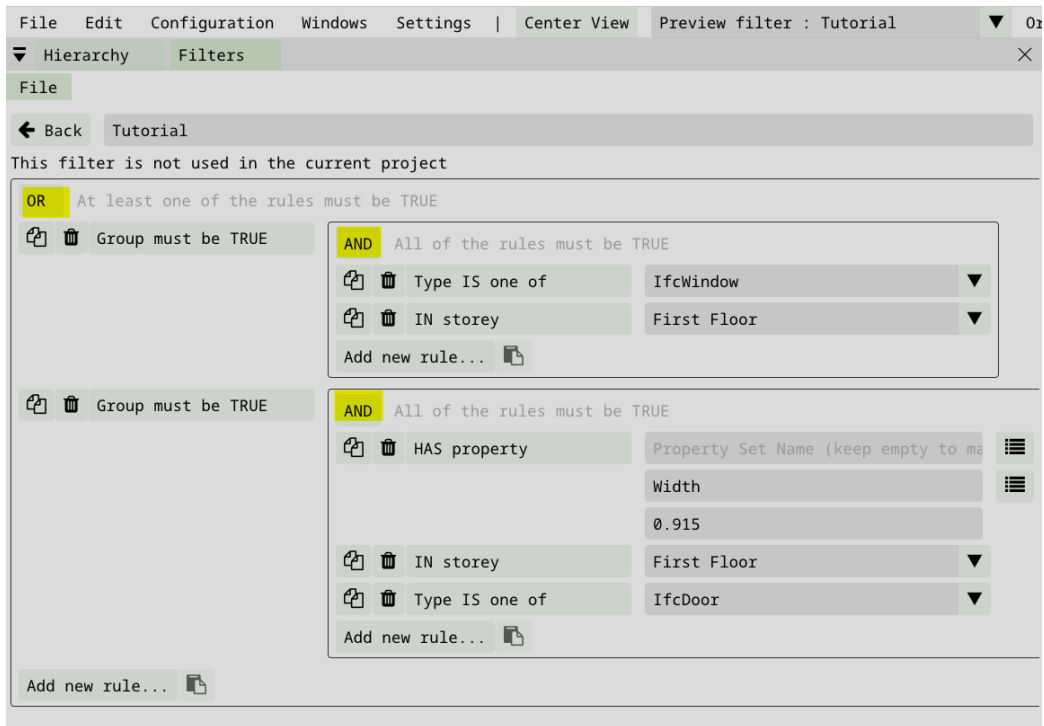
Windows menu > Filters > Add new rule > Rule group

Example:

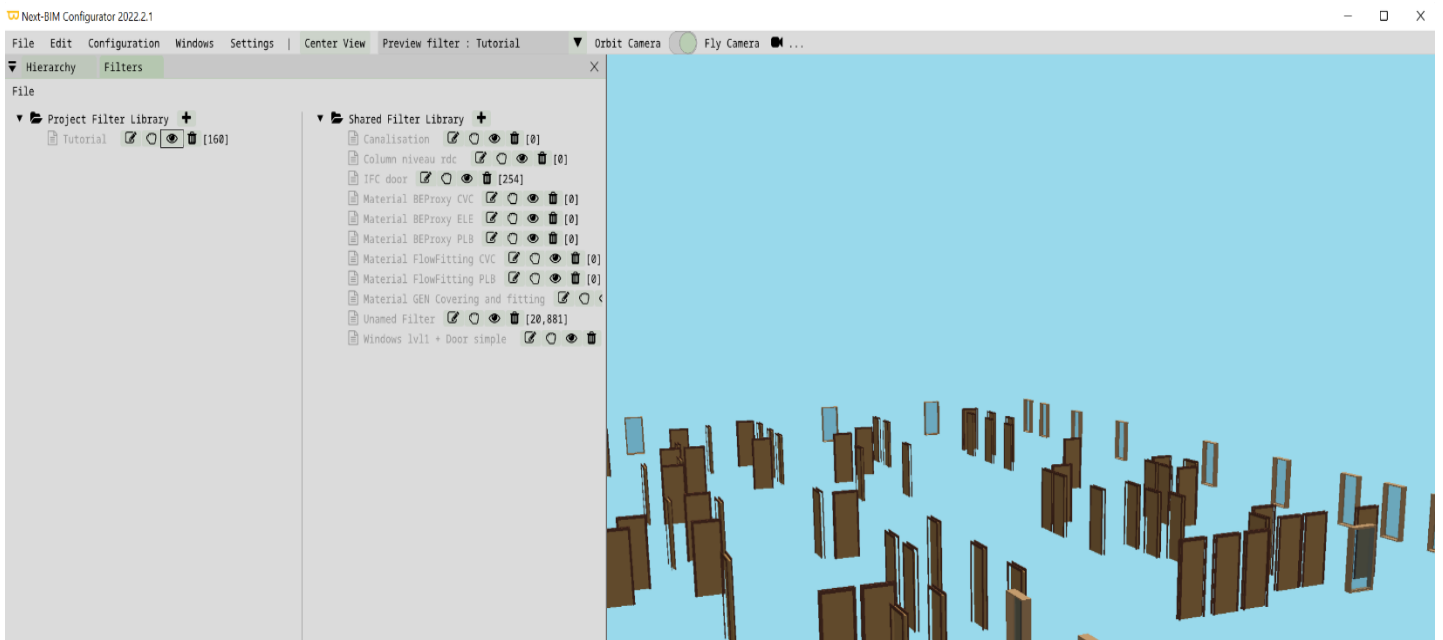
1. We want to add the windows on level 1 in addition to the doors on level 1, 0.915m.
 2. We transform our previous filter (0.915m level 1 door) into a nested filter (rule group).
 3. Apply a general "OR" rule.
 4. Now we want to add the level 1 windows. Add a nested rule group.
 5. Add rules for level 1 windows inside the rule group.
- Use a rule type (class ifc) to select the windows.
 - Add a storey rule to select level 1.

Warning: when creating a filter with a type-based rule (class ifc), it is important to ensure that the ifc class contains only the objects you wish to include in the filter. If the ifc class contains other object types that should not be included, you will need to use additional rules such as rules based on properties, names, etc., to refine the selection of objects to be included in the filter.

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Result :



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C. Others example

Here's an example of using nested rule sets with AND and OR conditions:

Suppose you want to filter the elements of your BIM model according to the following criteria:

1. Select all Level 1 walls (Storey rule: Level 1).
2. Select all "Window" elements with a height greater than 2 meters (Type rule: Window, Property rule: Height > 2m).

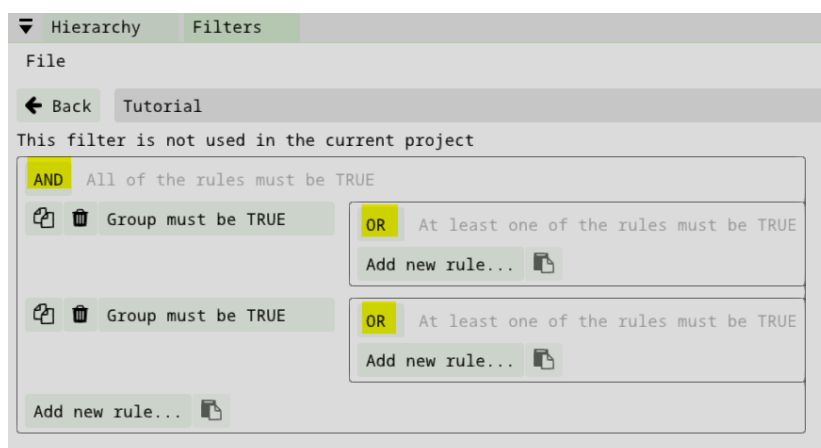
To do this, you can create a filter with the following nested rule sets:

1. Rule set 1 (AND condition) :
 - Rule 1: Storey rule: Level 1 (selects walls on level 1).
 - Rule 2: Rule group (OR condition):
 - Subrule 1: Type rule: Window (selects windows).
 - Sub-rule 2: Property rule: Height > 2m (selects elements with a height greater than 2 meters).

In this example, rule set 1 must satisfy both rule 1 (selection of walls on level 1) and rule set 2 (selection of windows with a height greater than 2 meters).

Using this configuration, you can obtain a filter that accurately selects walls on level 1 and windows with a height greater than 2 meters.

This example illustrates how nested rulesets with AND and OR conditions can be used to create complex, precise filters based on different selection criteria.





Hierarchy Filters

File

← Back Tutorial

This filter is not used in the current project

OR At least one of the rules must be TRUE

- Group must be TRUE **AND** All of the rules must be TRUE
Add new rule...
- Group must be TRUE **AND** All of the rules must be TRUE
Add new rule...

Add new rule...



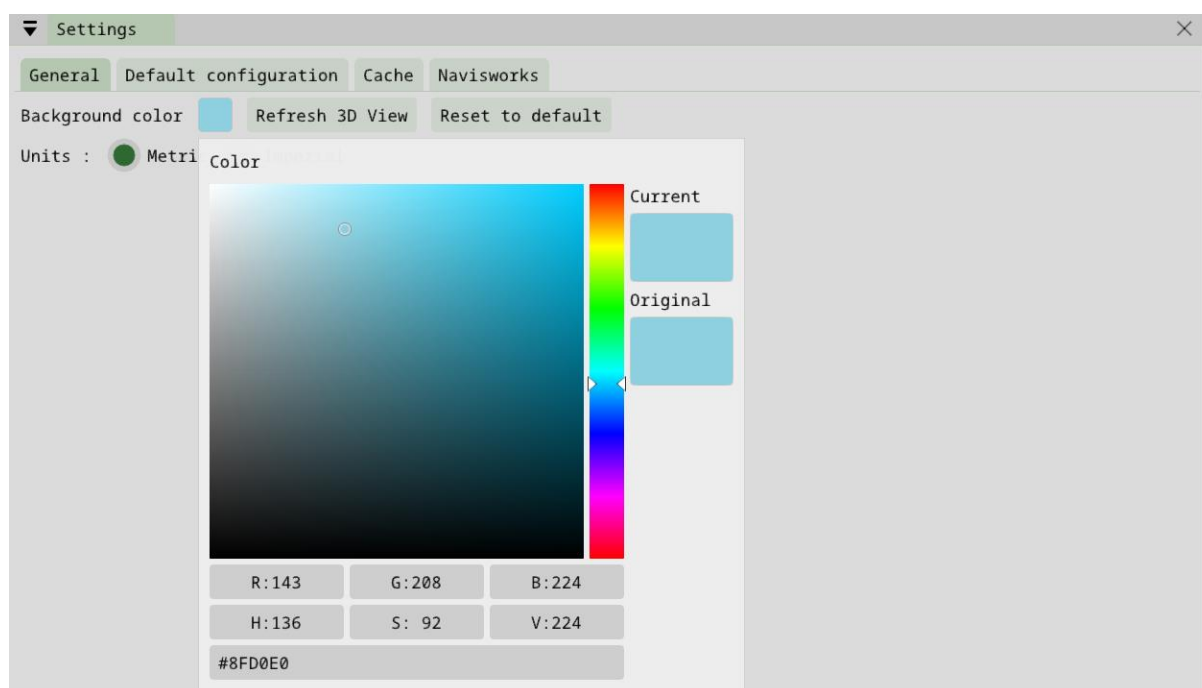
IX. Settings

A. General

1. Change background color

To change the background color in the settings, follow these steps:

1. Click on the "settings" button in the top menu
2. In the settings window, find the "General" section
3. Look for the "Background Color" option
4. Click on the color box or button to open the color palette.
5. Select the desired color by clicking on it in the color palette.
6. Once selected, the color is immediately applied to the application background.



2. Set your unit of measurement

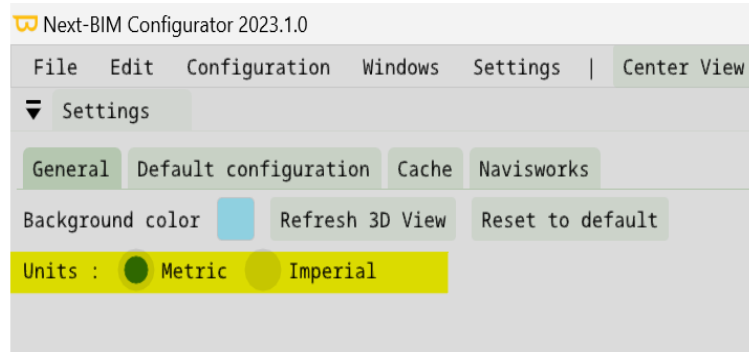
To change the unit of measurement in the parameters, follow these steps:

1. Click on the "settings" button in the top menu
2. In the settings window, find the "General" section

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3. Look for the "Units" option
4. Set the desired unit of measurement, Meters = Metric, Inches = Imperial



3. Default configuration

Allows you to set the current configuration as the default configuration when NEXT-BIM Configurator is opened.

B. Cache

When an *.ifc* file is loaded for the first time, it is converted to an *.nbim_preprocessed* file and placed in a cache folder. The next time the same *.ifc* is opened, the *.nbim_preprocessed* file is reused, rather than having to be converted again.

The location of the cache and its maximum size can be configured in the Settings > Cache menu.

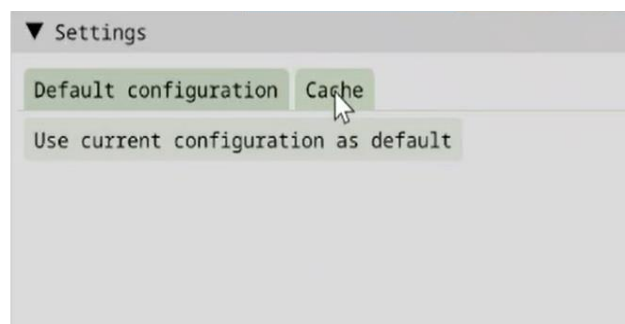
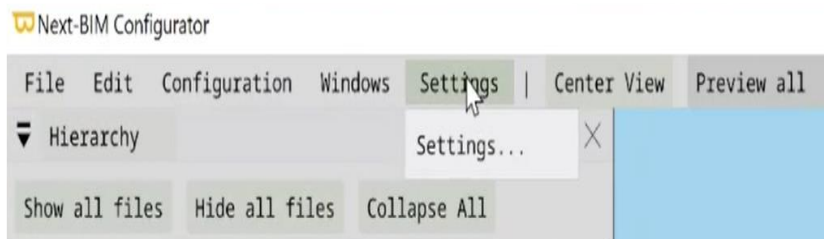


We advise you not to go below the default maximum size of default maximum size of 8 GB for ease of use.



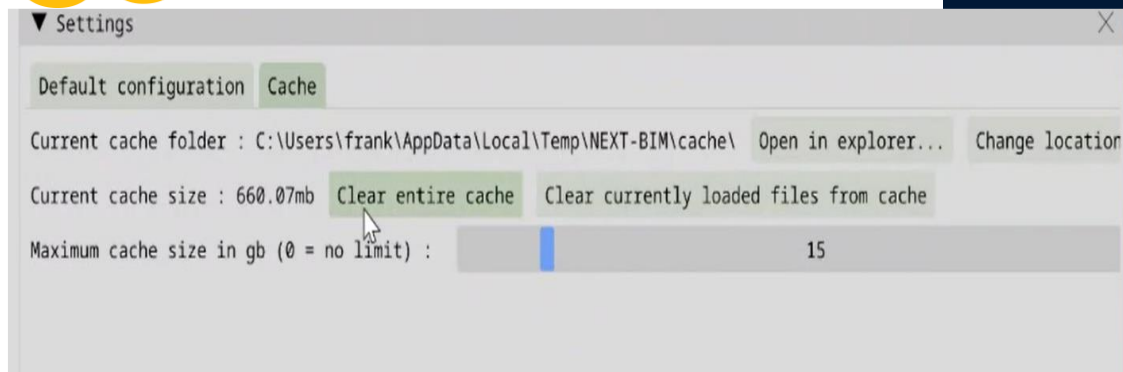
To manage the cache area in the application settings, follow these steps :

1. Access the application settings by clicking on the top menu.
2. Find and select the "Settings" option.
3. In the settings window, look for the "Cache" section or a similar option.
4. Click on the "Cache" option to access the cache zone settings.
5. You should see options for configuring cache location and maximum size.
6. To change the cache location, click on the corresponding option and select the desired folder.
7. To change the maximum cache size, you can usually adjust a slider or enter a specific value.



1. Clear your cache

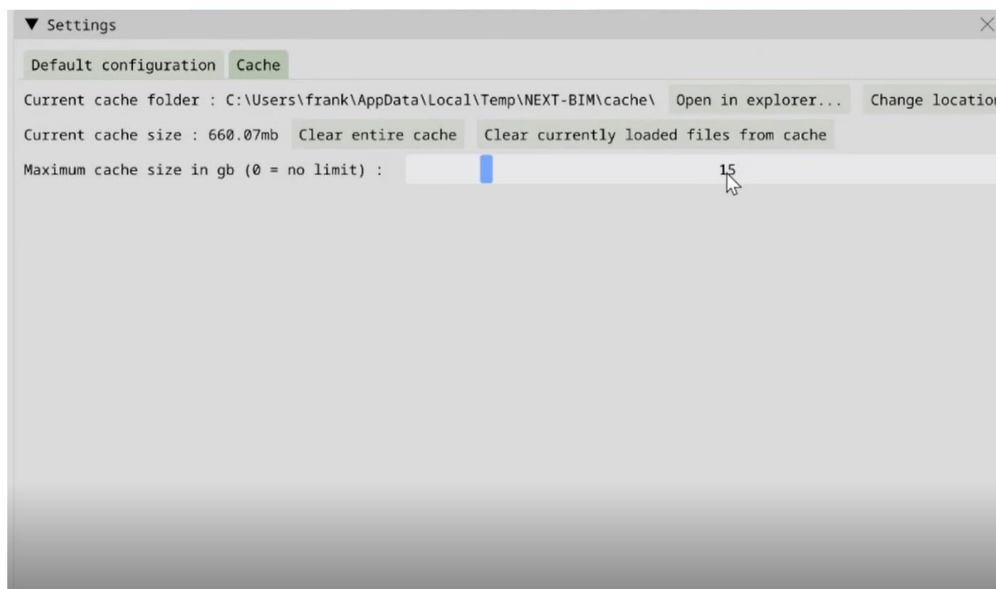
To clear the cache, Cache> "Clear entire cache".



2. Increase cache storage capacity

To increase the size of your cache zone, Cache > Drag the "Maximum cache size" bar.

"Maximum cache size"

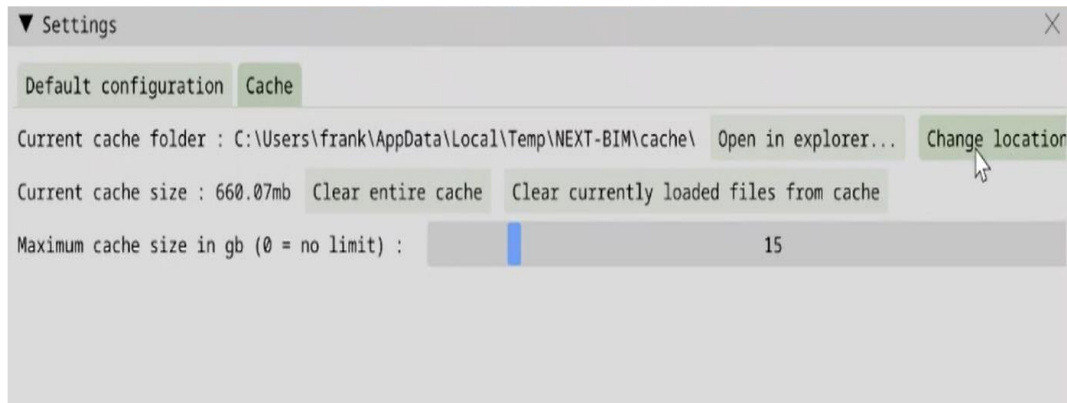


Note that the cache zone is automatically updated if the weight of the cache zone exceeds the defined weight ("Maximum cache size"). The cache is updated from the oldest file to the most recent.



3. Change destination of .nbim_preprocessed files

To change the location of .nbim_preprocessed files on your computer, Cache > Change Location



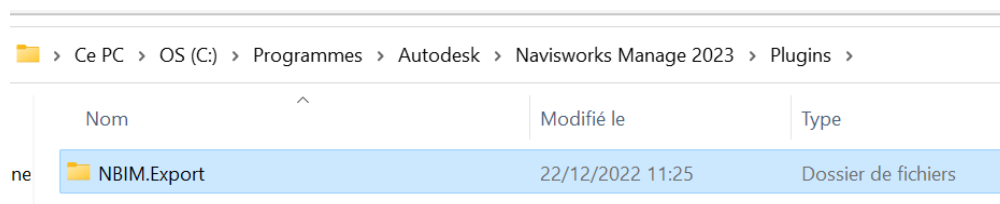
C. Navisworks Plugin

1. How to install the Navisworks plugin ?

To install the Navisworks plugin and integrate it with NEXT-BIM Configurator, follow these steps:

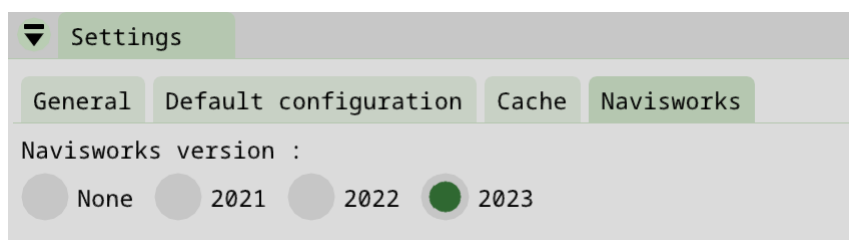
1. Download the Navisworks plugin package from the following GitHub page: <https://github.com/NEXT-BIM/next-bim-releases/releases/tag/v2023.1.0>.
2. Make sure you have already installed NEXT-BIM Configurator, at least version 2023.1.0.
3. Go to the NEXT-BIM Configurator installation folder on your system.
4. In the Configurator folder, find the folder "deps "[Version]\NBIM.Export". Copy this folder.
5. Go to the Navisworks Manage installation folder on your system. By default, it is located in "C:\Program FilesAutodesk\Navisworks Manage [Version]".
6. Paste the "NBIM.Export" folder you copied earlier into the Navisworks Manage "Plugins" folder. Make sure the .dll file is located as follows: "C:\Program Files\Autodesk\Navisworks Manage [Version]\Plugins\NBIM.Export\NBIM.Export.dll".

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Be sure to replace "[Version]" with the specific version of Navisworks you're using. For example, if you're using Navisworks Manage 2023, the full installation path would be "C:\Program Files\Autodesk\Navisworks Manage 2023\Plugins\NBIM.Export\NBIM.Export.dll".

7. In the Configurator, access the "Settings" menu, go to the "Navisworks" tab and select the corresponding Navisworks version. This will enable the Configurator to work in harmony with Navisworks.



Once these steps have been completed, you can open Navisworks files from the Configurator using the "File/Add .ifc" option. You can select .nwd/.nwc/.nwf files and open them directly in the Configurator.

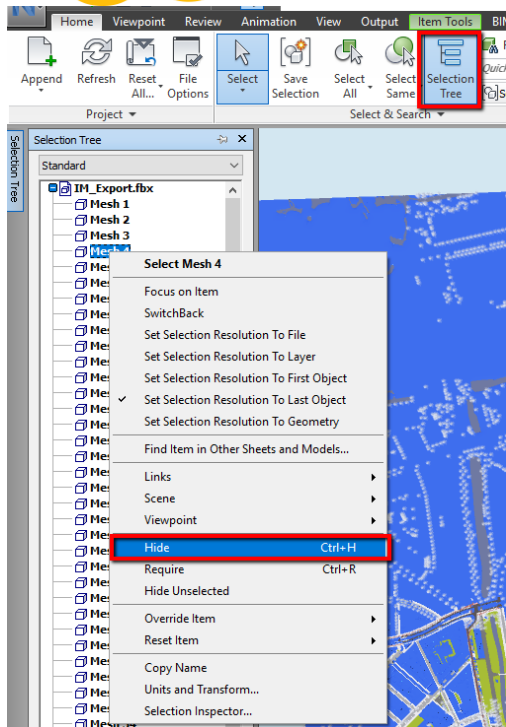
This will enable you to use NEXT-BIM Configurator functions with your Navisworks files.



2. Navisworks Process

The process for using Navisworks with NEXT-BIM Configurator is as follows:

1. In Navisworks, ensure that your project contains all the objects you want to visualize in NEXT-BIM Configurator.
2. Create discipline-specific batch files to organize your objects. For example, create separate files for architecture, structure, electrical, plumbing, etc. It is recommended to include keywords in the object names to facilitate sorting and the application of specific configurations.
3. If your project is in a format other than .NWD, .NWC, or .NWF, you need to convert it to .NWF format. Use the conversion function in Navisworks to perform this operation.
4. Certain objects may have an impact on HoloLens performance. If these objects are not necessary for your use case, it is recommended to hide or delete them. Here is a list of objects that are not recommended: grid with small openings, unnecessary facade, detailed CAD parts/machines, screws/fasteners. Hiding or deleting these objects in Navisworks will reduce the complexity of the model for optimal use in NEXT-BIM Configurator. You can use the context menu of the selection tree in Navisworks to hide objects or files.



5. If your Navisworks model is too heavy or if you need a specific section for your use case, you can use the cutting function in Navisworks. Here are the steps to follow:
 - Select "Viewpoint" in the Navisworks menu bar, then choose "Enable Sectioning."
 - Select the "Box Section" mode.
 - Perform the cut on your model by defining the cutting box.
 - Save the cut in a separate file by clicking on the Navisworks icon at the top left of the interface, then selecting "Save As." Save the file in .NWF format.
6. Once you have prepared your Navisworks model following these steps, you can import it into NEXT-BIM Configurator for optimal visualization and collaboration.

3. Cutting your Navisworks model

To cut your model in Navisworks and save the cut as a separate file in NWF format, follow these steps:

1. Import your model into Navisworks.
2. Access the "Viewpoint" menu in the Navisworks menu bar.

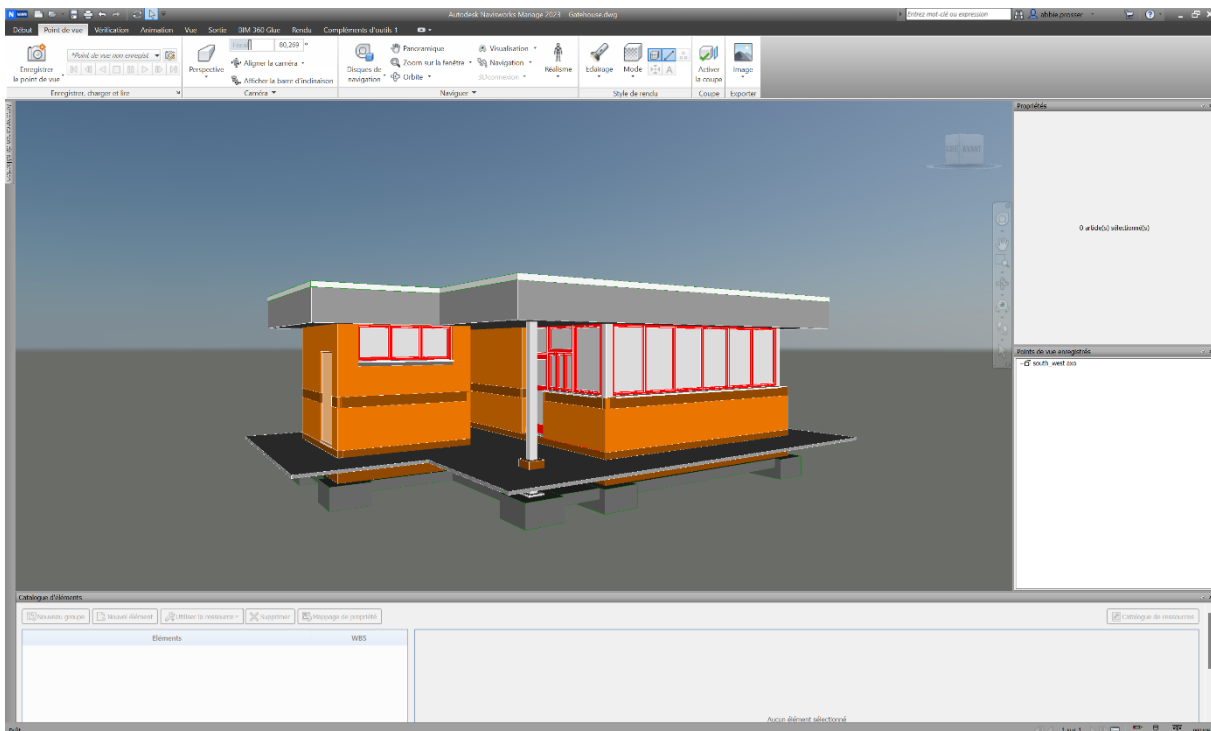
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3. Select "Enable cut" from the drop-down menu.
4. Select the "Box cut" mode from the cut options.
5. Use mouse manipulation to define the cut box around the part of the model you wish to keep.
6. Once the cut has been made, click on the Navisworks icon in the top left-hand corner of the interface.
7. Select "Save as" from the drop-down menu.
8. Save the file in NWF format, giving it a distinct name to indicate that it is the cut version of the model.

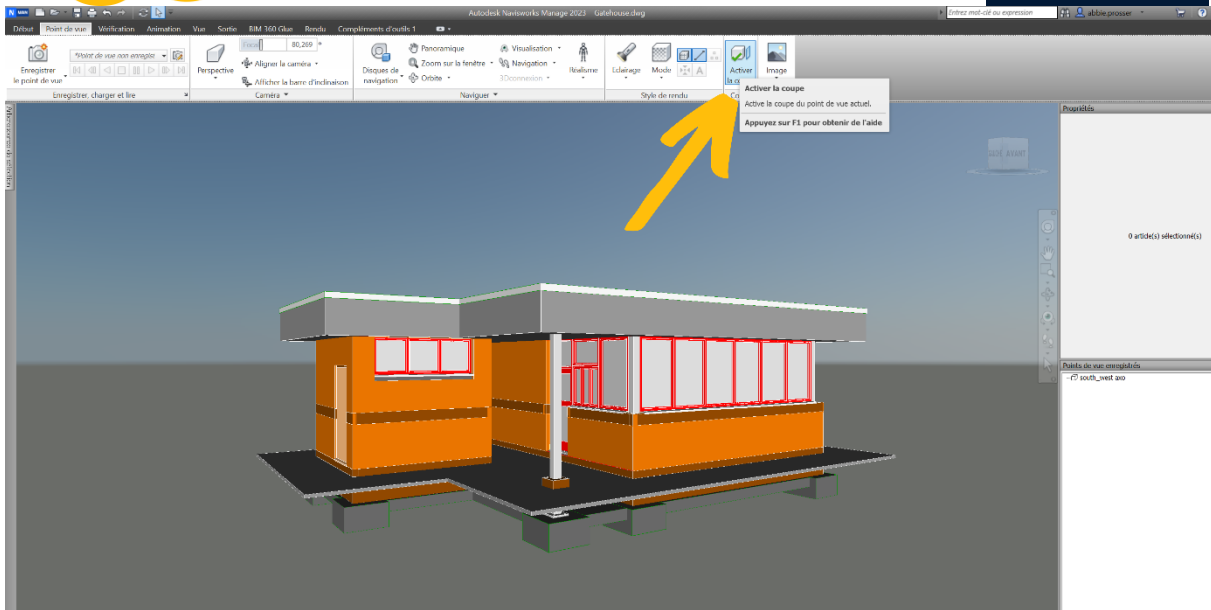
By following these steps, you can create a specific cut of your Navisworks model and save it as a separate NWF file. This cut can be used for more targeted visualization or to meet specific use cases in NEXT-BIM Configurator.

- Import file into Navisworks

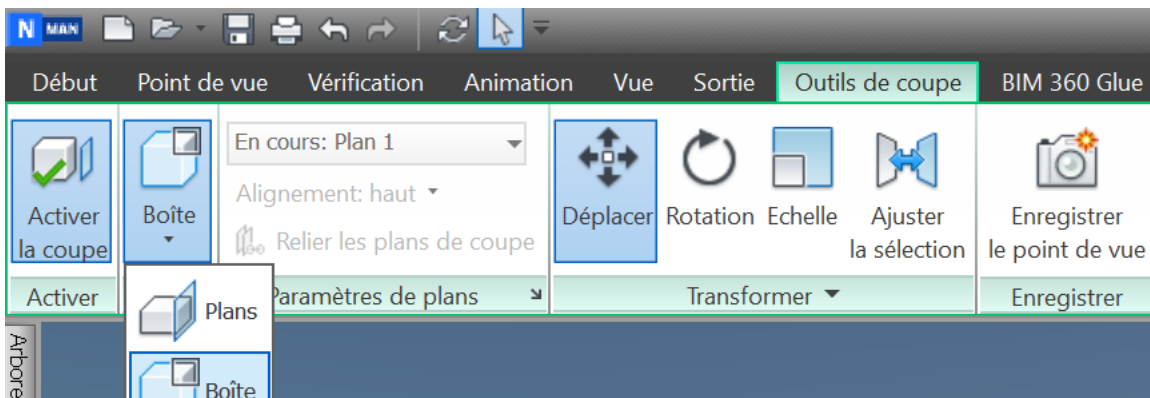


- Go to "Viewpoint" > "Activate cut".

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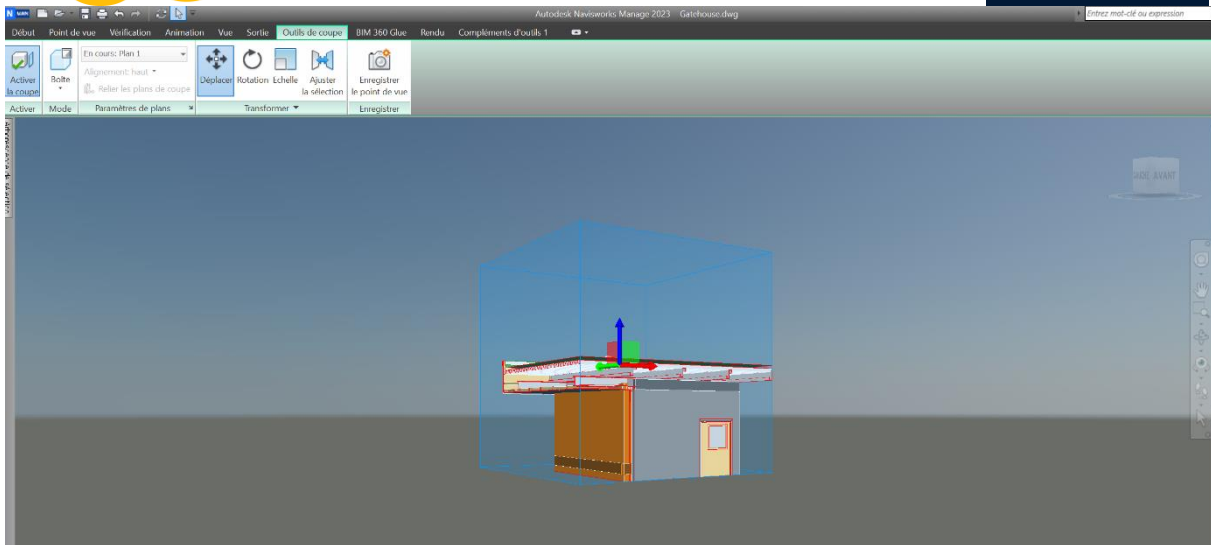


- Select box cut mode.

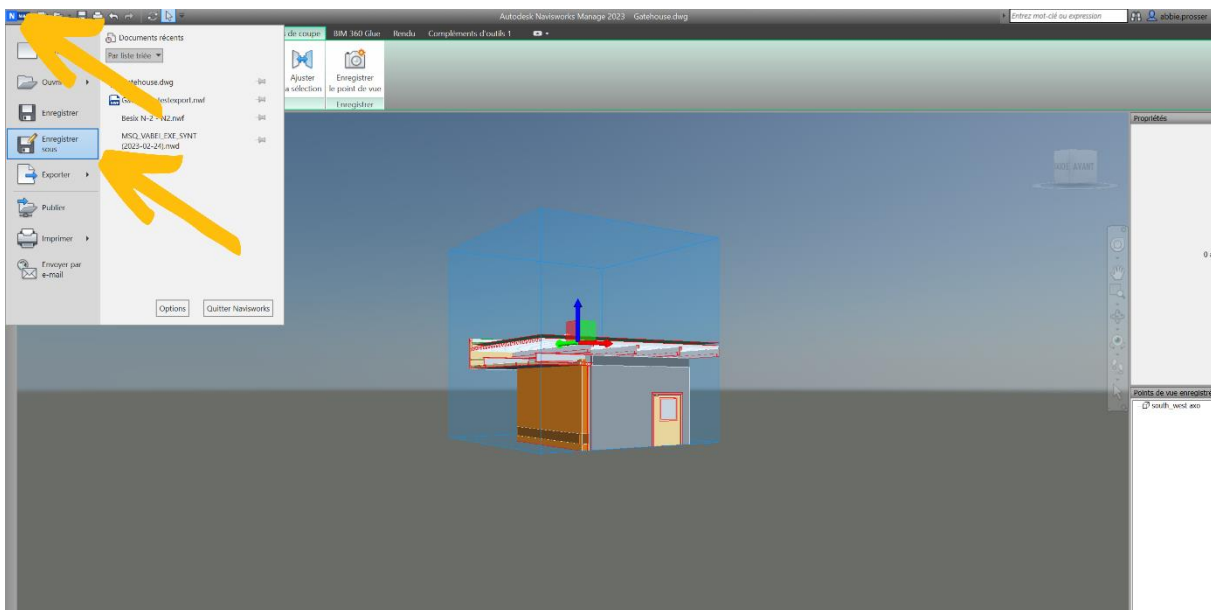


- Cut the model

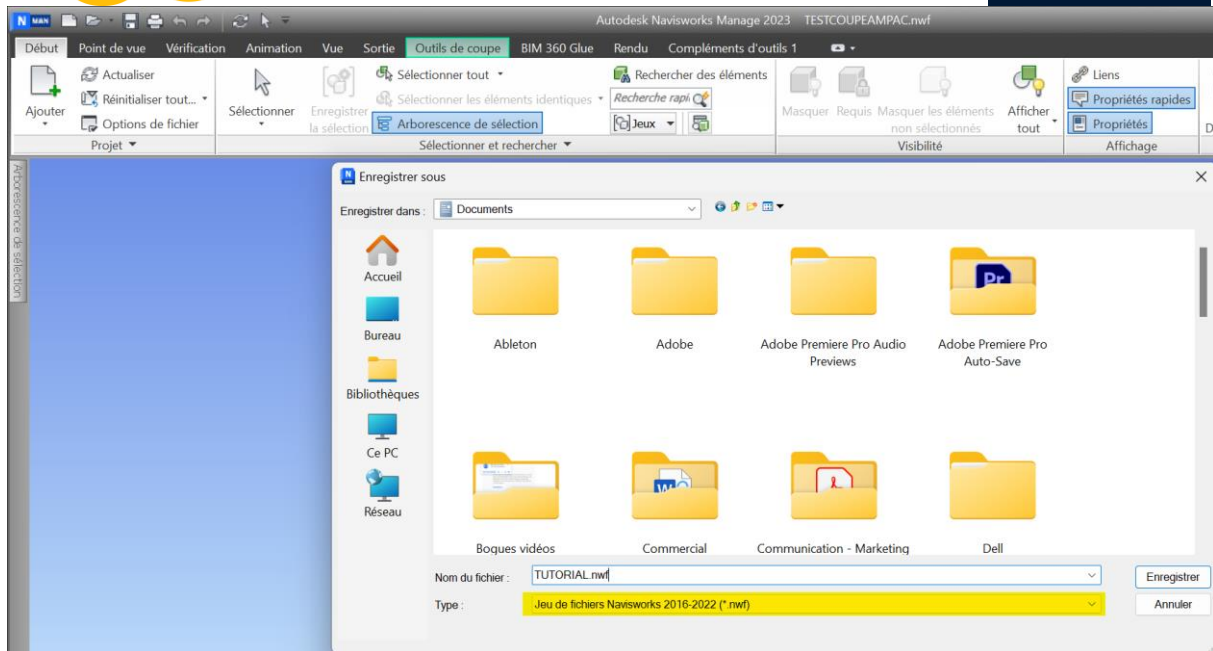
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- Save your cut as a separate file. Click on the Navisworks icon at top left and click on "save as" > save file in NWF format..



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4. How do I convert my project to .NWF format?

To convert your Navisworks project to .NWF format, follow these steps:

1. Open your model in Navisworks.
2. Configure your view according to your needs, by hiding files or objects, or using trim boxes to delimit the desired area.
3. Once you've configured your view as you wish, you can export it in .NWF format.
4. In Navisworks, click on the Navisworks icon at the top left of the interface.
5. In the drop-down menu, select "Export" or "Export".
6. Choose the "Navisworks NWF (*.nwf)" export format.
7. Select the destination location where you wish to save the .NWF file.
8. Click on the "Export" or "OK" button to start the export process.

Navisworks will convert your project to .NWF format, preserving the view parameters you have configured. Once the export is complete, you'll have a .NWF file ready to use in NEXT-BIM Configurator for your viewing and configuration needs.

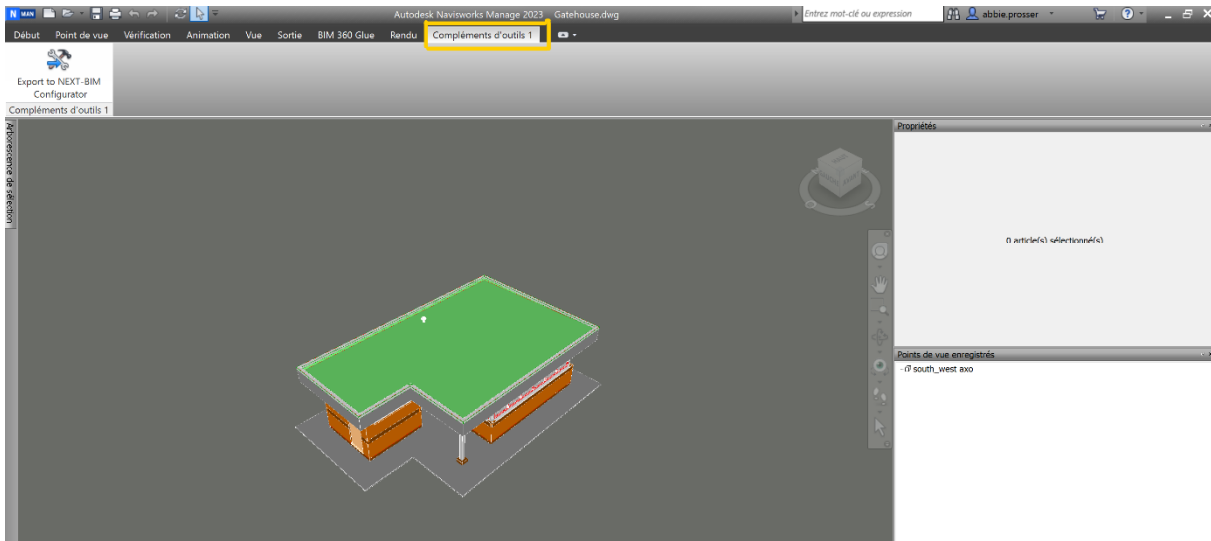
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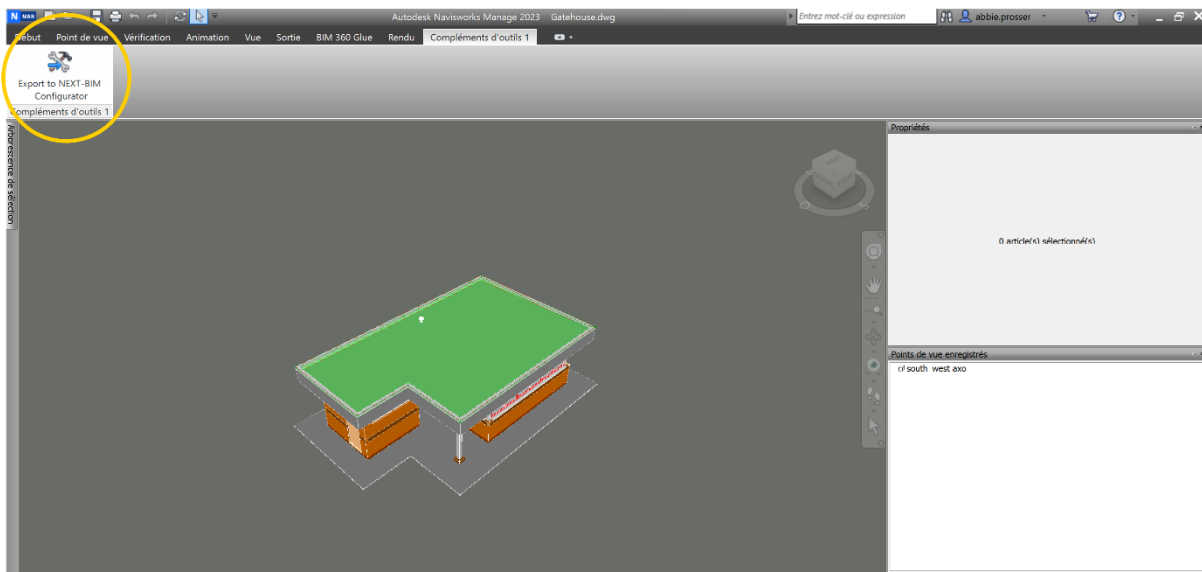
5. Open my Navisworks files (NWD, NWC, NWF)

To open a Navisworks file in NEXT-BIM Configurator, follow these steps:

1. Open NEXT-BIM Configurator.
2. Open the file in Navisworks
3. Go to "Additional tools".



4. Click on "Export to NEXT-BIM Configurator", and your file will be imported into NEXT-BIM Configurator. In NEXT-BIM Configurator's "File" menu, select "Add file".



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- If your file contains sub-files or linked files, you can select them from the "Hierarchy" window in NEXT-BIM Configurator
- Once you have selected the desired files, click on "Import" to import them into NEXT-BIM Configurator.

As a reminder, NEXT-BIM supports .NWD and .NWF file formats for direct import. If you have another file format supported by Navisworks (see the list of formats here: <https://help.autodesk.com/view/NAV/2023/ENU/?guid=GUID-1DD9E13D-7FEC-4936-B45E-C59E4A3E96EC>), you will need to convert it to .NWF format before you can import it into NEXT-BIM Configurator.

X. “Edit” > “Find” : Search function

A. Perform a search (Edit>Find)

To perform a search in NEXT-BIM Configurator, follow these steps:

- 1) From the "Edit" menu, select "Find" or use the corresponding keyboard shortcut.
- 2) In the search window that opens, you can specify the search criteria for the objects you wish to find.
- 3) For example, you can search by name, type (ifc class), storey (floor), .ifc file or object properties.
- 4) Enter the appropriate search criteria in the corresponding fields.

You can search for full or partial names using keywords.

- 5) Click on "Find" to launch the search.



B. Creating a selection of objects using the "Find" tool

:

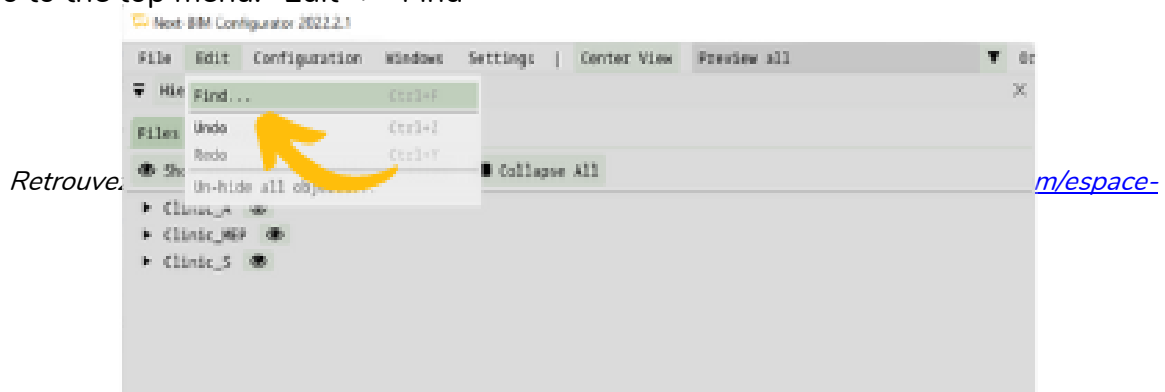
To create a selection of objects using the "Find" tool:

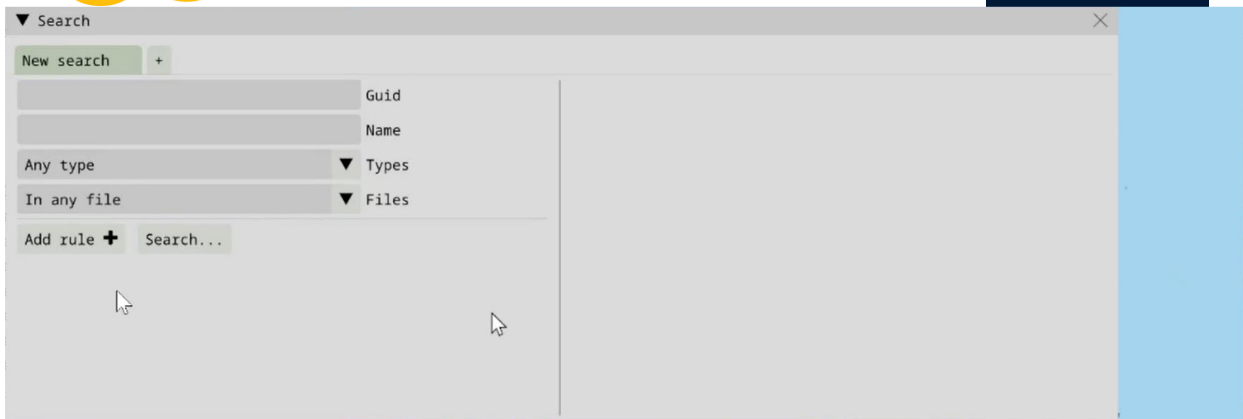
- After performing a search with the "Find" tool, matching objects will be displayed in the search result window.
- You can see the number of objects found and the details of the search.
- To add the objects found to your selection, click on "Append". If a selection is already active, you can choose to replace it by clicking on "Replace".
- Once you've added the objects to your selection, the "Selection" window will automatically open, highlighting the selected objects.
- You can also change the highlighting color by clicking on "Highlight selection" and choosing a different color.
- If you wish to perform another search, you can click on the "+" button to open a new search window and specify new criteria.

This enables you to search for and select specific objects according to your search criteria in NEXT-BIM Configurator.

C. Example :

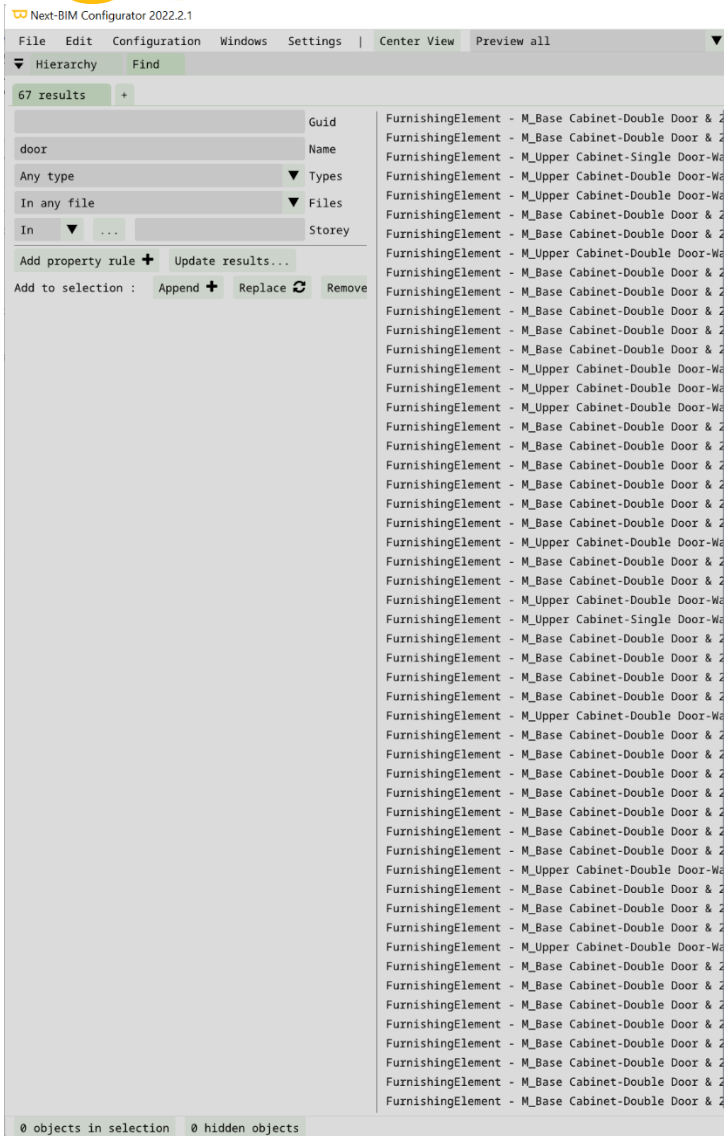
Go to the top menu: "Edit" > "Find"



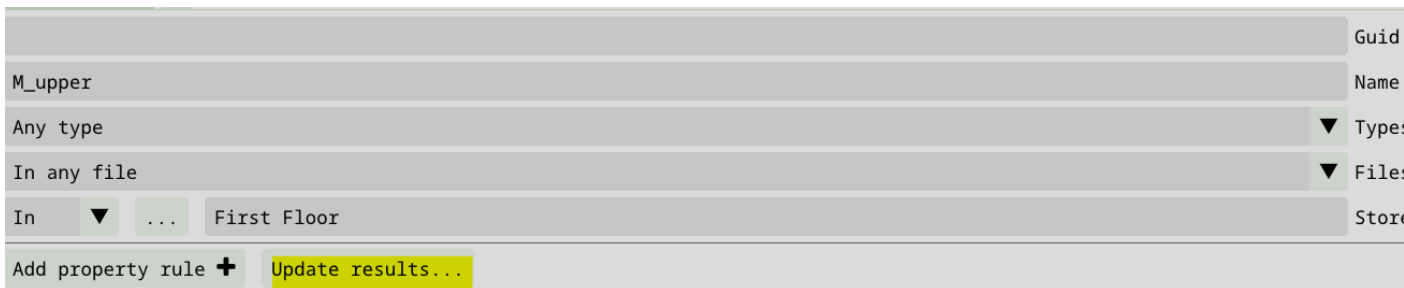


1. Filter searches by name

You can search for objects by their full or partial name, i.e. if the object is called "M_Upper Cabinet - Single Door - Wall", searching for "Door" in "Name" will bring up all objects with "Door" in their name.

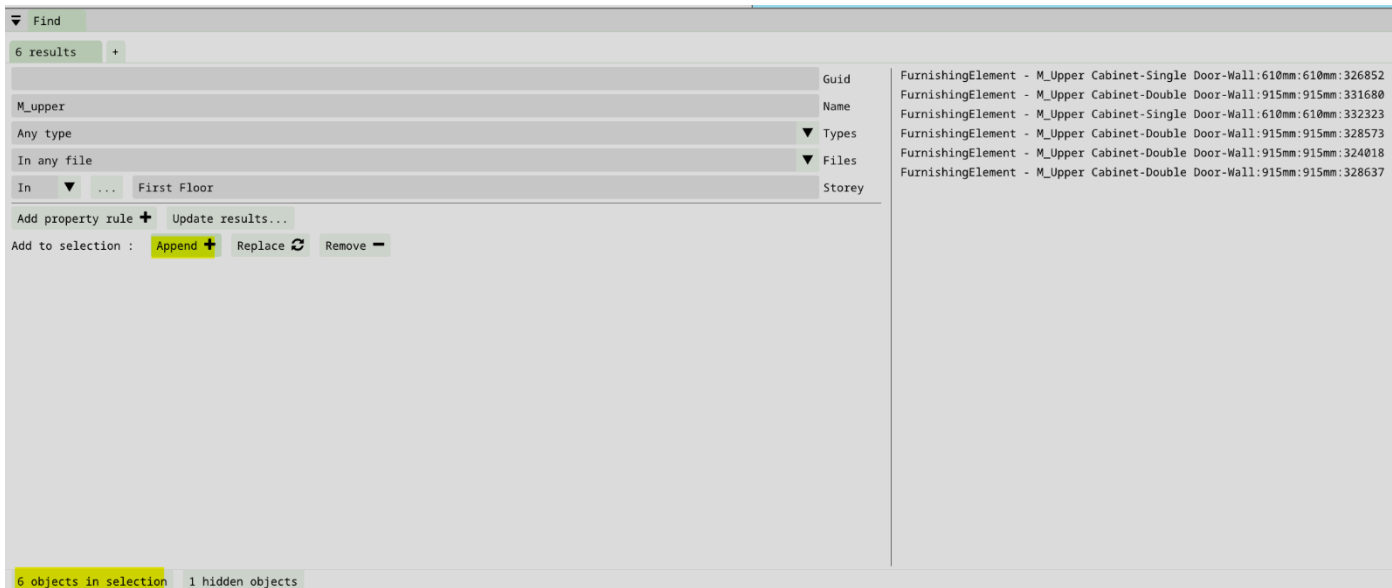


67 objects with the word "Door" were found. To find the "M_Upper Cabinet - Single Door - Wall" doors, repeat the search by name with "M_upper", for example, by clicking on "update result".



To add them to our selection, click on >Append. If a selection is already active, click on "Replace" to replace the selection with your latest search.

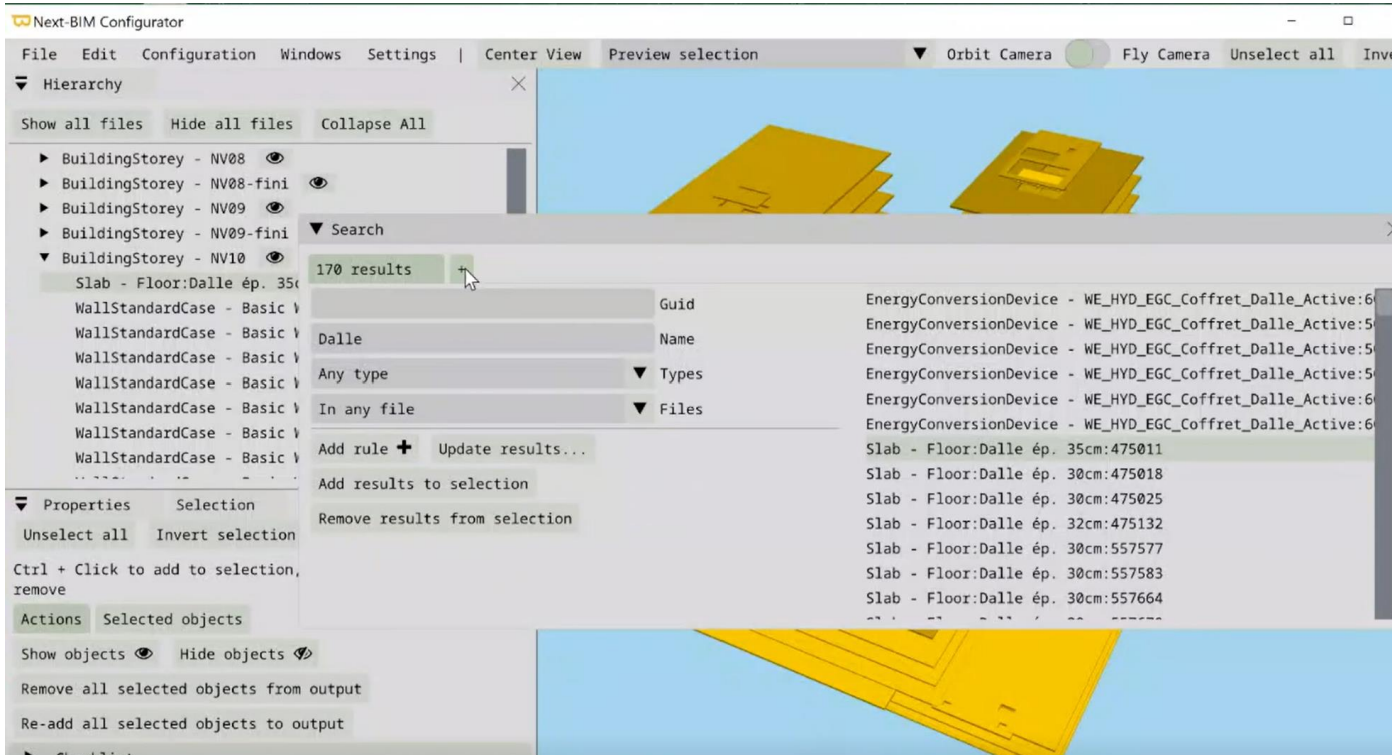
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



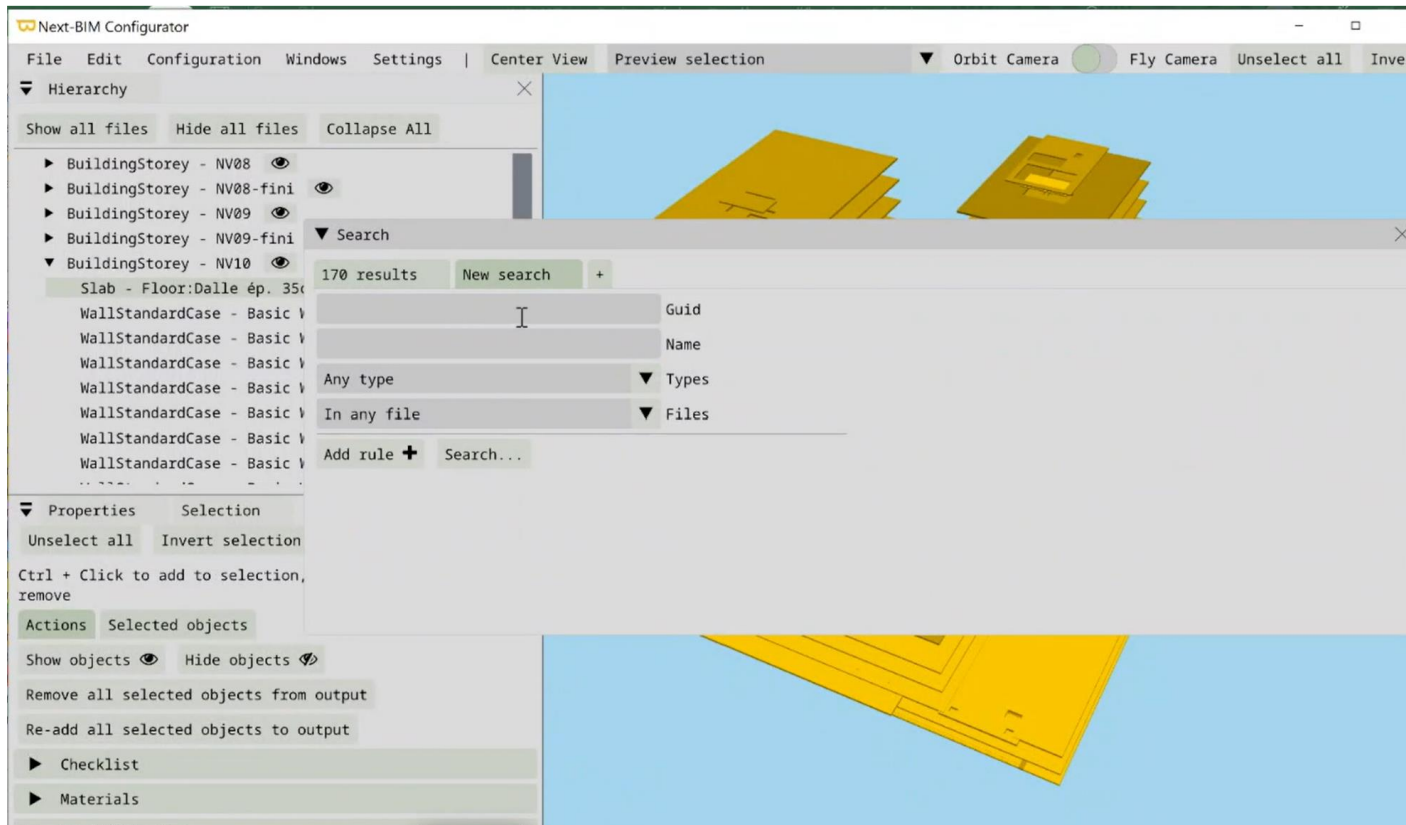
Once added, the "Selection" window opens automatically.

Selected objects are highlighted. You can remove the selection color by clicking on "Highlight selection".

To perform a second search, return to the Edit>Find tab and click on the the "+" button.



Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

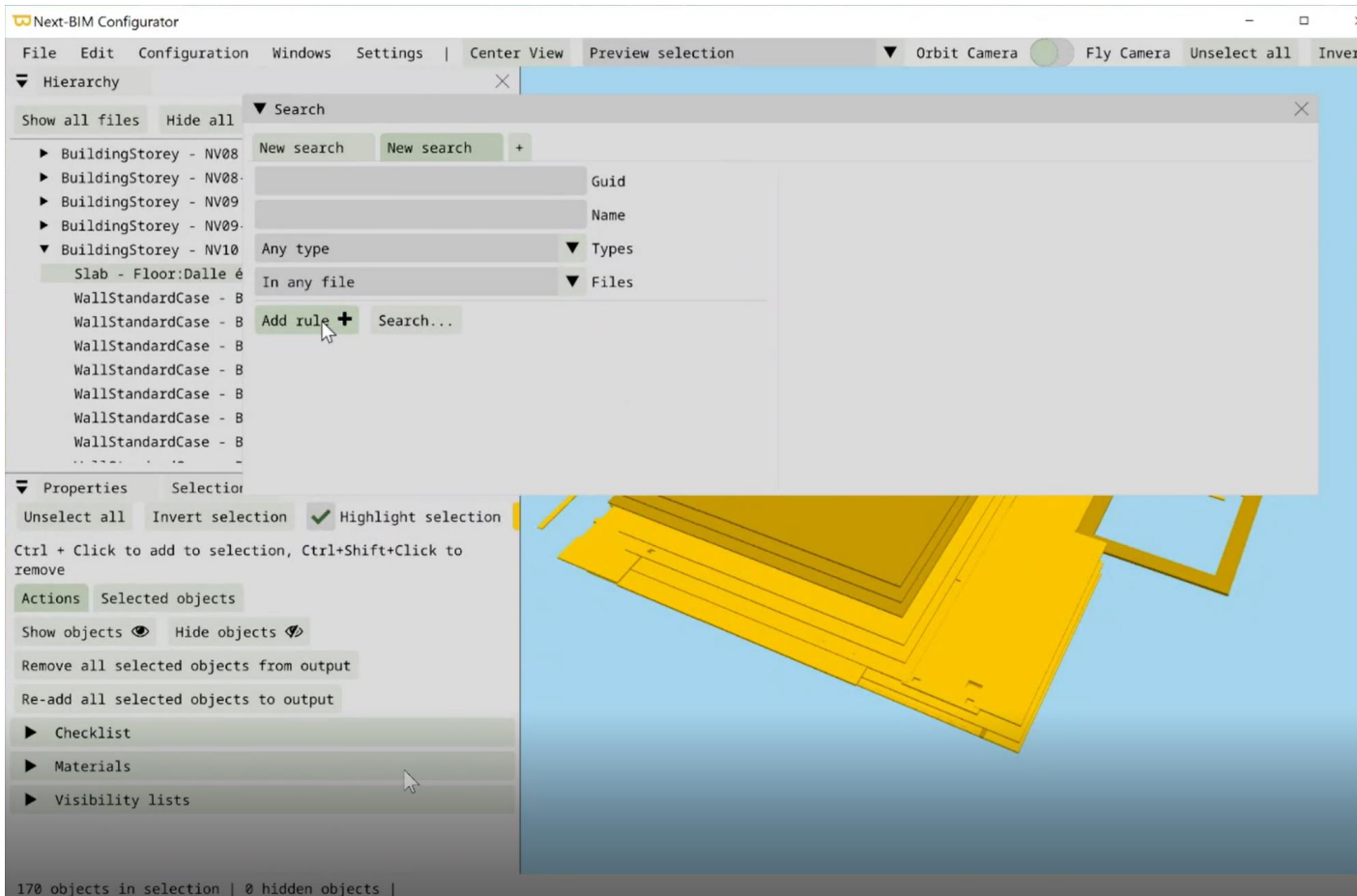


2. Filter searches by properties

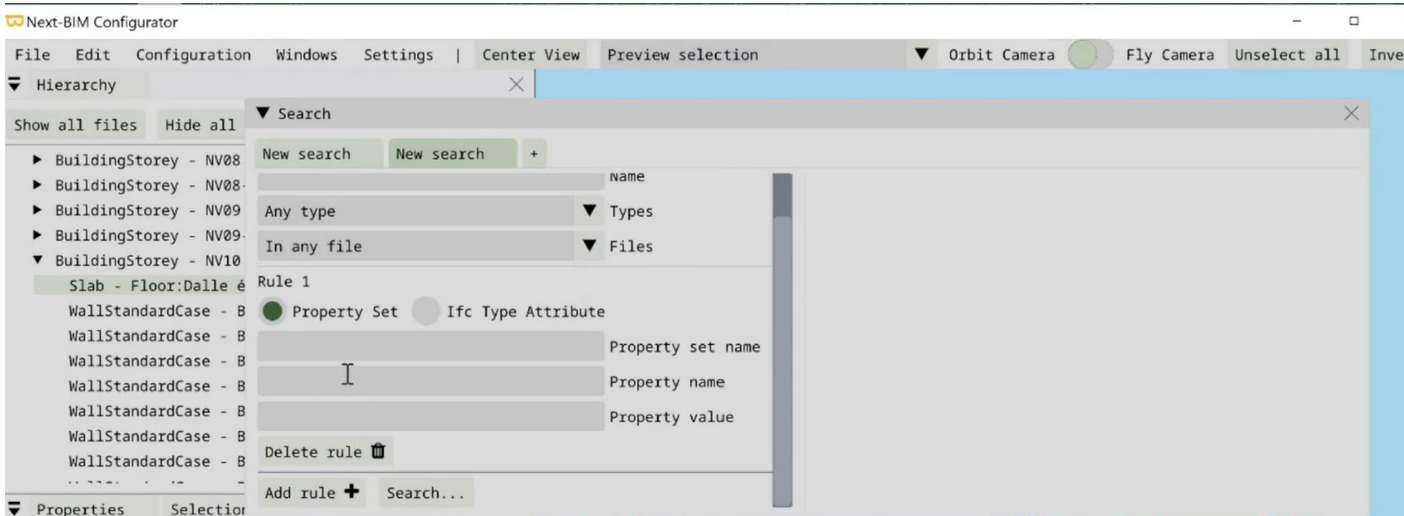
Example :

To apply rules to search for objects by properties, Edit>Find and click on the "Add rule" button.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



Three property filters are available: by set name, by name and by value.
(name), by value (value)



Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



Enter the corresponding Property: Set name / Name / Value to search for objects.

It is important to note that if you create a filter from a selection of objects in NEXT-BIM Configurator, this specific configuration will not be automatically reapplied to another project.

XI. Configuration

A. Configure annotations : Preparing your annotation list

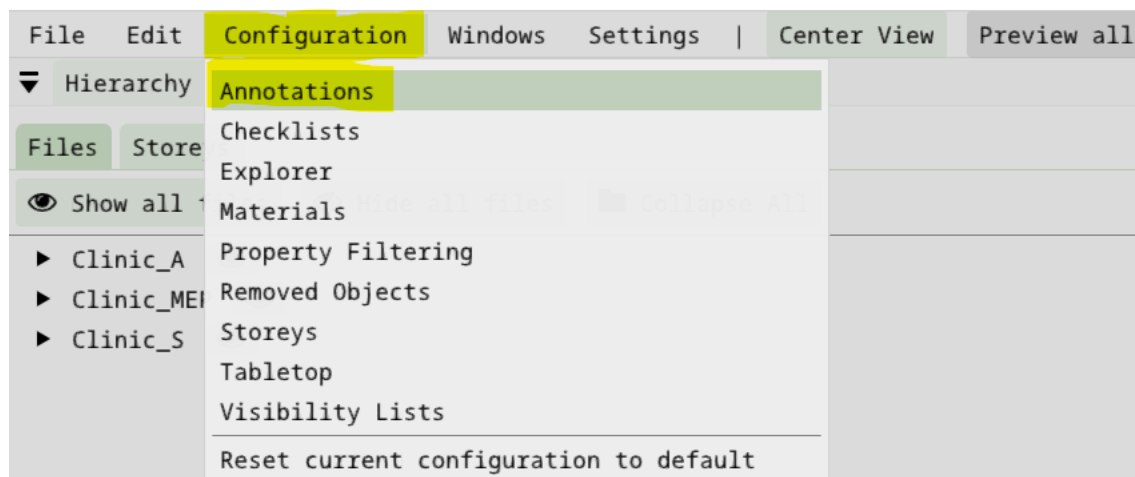
Annotation editing is available in the headset, but the headset's virtual keyboard is less ergonomic than a computer keyboard, which is why we're configuring annotations here.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



To configure your annotations, Configuration>Annotations

Next-BIM Configurator 2022.2.1

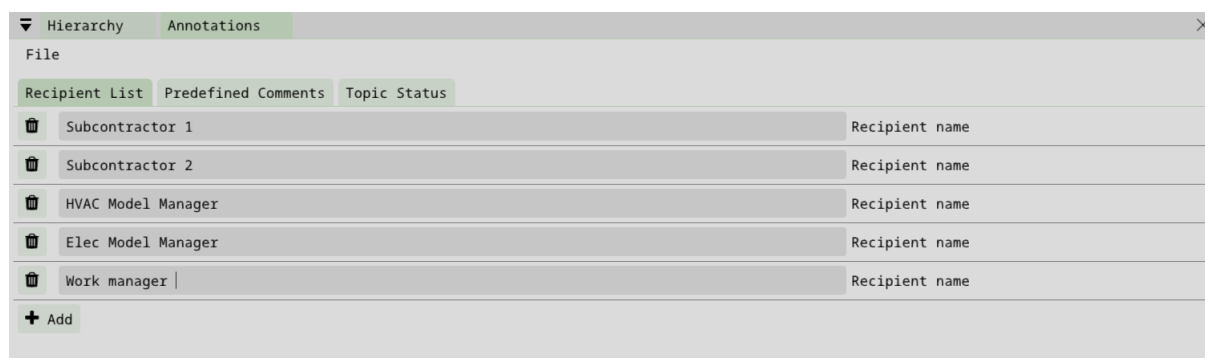


1. Adding/deleting a user/asignee

In the "Users/Asignees" tab, you can add or remove recipients (subcontractors, layout managers, etc.) or users (annotation creators).

To add a recipient, click on "Add" and enter the recipient's e-mail address/name.

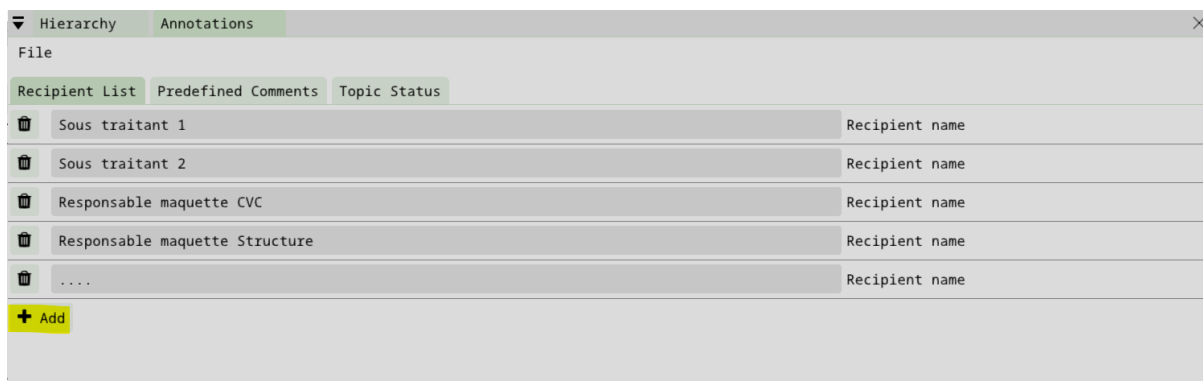
Add e-mail addresses if your BIM management platform uses e-mail.



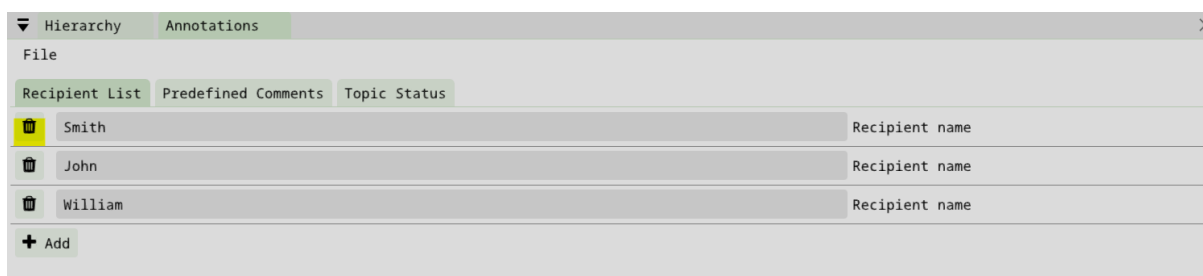
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



To add a recipient, click on "Add" and add the recipient(s) verbatim.



To delete a recipient, click on the trash can icon to the left of the recipient's name.



2. Edit titles and comments (annotations)

You can configure annotation titles and comments. We advise you to identify your uses and their recurring problems, and to create a list adapted to your recurring problems.

For example, for a reservation check during the execution phase, a common problem might be: "Incorrect location", with a comment stating "The element is not correctly positioned".

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



Don't hesitate to go further and indicate all types of conflict, e.g. STR / ELEC Conflict, STR / HVAC Conflict, etc. AND you can even differentiate the consequence of the action, e.g. STR / ELEC Conflict - on-site modification, STR / ELEC Conflict - model recollection, STR / HVAC Conflict - on-site modification, STR / HVAC Conflict - model recollection, etc.

	Title	Comment
	Placement	L'élément n'est pas correctement placé.
	Absence	Elément absent.
	Mauvaise référence	L'élément n'est pas celui attendu.
	A compléter	Problème à compléter.

Click on the "+ Add" button to add a new title and comment pair.

The trash icon lets you delete a predefined title and comment. To modify the content, simply replace the existing text.

Tips :

#1: Leave a "to be completed" option for the last annotation. This can be useful if a problem was not anticipated at the outset. On site, select this comment, and the problem can be modified from your BIM management platform (such as BIM Track, BIM Collab, Solibri, AxeoBIM) or via an Excel sheet using photos taken during the annotation. or on an excel, using photos taken during the annotation

#2: It is recommended to restrict annotation lists according to specific uses, and to create several annotation lists according to use cases.

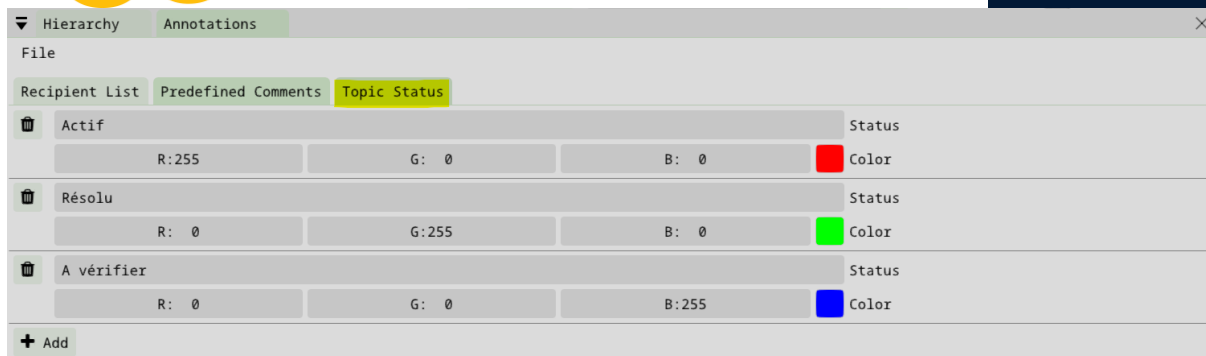
3. Configure annotation statuses

Annotation statuses represent the evolution of your problems. Colors are associated with statuses.

As a reminder, the numbered annotation dots are visible in immersive or tabletop mode in NEXT-BIM Explorer. The colors make it easy to understand the status of the problem.

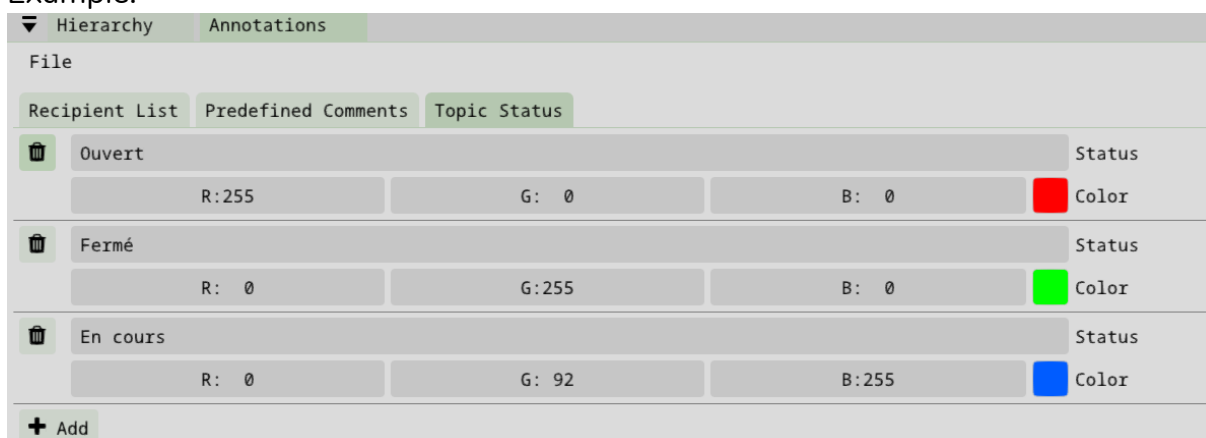
Configuration menu > Annotations > Topic Status

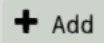
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



By default three statuses are available. add / modify / delete statuses according to your process.

Example:



To add "+ ADD" button 

To delete trash icon 

Modify status colors using RGB codes or the color palette by clicking on the colored square.



File Edit Configuration Windows Settings | Center View Preview all Orbit Camera Fly Camera ...

Hierarchy Annotations

File

Recipient List Predefined Comments Topic Status

				Status
Actif	R:255	G: 0	B: 0	■ Color
Résolu	R: 0	G:255	B: 0	
A vérifier	R: 0	G: 0	B:255	

+ Add

Color

R:255 G: 0 B: 0
H: 0 S:255 V:255
#FF0000

Current
Original

Tip #1: Maintain consistency of status and comments with your collaborative management platforms.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



4. Setting priorities

Priorities are used to classify new annotations according to their level of priority.

Maintain the priority fields corresponding to the fields in your management platforms.



Use the "+ ADD" button to add a new priority type..



Use the trashcan icon to delete a priority. To modify the content, simply replace the existing text.

a) Configurer la propriété techniques par défaut

It is possible to import technical properties (pset) into the comments of your annotations. You can configure a default property that will be automatically integrated into each annotation.

To do this, follow the steps below:

1. Access the annotations configuration by clicking on "Configuration" and then on "Annotations".
2. Select the "Default properties" tab.
3. Use the drop-down menu to select the name of the desired property set.
4. Then select the property name from the drop-down menu. The value of this property will be included by default in each annotation. You can add as many default properties as you like.
5. To select a property for a single annotation, you can do so directly from NEXT-BIM Explorer.

By setting a default property, you simplify the annotation process by automatically adding relevant information to each annotation. This allows you to organize and

structure your data more efficiently.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



▼ Hierarchy Annotations

File

Users & Assignees Predefined Comments Status Priorities **Default properties**

Select which object properties should be automatically added to the comment when placing an annotation
Tip : In the Properties window, right click a property and select "Add/Remove property from annotation default properties"

Property set name

Property name Add +

Next-BIM Configurator 2023.1.0

File Edit Configuration Windows Settings | Center View Preview all

▼ Hierarchy Annotations

File

Users & Assignees Predefined Comments Status Priorities **Default properties**

Select which object properties should be automatically added to the comment when placing an annotation
Tip : In the Properties window, right click a property and select "Add/Remove property from annotation default properties"

Property set name

Property name

- GSA Space Areas
- PSet_Revit_Analytical Model
- PSet_Revit_Constraints
- PSet_Revit_Construction
- PSet_Revit_Dimensions
- PSet_Revit_Electrical
- PSet_Revit_Electrical - Circuiting
- PSet_Revit_Electrical - Lighting
- PSet_Revit_Electrical - Loads
- PSet_Revit_Energy Analysis
- PSet_Revit_Fire Protection
- PSet_Revit_General
- PSet_Revit_Graphics
- PSet_Revit_Horizontal Grid Pattern
- PSet_Revit_Identity Data
- PSet_Revit_Materials and Finishes
- PSet_Revit_Mechanical
- PSet_Revit_Mechanical - Airflow
- PSet_Revit_Other
- PSet_Revit_Phasing
- PSet_Revit_Plumbing
- PSet_Revit_Structural
- PSet_Revit_Structural Analysis
- PSet_Revit_Type_Constraints
- PSet_Revit_Type_Construction
- PSet_Revit_Type_Dimensions
- PSet_Revit_Type_Electrical
- PSet_Revit_Type_Electrical - Loads
- PSet_Revit_Type_Energy Analysis
- PSet_Revit_Type_Fire Protection
- PSet_Revit_Type_Fitting
- PSet_Revit_Type_Graphics
- PSet_Revit_Type_Green Building Properties
- PSet_Revit_Type_Horizontal Grid Pattern
- PSet_Revit_Type_Horizontal Mullions
- PSet_Revit_Type_Identity Data
- PSet_Revit_Type_Materials and Finishes
- PSet_Revit_Type_Mechanical
- PSet_Revit_Type_Mechanical - Airflow
- PSet_Revit_Type_Other
- PSet_Revit_Type_Photometrics
- PSet_Revit_Type_Risers
- PSet_Revit_Type_Stringers
- PSet_Revit_Type_Structural
- PSet_Revit_Type_Treads
- PSet_Revit_Type_Vertical Grid Pattern
- PSet_Revit_Type_Vertical Mullions
- PSet_Revit_Vertical Grid Pattern
- Pset_BeamCommon
- Pset_BuildingCommon
- Pset_ColumnCommon
- Pset_CoveringCommon
- Pset_CurtainWallCommon
- Pset_DoorCommon
- Pset_RailingCommon
- Pset_RampCommon
- Pset_RampFlightCommon
- Pset_RoofCommon
- Pset_SlabCommon
- Pset_SpaceCommon

0 objects in selection 0 hidden objects

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

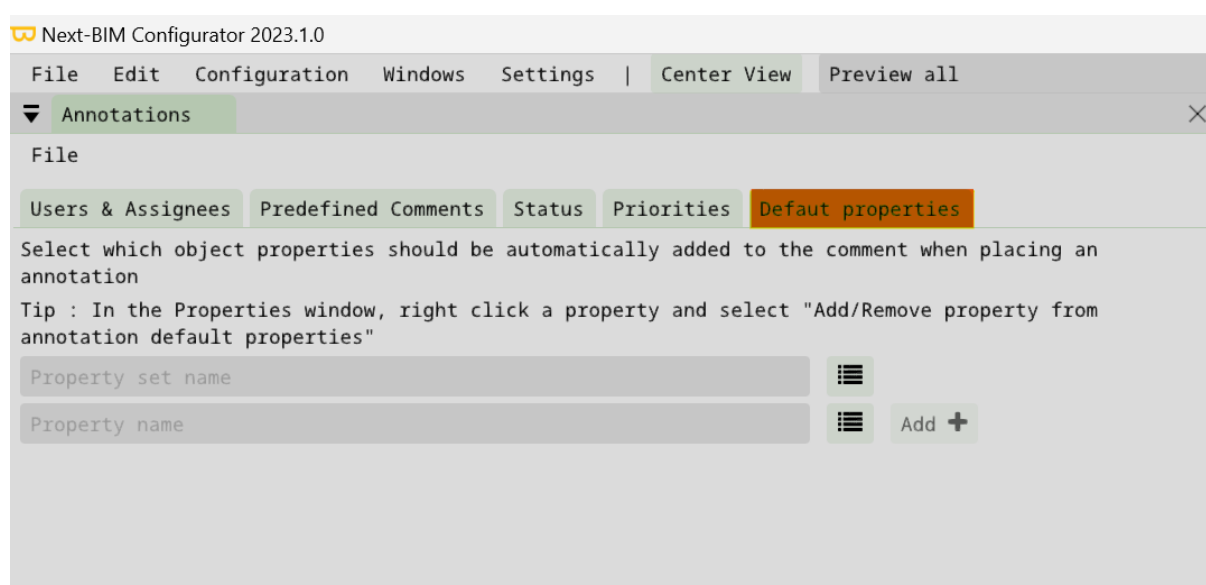


Integrating properties into the annotation comment allows you to add a specific piece of data.

For example, specify an area, building, material phase etc. in the annotation comment. You need to know the properties of your project in order to be aware of the possibilities.

In NEXT-BIM Configurator, you have the option of integrating a default property for each annotation. In NEXT-BIM Explorer, property modification is available to suit your contextual needs.

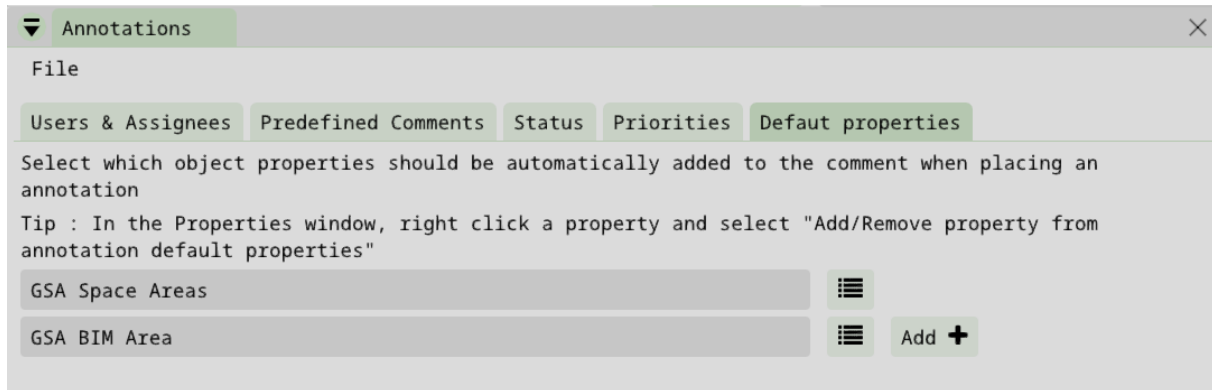
Configuration > Annotation > Default Properties



Use the drop-down menu to select the "Property Set Name" and "Property Name" to be included in each annotation. In this way, the property value will appear in the comment.



Example:



5. Retrieving/exporting annotations (.bcf or .xlsx + .jpeg files)

To retrieve or export your annotations in NEXT-BIM Explorer, follow these steps:

1. In NEXT-BIM Explorer's Annotations tool, select the annotations you wish to retrieve or export. You can use the filters and search options to refine your selection.
2. Once you've selected the annotations, you have two options for export:
 - a. Export in BCF format: Click on the export button and choose the option to export in BCF format. This will generate a BCF file containing all selected annotations, together with associated information such as images and comments. You can save this file on your computer or transfer it to other collaborative BIM management tools to share issues with your collaborators.
 - b. Export in XLSX + JPEG format: Click on the export button and choose the option to export in XLSX + JPEG format. This will generate an Excel file (XLSX) containing detailed information on each annotation, together with corresponding images (JPEG). This option is useful if you need a tabular view of your annotations.
3. Once you've exported your annotations in the desired format, you can import them onto your computer by connecting your PC to your HoloLens using a USB connection or the Windows Device Portal. Transfer the exported files (.bcf or XLSX + JPEG) to your PC for use in other tools or to share with your team.

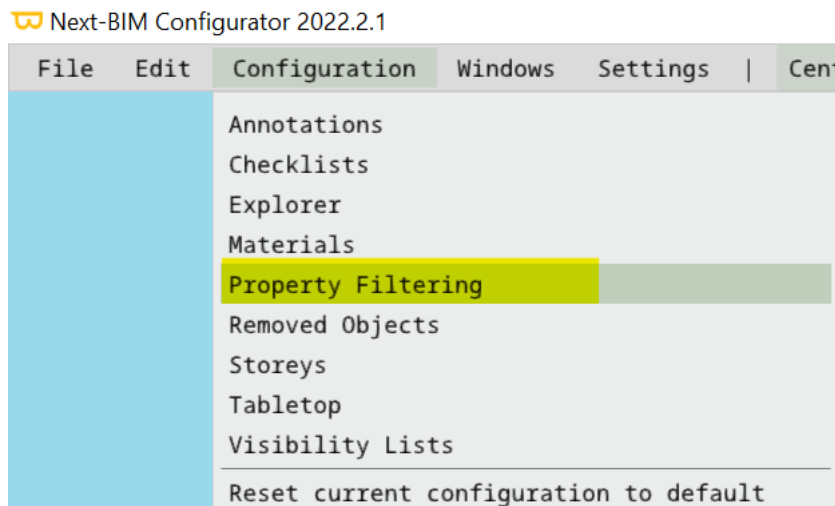
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



B. Configuring Properties: Importing Only Useful Properties (Property Filtering)

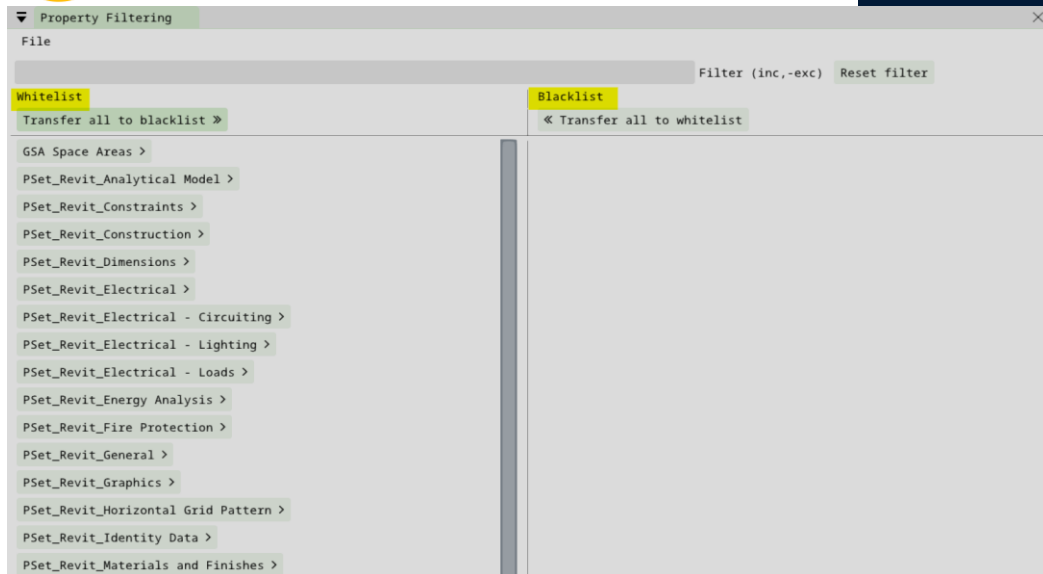
To configure the properties to display in NEXT-BIM Explorer using the information tool, you can follow these steps:

- 1) Go to the top menu "Configuration."
- 2) Select the "Property Filtering" option.



A properties configuration window will open, where you can define the properties to display in NEXT-BIM Explorer.

- To add a property to the list of available properties, click on the property name in the "Whitelist" column. This property will then be available in NEXT-BIM Explorer.
- To exclude a property from the list of available properties, click on the property name in the "Blacklist" column. This property will not be displayed in NEXT-BIM Explorer.



Tips :

- If you want to import more properties than you remove, you can directly click on the property name to move it to the "Blacklist" column.
- If you want to remove more properties than you import, you can click on the "Transfer all to blacklist" button and then click on the property names you want to exclude.

By configuring properties in this way, you will only import the useful properties into NEXT-BIM Explorer. This avoids having an endless list when using the information tool and makes it easier to navigate and analyze the data in your model.

Properties placed in the "Whitelist" column will be available in NEXT-BIM Explorer. Properties placed in the "Blacklist" column will not be available in NEXT-BIM Explorer.



C. Configuration Checklist : Preparing your checklists

IMPORTANT: Using file-based rules in the checklist tool requires adding a rule for each IFC type and selecting the corresponding .IFC types contained in the file. If the .IFC types are not selected, the objects in the file will be considered as a group, and the number of objects in your checklist will not match the expectations.

1. Method 1: From an Excel file (generated by a plugin) (e.g., BIM One for Revit)

Create an Excel file using a plugin like BIM One for Revit. The Excel file should have a column with the title "GUID" and the GUIDs of the objects, a column with the title "object name" and the names of the objects, and a column with the title "checklist next-bim" or "next-bim checklist" containing the default status (e.g., "to be verified").

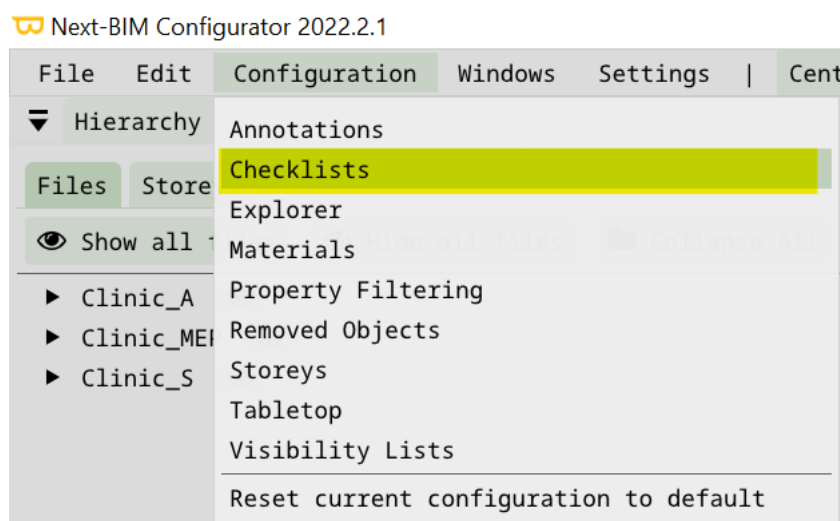
	A	B	C
1	IFC GUID	Object Name	NEXT-BIM Checklist

2. Méthode 2 : Prepare your checklist on NEXT-BIM Configurator

a) Setting up default checklists

Pour configurer vos checklist sur NEXT-BIM Configurator, vous pouvez suivre les étapes suivantes :

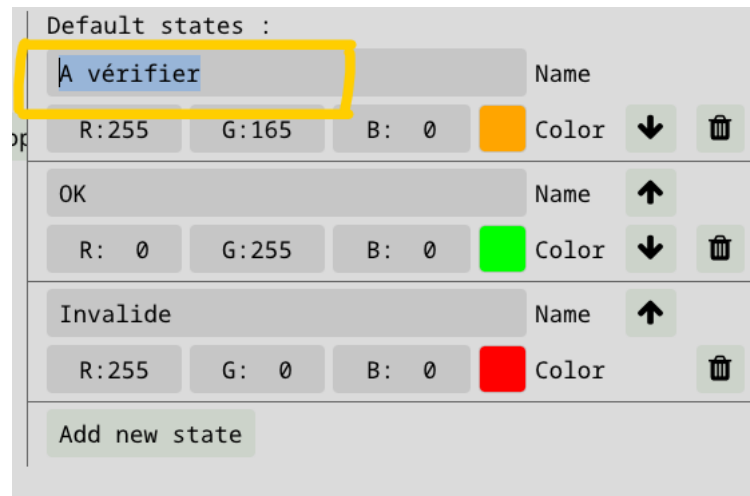
- 1) Go to the "Configuration" menu.
- 2) Select the "Checklist" option.



Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

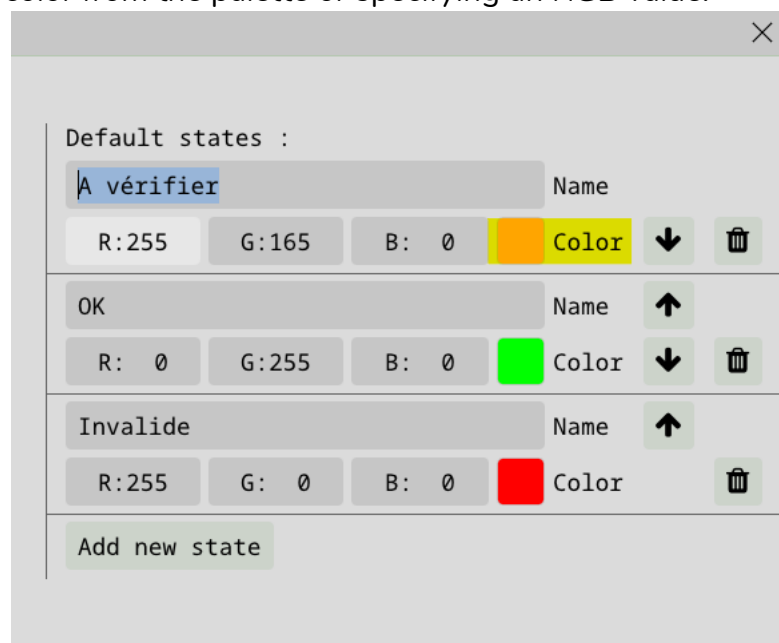


- 3) In the "Default States" section, modify the existing statuses by clicking on the text box of each status and replacing the text with your desired labels.



The first status (e.g., "to be verified") will be the initial state of the objects imported into the checklist. The progression of statuses in NEXT-BIM Explorer follows the top-down order of the statuses in your configuration. When you click on an object to be checked in HoloLens, the object transitions from status #1 ("to be verified") to status #2 ("Ok"). On the second click, the status changes from "Ok" to "Invalid." The states are sequential.

- 4) You can also customize the colors of the statuses by clicking on "Color" and selecting a color from the palette or specifying an RGB value.





5) Use the arrows to modify the order of sequential statuses if needed.

Default states :

Name	Color	Order
A vérifier	R: 255 G: 165 B: 0	1
OK	R: 0 G: 255 B: 0	2
Invalide	R: 255 G: 0 B: 0	3

Add new state

6) To add a new status, click on the "Add new state" button



Default states :						
A vérifier	Name					
R:255	G:165	B: 0	Color	↓	🗑️	
OK	Name			↑		
R: 0	G:255	B: 0	Color	↓	🗑️	
Invalide	Name			↑		
R:255	G: 0	B: 0	Color		🗑️	
Add new state						

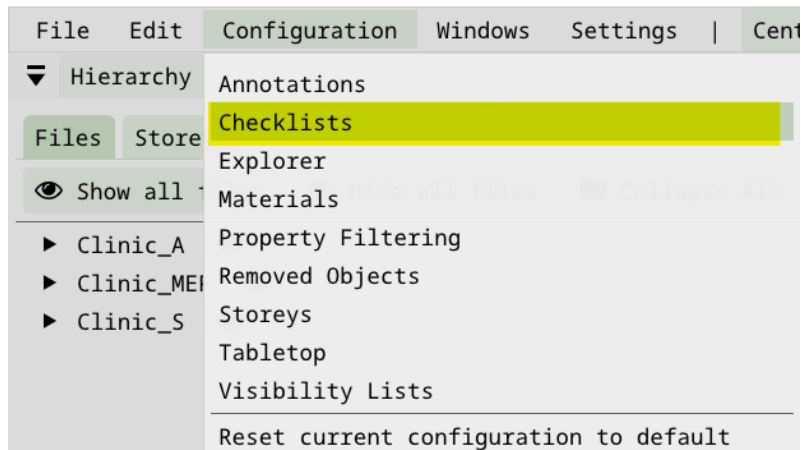
The default statuses will be automatically applied to all checklists unless you modify the status configuration within the editing of your checklist.

b) Creating a new checklist

1. Go to the "Configuration" menu in the software.

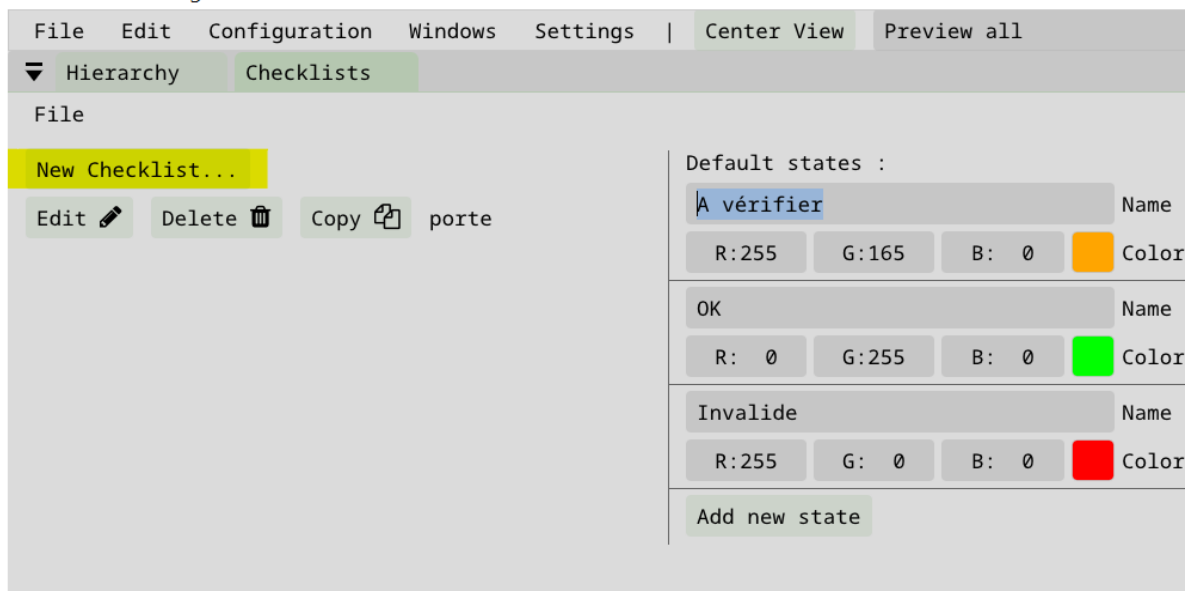


Next-BIM Configurator 2022.2.1



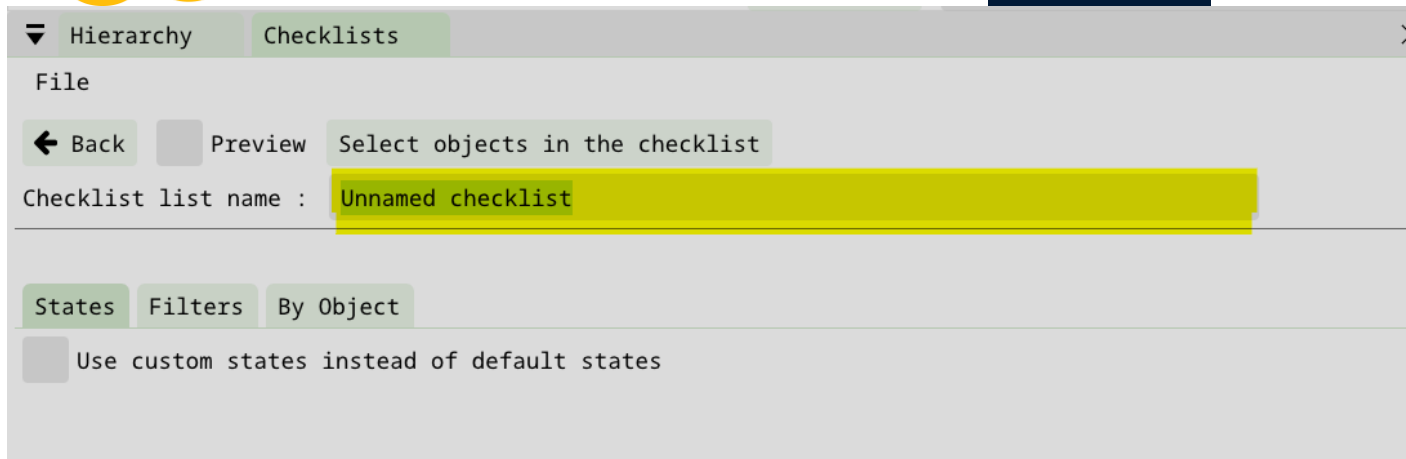
2. Sélectionnez l'option "Checklist". Select the "Checklist" option.
3. Click on "New checklist" to create a new checklist.

Next-BIM Configurator 2022.2.1



4. Rename the checklist according to your needs by clicking on the corresponding text box.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

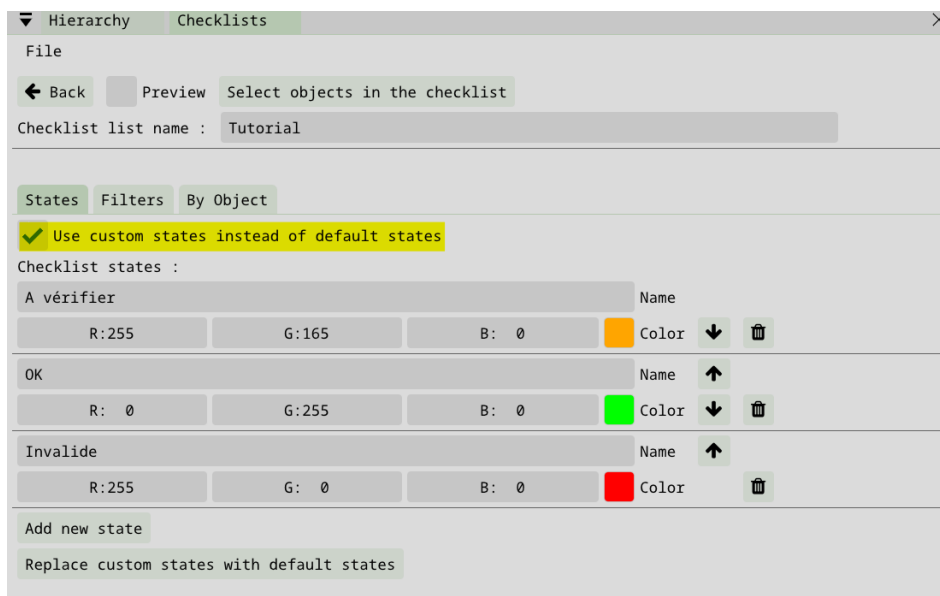


Setting up custom statuses for a checklist

To customize the statuses for the checklist you are creating in NEXT-BIM Explorer, follow these steps:

1. Go to Configuration > Checklist.
2. Select the checklist you want to customize or create a new checklist using the "New checklist" option.
3. In the "States" section, check the box "Use custom states instead of default states." This will allow you to define your own statuses for this specific checklist.
4. Once you have enabled the custom option, you can modify the existing statuses by clicking on the text box of each status and replacing the text with your desired labels.

This feature allows you to apply specific statuses only to this checklist.

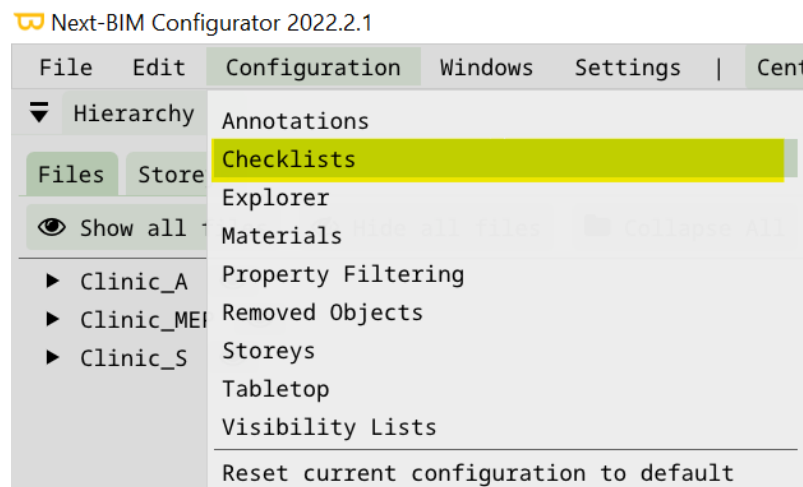




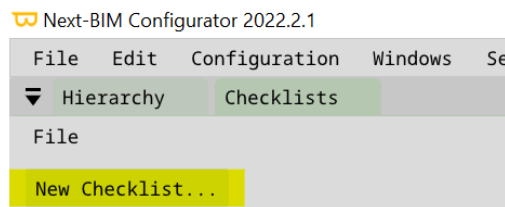
By object - Creating a checklist by object

The "By object" method is suitable when you want to check specific objects by dragging and dropping from the hierarchy or creating a selection using the "Find" tool or the selection function (CTRL+Right-click). Here's how to use this method:

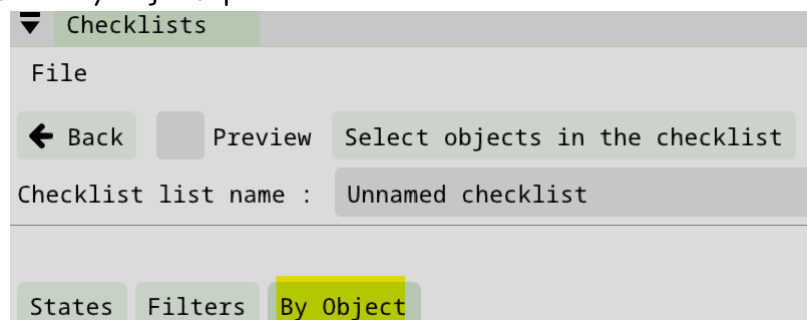
1. In NEXT-BIM Explorer, open the "Checklist" tab.



2. Create a new checklist.



3. Go to the « By object» panel




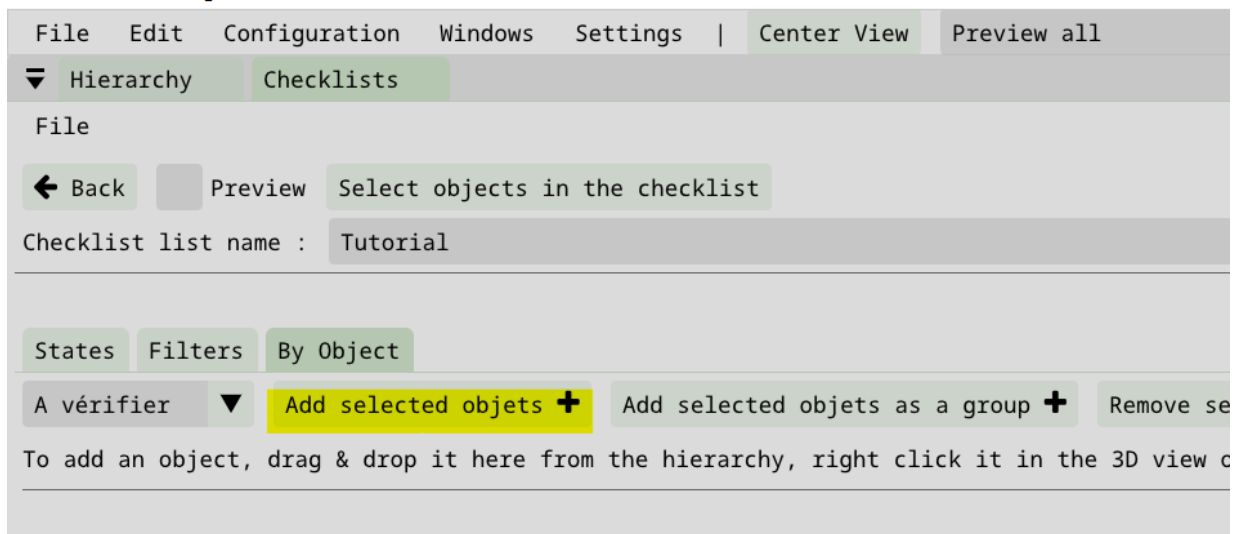
4. To add objects to the checklist, you have two options



- Drag and drop: You can select objects in the virtual model hierarchy and drag them to the checklist area. The objects will be automatically added to the checklist.
- Selection using the "Find" tool or selection function: Use the "Find" tool to search for specific objects or make a selection by holding the CTRL key and right-clicking on the objects. Then, in the "By objects" panel of the Checklist tab, click the "Add selected objects" button. The selected objects will be added to the checklist.

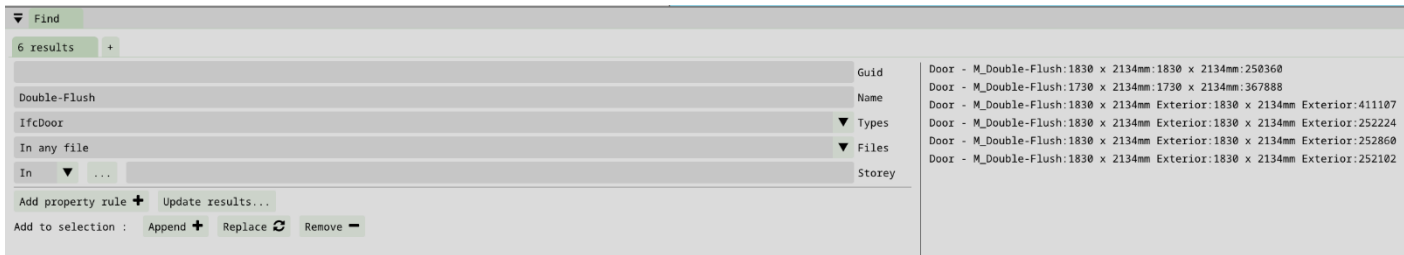
By using this method, you can quickly create a checklist by selecting specific objects, either by dragging and dropping from the hierarchy or by making a selection using the "Find" tool or the selection function. This allows you to easily check the relevant objects for your control process.

 Next-BIM Configurator 2022.2.1



Example :

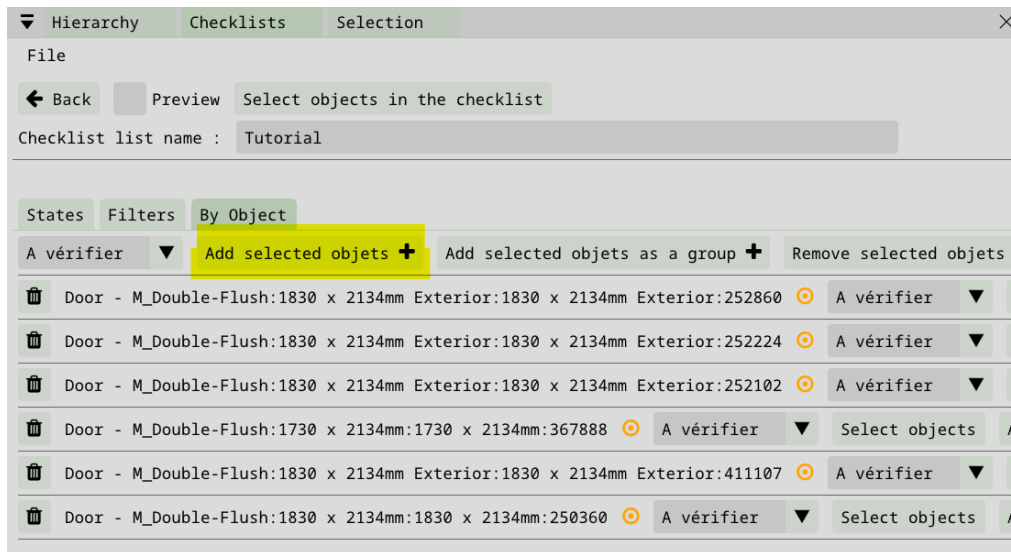
To search for a specific type of door in my "Find" tool.



Add its result to my selection: "Append".

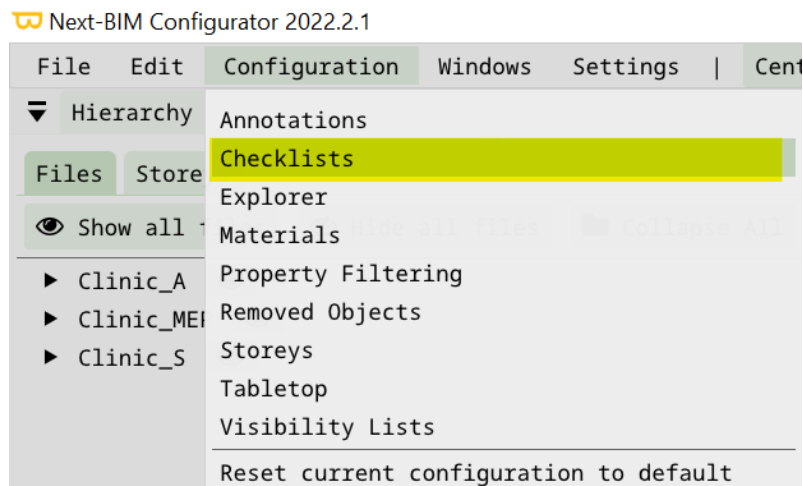


Add my selection to my checklist: Configuration > Checklist > By Object > Add selected objects.



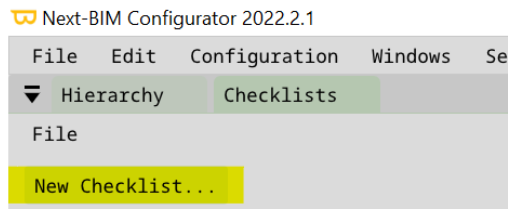
By filters - Creating a checklist via filters

1. Dans le menu "Configuration", sélectionnez l'option "Checklist". In the "Configuration" menu, select the "Checklist" option.

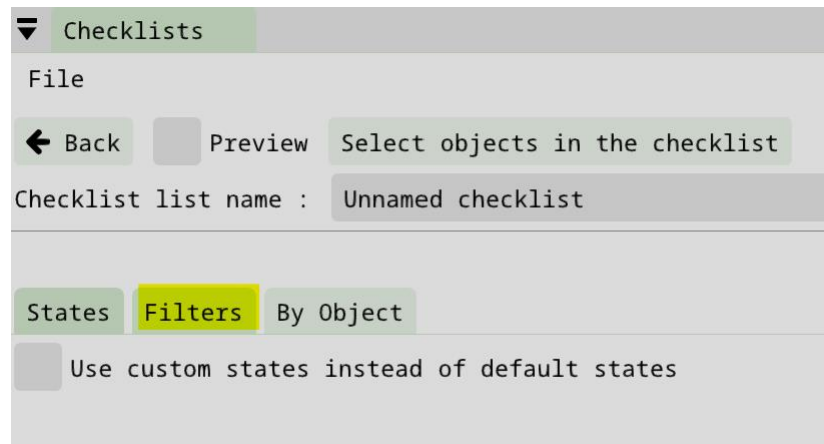


2. Click on "New checklist" to create a new checklist.

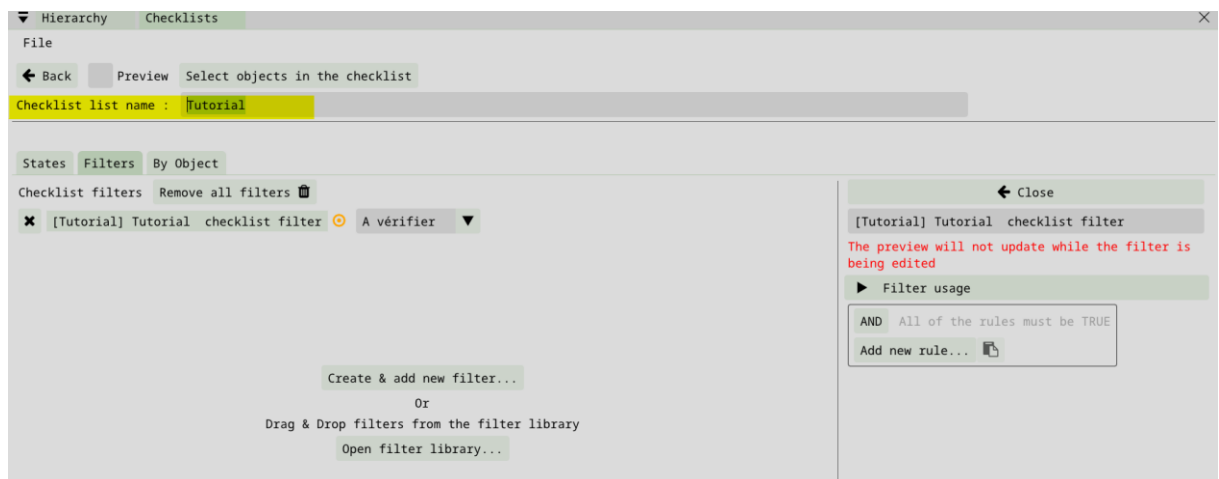
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



3. In the checklist creation window, go to the "By filters" tab.



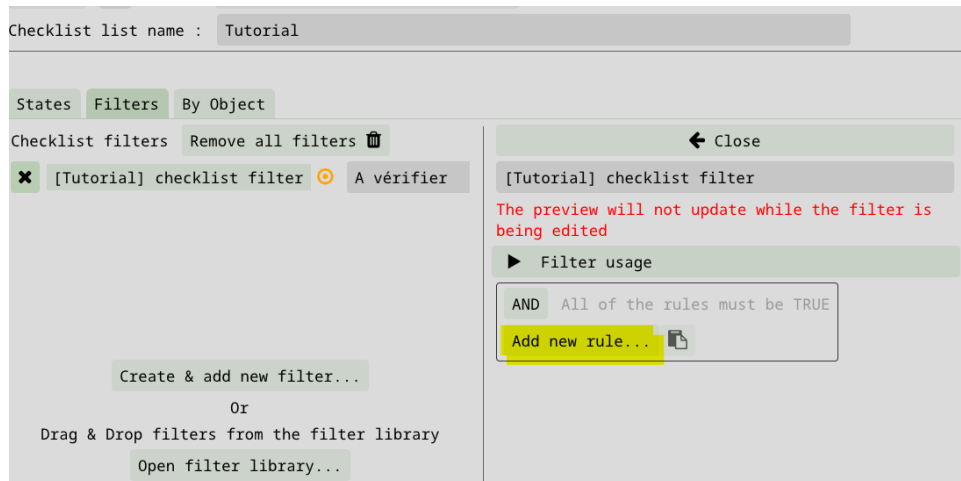
4. Rename your checklist



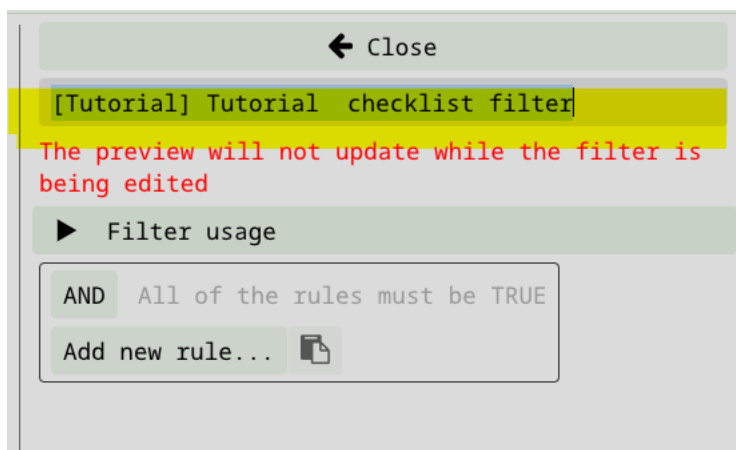
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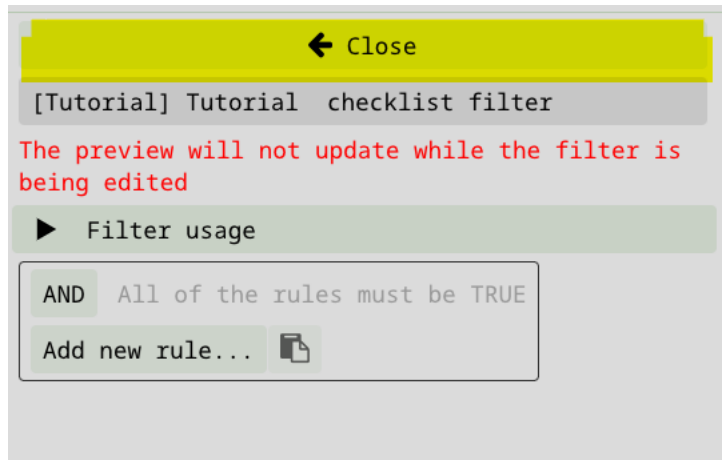
5. Create filters using sorting rules to group the desired objects. Sorting rules can be based on name, type, files, properties, floors, etc.



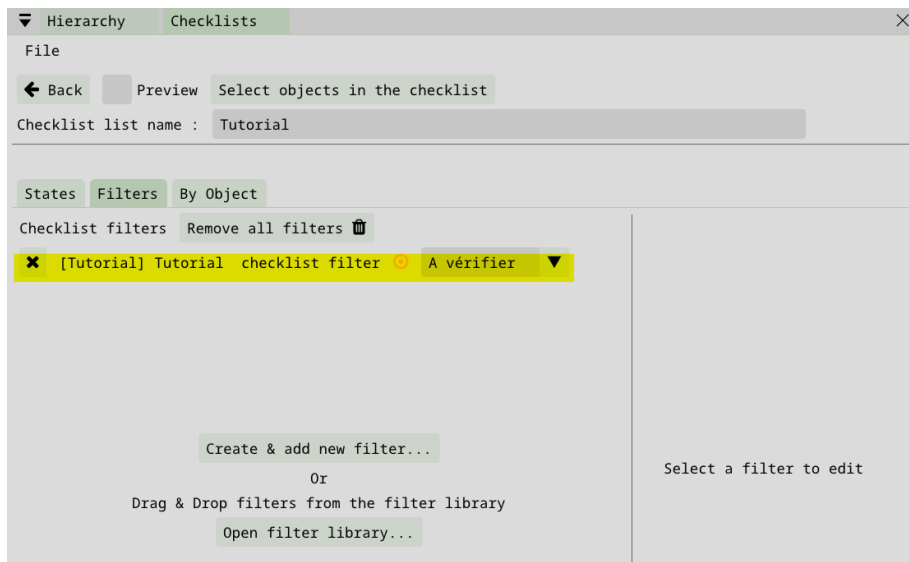
6. Add the necessary rules based on your selection criteria.
7. Rename your filter according to its content.



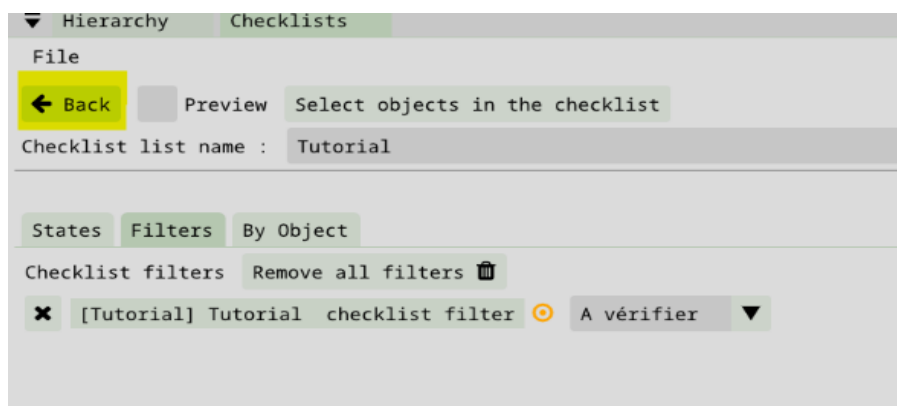
8. Close the filter window to import it into the checklist and preview the checklist using the "Preview" button.



9. The filter is created.

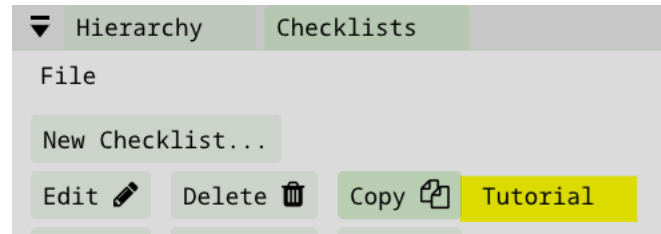


10. Close the checklist





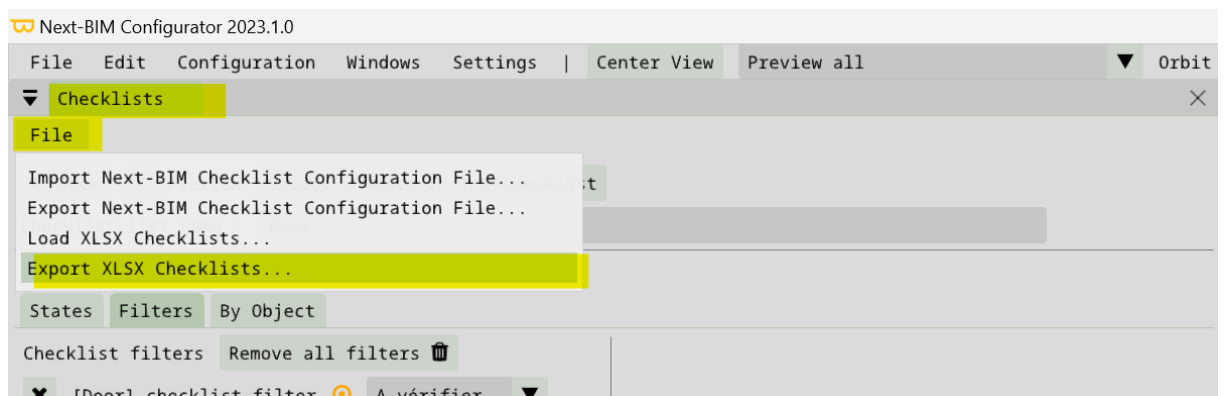
11. Your checklist has been created.



Export a checklist from NEXT-BIM Configurator to an existing .nbim file (without generating a .nbim file).

If you want to export a checklist without generating a .nbim file:

1. Go to Configuration > Checklist > File > Export XLSX Checklist.



2. Save the file to your desired location on your PC.
3. Then, import this file into the file explorer of your HoloLens.
4. In NEXT-BIM Explorer, use the "Import Checklist" button in the checklist tool to select the newly imported checklist.

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Checklist multistep / Liste de contrôle à plusieurs niveaux

Multistep checklist or checklist with multiple levels is used to provide instructions to the user for validating a type of object. Each object needs to fulfill certain criteria to be considered compliant.

Here's how to configure a multistep checklist in NEXT-BIM Explorer:

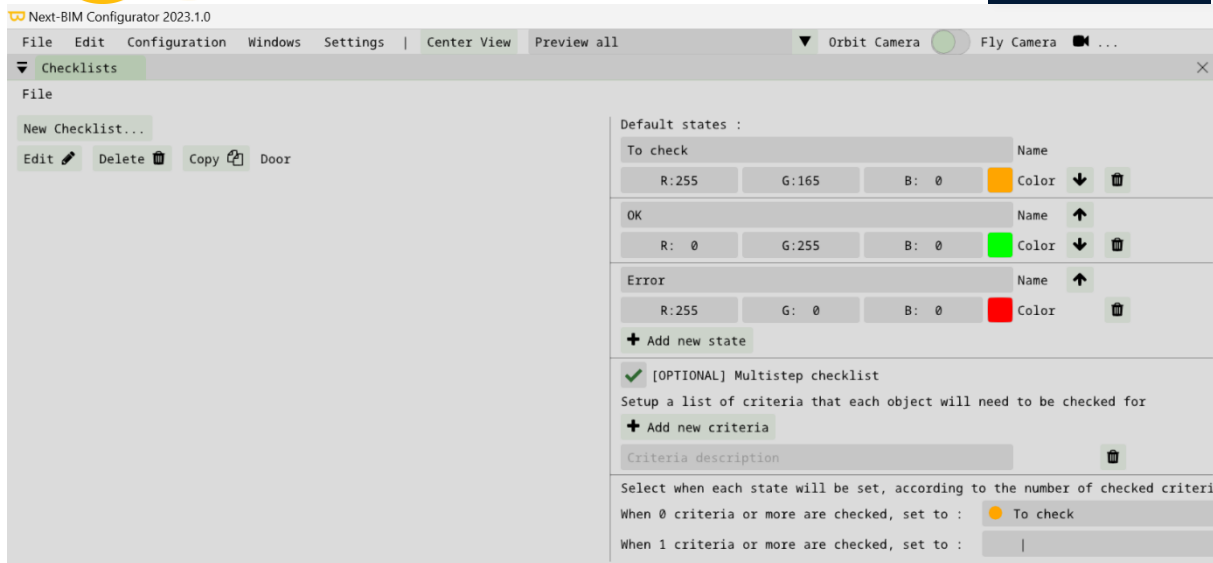
1. In the "Checklist" tab, when creating a new checklist, check the "[OPTIONAL] Multistep checklist" box. This will apply the criteria and steps to each checklist that doesn't have specific criteria.
2. Click the "Add new criteria" button to add the necessary criteria to your checklist. You can add as many criteria as needed.
3. For each criterion, define the conditions that need to be met for the object to be considered compliant. For example, you can define the following criteria: horizontal section, vertical section, and squareness.
4. For each criterion, define the status that will be assigned to the object based on the step. For example, if only one criterion is met, the object can be considered "not correct." If two criteria are met, the object can still be considered "not correct." If all criteria are met, the object can be considered "correct."

By using this method, you can configure a multistep checklist with specific criteria for each step. This will allow the user to easily check if the objects meet the required criteria at each level of the checklist.

Applying criteria (by default) to all checklists

This method allows you to apply the same criteria and steps to each checklist that doesn't have specific criteria.

Check the "[OPTIONAL] Multistep checklist" box.



Add as many criteria as needed using the "Add new criteria" button.

Define the criteria.

Define the status based on the step.

Example: For my checks:

- I want to know if the object needs to be verified, if it is correct or incorrect.
- I want to verify the position, size, and color of the objects.

I would add these 3 states and 3 criteria to my checklist:



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Then, for each step, I would define a status.

If only one criterion is met, my object is not correct.

If two criteria are met, my object is not correct.

If three criteria are met, my object is correct.

```
Select when each state will be set, according to the number of checked criteria
When 0 criteria or more are checked, set to :  To check
When 1 criteria or more are checked, set to : 
When 2 criteria or more are checked, set to :  Not correct
When 3 criteria or more are checked, set to :  Correct
```

This configuration will be applied to all my checklists.

Appliquer des critères spécifiques pour une checklist

Si vous souhaitez appliquer des étapes et des critères spécifiques à une liste de contrôle précise, vous devez créer vos étapes/critères à l'intérieur de la liste de contrôle.

If you want to apply specific steps and criteria to a specific checklist, you need to create your steps/criteria within that checklist.

1. To apply specific criteria to a particular checklist, follow these steps:
2. In the "Checklist" tab, click on "New checklist" to create a new checklist.
3. In the checklist creation window, go to the "States" tab.
4. Check the box "Use custom states instead of default states". This will allow you to define specific statuses for this checklist only.
5. Also, check the "[OPTIONAL] Multistep checklist" box to indicate that you want to use a specific multistep checklist for this checklist.
6. Click the "Add new criteria" button to add the necessary criteria to your checklist.
7. For each added criterion, define the conditions that must be met for the object to be considered compliant with this step of the checklist.



By following these steps, you can create a multistep checklist with specific criteria for each step. This approach allows you to customize the criteria based on the validation requirements for each specific object type or process.

Example: We want to implement a multistep checklist to control my reservations. For my reservations to be valid, the following criteria must be met: horizontal section, vertical section, squareness/angularity.

The screenshot displays the 'Checklists' configuration window in Next-BIM Configurator 2023.1.0. The window title is 'Next-BIM Configurator 2023.1.0' and the menu includes 'File', 'Edit', 'Configuration', 'Windows', 'Settings', 'Center View', and 'Preview all'. The main area is titled 'Checklists' and contains a 'File' tab with a 'Back' button and a 'Preview' button. The checklist name is 'Openings CVC'. Below this, there are tabs for 'States', 'Filters', and 'By Object'. A checkbox 'Use custom states instead of default states' is checked. The 'Checklist states' section contains three rows: 'To check' (R:255, G:165, B:0, yellow color), 'Correct' (R:0, G:255, B:0, green color), and 'Not correct' (R:255, G:0, B:0, red color). Each row has a 'Name' field and a 'Color' dropdown. Below the states, there is a section for '[OPTIONAL] Multistep checklist' with a checkbox checked. It includes a list of criteria: 'Section horizontal', 'Section vertical', and 'Angularity'. At the bottom, there is a section for 'Select when each state will be set, according to the number of checked criteria' with dropdowns for 'When 0 criteria or more are checked, set to : To check', 'When 1 criteria or more are checked, set to : |', 'When 2 criteria or more are checked, set to : Not correct', and 'When 3 criteria or more are checked, set to : Correct'. A 'Replace custom states with default states' checkbox is also present.



D. Visibility list

In NEXT-BIM Explorer, you have the ability to quickly show or hide object lists according to your needs. These visibility lists are useful for facilitating visualization based on specific use cases.

In NEXT-BIM Explorer, you can:

- Show or hide objects based on:
 - Files,
 - IFC types,
 - Individual objects.

It is unnecessary to create custom lists solely based on these rules except if you want to save your configuration as a favorite for quickly navigating between lists.

- Display/Hiding objects from a custom visibility list:
- Accumulate objects from multiple visibility lists:

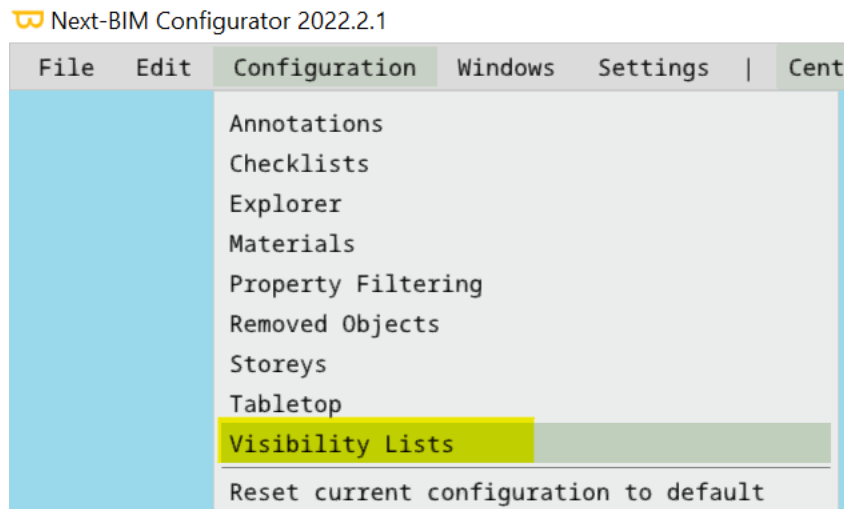
In summary, visibility lists in NEXT-BIM Explorer allow you to manage object visibility quickly and in a customized manner. You can choose to display only objects from a specific list, combine objects from multiple lists, or hide objects according to your needs. Additionally, you can also use the display options based on files, IFC types, and individual objects for better visibility management.

Feel free to configure visibility lists that are useful to you



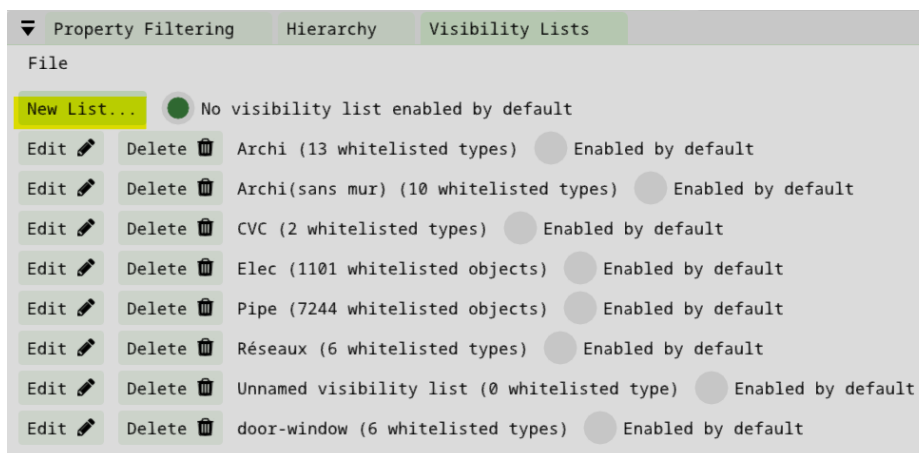
1. Creating a visibility list

Go to the "Configuration" menu and select "Visibility list".



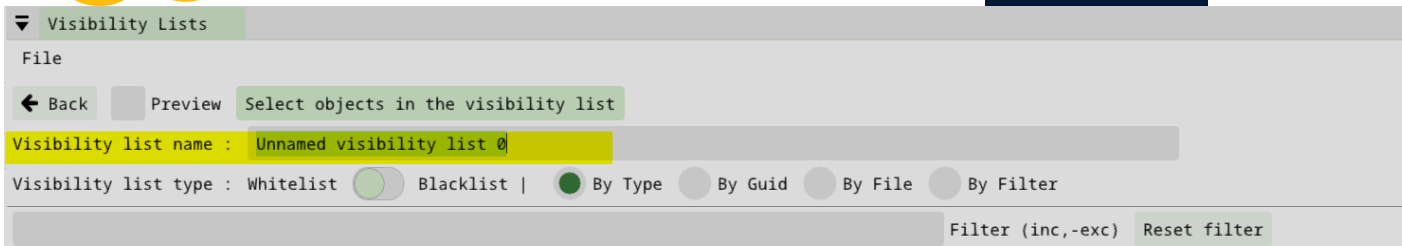
a) Create a new list

1. Click on "New list" to start configuring your visibility list.



2. Rename your visibility list to easily identify it in NEXT-BIM Explorer.

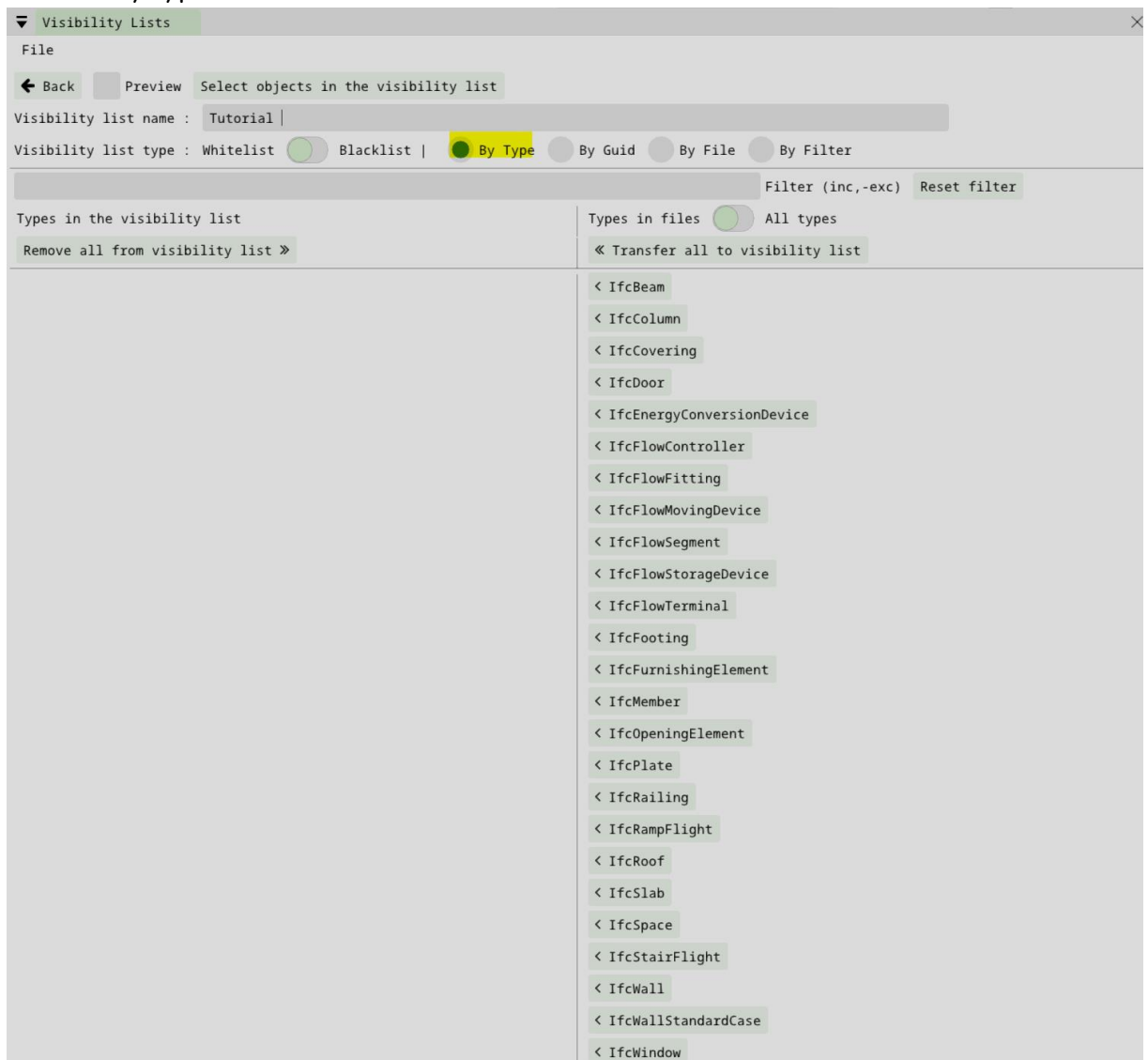
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3. You can now choose from different options to create your visibility list.

b) Create a visibility list by Type (Class ifc)

- Select "By type".



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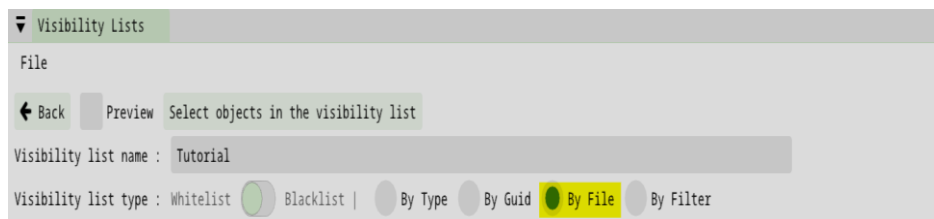


- The left column represents the object types that will be visible in the visibility list.
- The right column represents the object types that will not be visible in the list.
- The "Preview" checkbox allows you to see the list in NEXT-BIM Configurator.

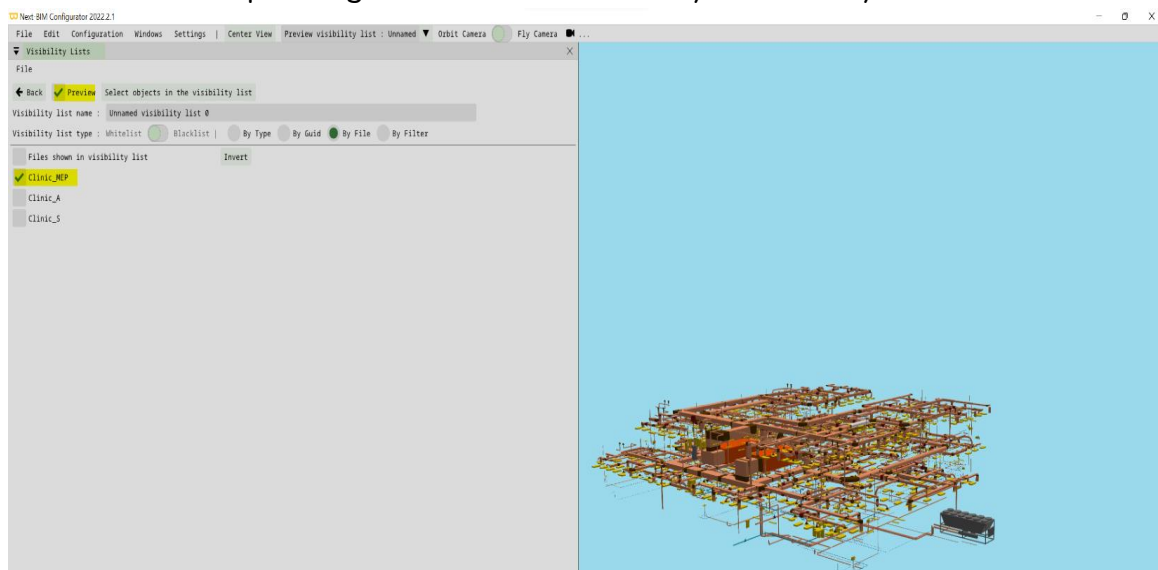


c) Create a visibility list by File

- Select « By file »



- Check the corresponding box to include a file in your visibility list.



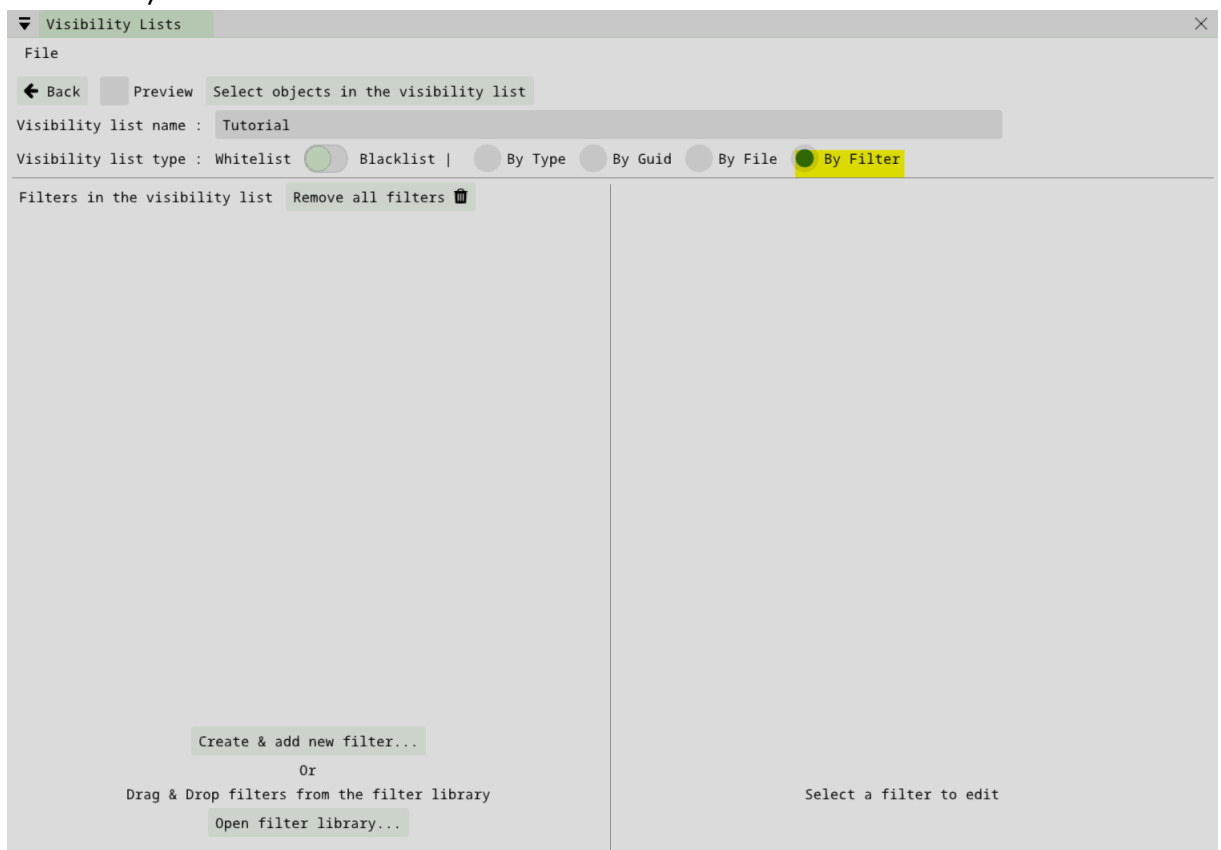


- The "Preview" checkbox allows you to see the list in NEXT-BIM Configurator.



d) Create a visibility list by filter

- Select « by filter »



- Create a new filter by clicking on "Create and add a new filter" or use an existing filter.
- Give a name to the filter.
- Apply rules to the filter to define visibility criteria.

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- Close the filter once the rules are configured.
- The "Preview" checkbox allows you to see the list in NEXT-BIM Configurator.

Example :

The screenshot shows the 'Visibility Lists' configuration window in the NEXT-BIM Configurator. The window has a 'File' menu and a 'Preview' checkbox. The 'Visibility list name' is 'Hot / Cold pipe'. The 'Visibility list type' is 'Whitelist', and the filter is configured 'By Filter'. A list of filters in the visibility list shows one filter: '[Hot / Cold] visibility list filter'. The filter is currently being edited, and a preview panel on the right shows the filter usage: 'OR At least one of the rules must be TRUE'. Two rules are listed: 'Name contains Cold' and 'Name contains Hot'. A 'Close' button is visible in the top right of the preview panel. At the bottom of the main configuration area, there are buttons for 'Create & add new filter...', 'Open filter library...', and 'Drag & Drop filters from the filter library...'.

Etape 1 : Rename your visibility list

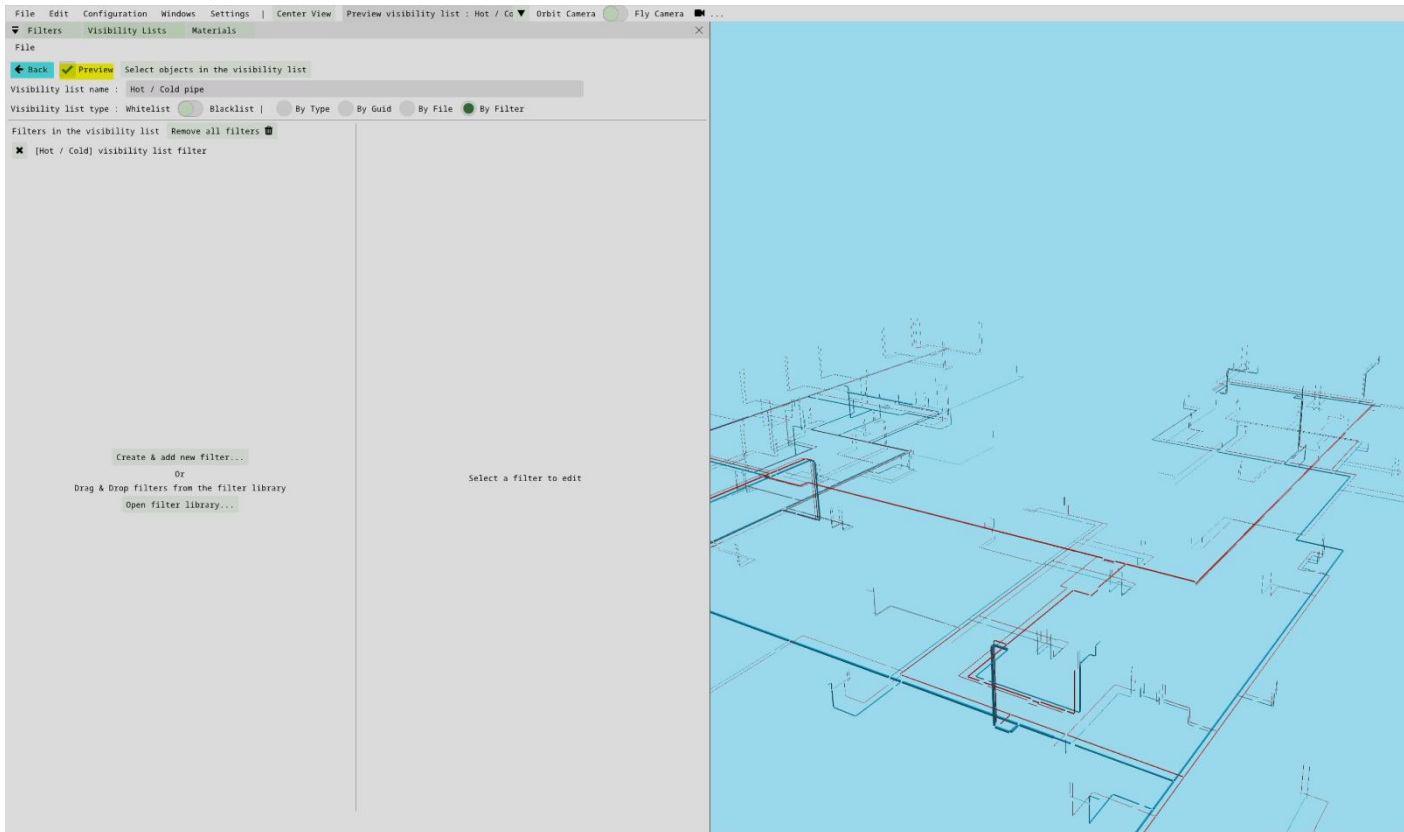
Etape 2 : Create a new filter: « create & add new filter »

Etape 3 : Rename your filter

Etape 4 : Apply specific rules Apply specific rules

Etape 5 : Close the filter

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“Preview” : Display your visibility list in the 3D view.

“Back” : " End of creating your visibility list.

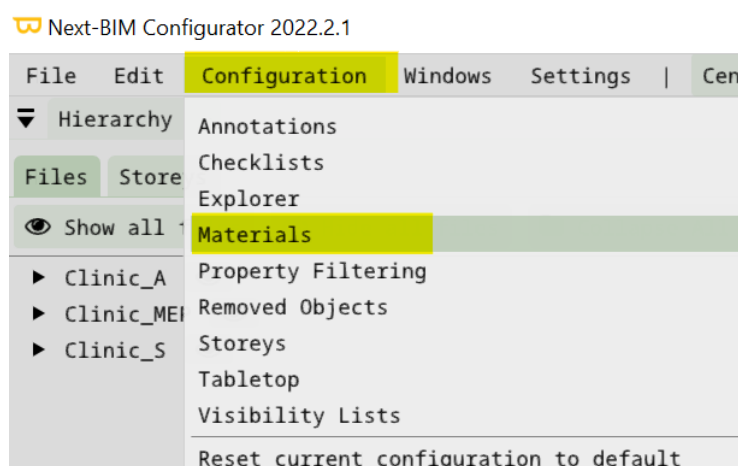


2. Materials (colors)

Configuring object colors is important for improving visualization and understanding in NEXT-BIM Explorer.

To configure object colors, follow these steps:

1. Go to the "Configuration" menu and select "Materials"



2. In the "By object" section, you can individually modify the colors for each object. Click on the object you want to modify the color for, then choose the desired color from the color palette.
3. In the "By IFC types" section, you can modify colors for different IFC object types. Select the object type you want to modify the color for, then choose the color from the color palette.
4. In the "By file" section, you can modify colors for each file. Check the box next to the file you want to modify the colors for, then choose the color from the color palette.

It is recommended to use different shades of colors to enhance the visualization and understanding of objects in NEXT-BIM Explorer. You can also test different colors to determine which ones suit you best.

For better visualization, we recommend the following colors:



FLOOR CODE COLOR: #E1C7C7

WALL CODE COLOR : #F5F778

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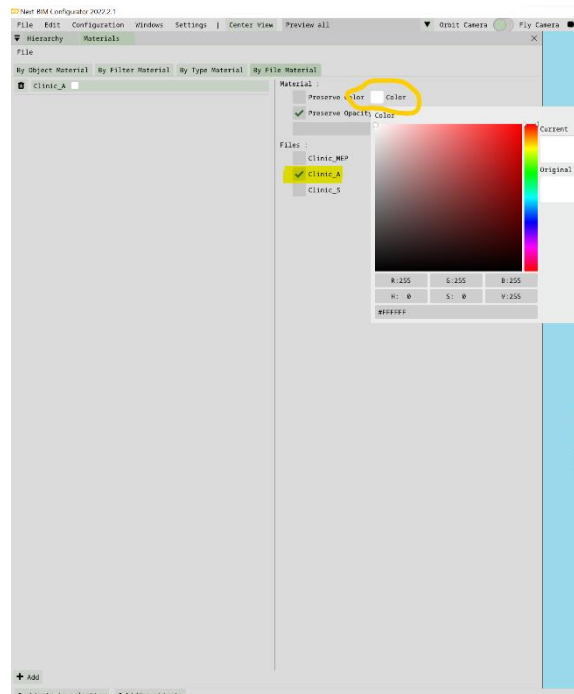


Multiple shades are possible, and feel free to test other colors to find the ones that suit you best.

Note: Color prioritization is applied. The priority rule is as follows: objects > filters > types > files. For example, if you change the color of a single object to red (e.g., a wall), and then change the color of an IFC type (Ifcwall) to blue, the color (red) assigned to the object (the wall) will be preserved and take priority over the color applied to the type (blue). Therefore, the wall will appear in red and the others in blue.

1. Modifying the color

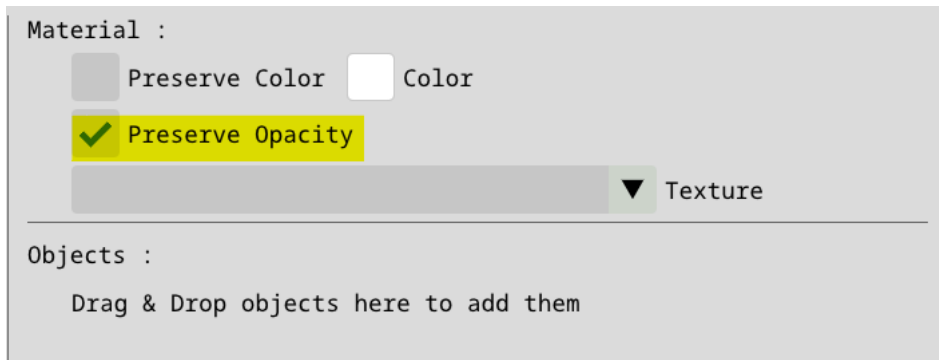
To modify the color, directly select the color tool from the color palette or apply your RGB code.



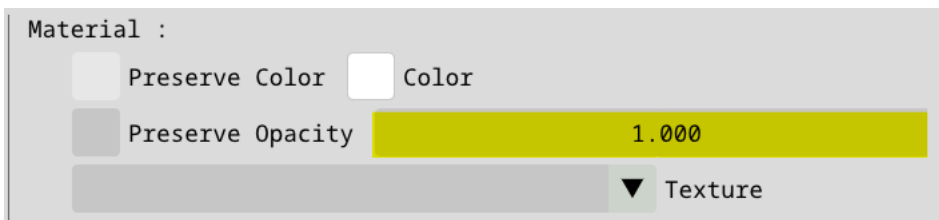


2. Modifying the transparency

The "Preserve Opacity" checkbox keeps the original transparency.



To change the transparency, uncheck the "Preserve opacity" checkbox and adjust the "1.000" slider to the desired value (click and drag the mouse to the left to decrease the value).

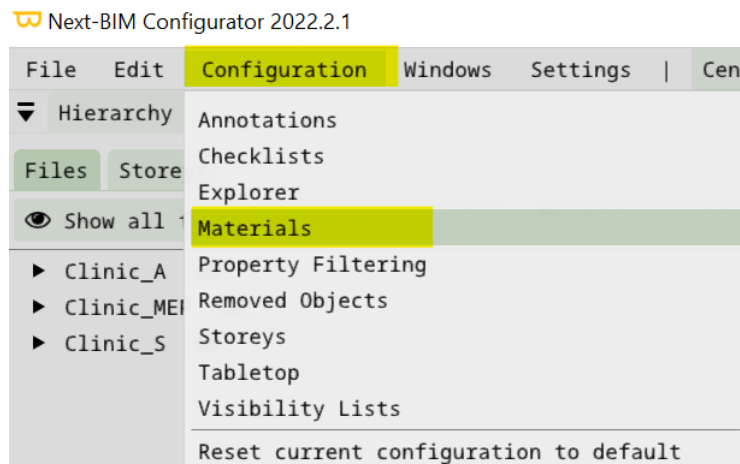




3. Coloring by files

To colorize by files, follow these steps:

1. Go to the "Configuration" menu and select "Materials".

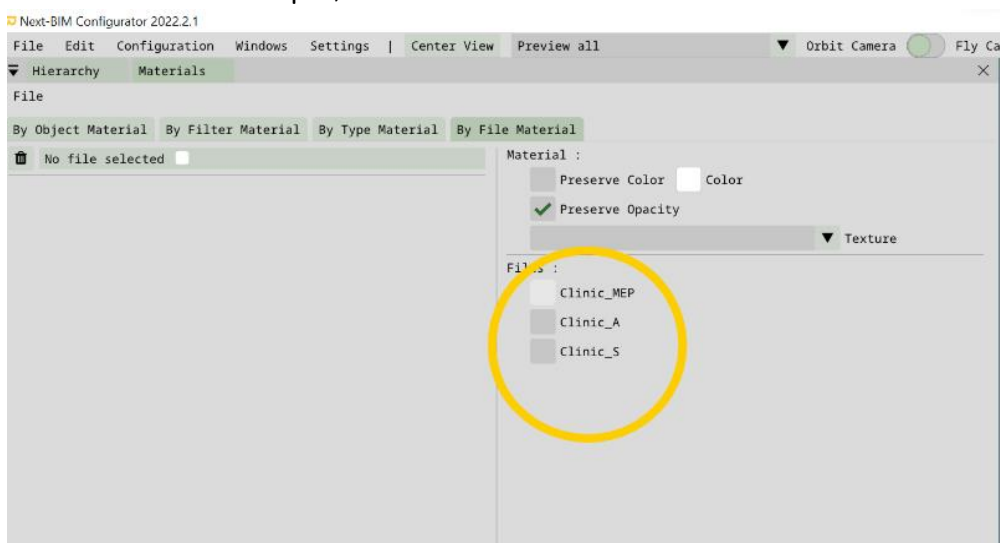




2. In the "By file material" section, click on "Add".



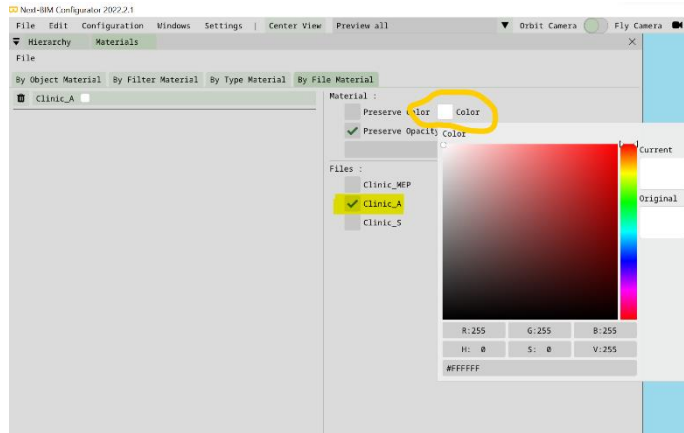
3. Select the file you want to configure by clicking on the corresponding checkbox. For example, select the file "Clinic_A".



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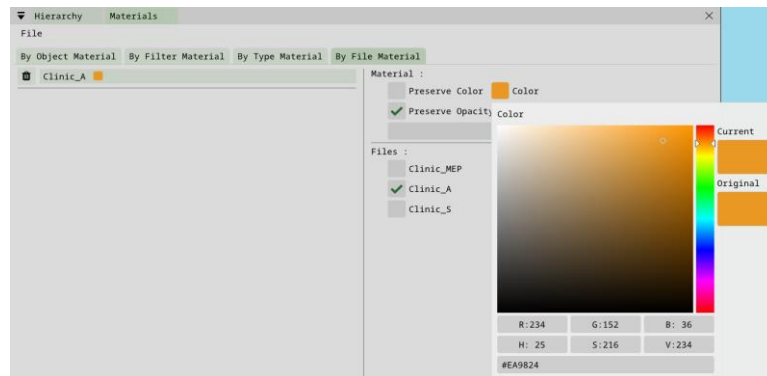


4. To modify the color of the selected file, click on the "Color" box.



5. Choose the desired color using RGB codes or the color palette tool.

6.



7. If you want to apply a color to another file, press the "ADD" button at the bottom and repeat the previous steps to configure the color for the additional file.

4. Coloring by class IFC (by type)

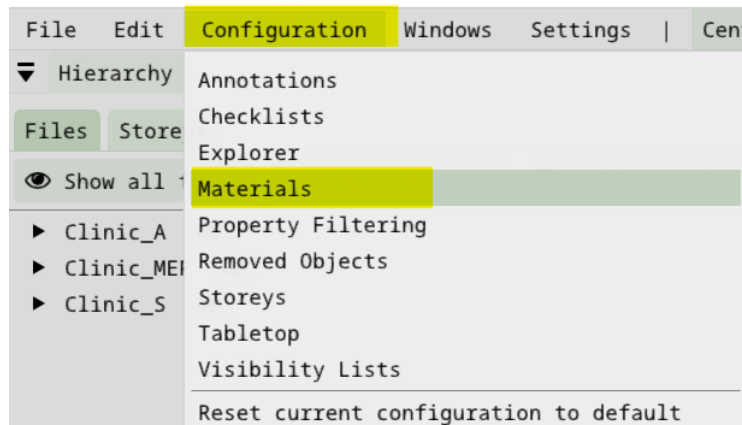
To know : By default two configurations are already available in the IFC types. We have added a texture to the walls and floors to enhance visualization. The color of the walls and floors can still be modified.

To colorize by type (IFC class) in NEXT-BIM Explorer, follow these steps:

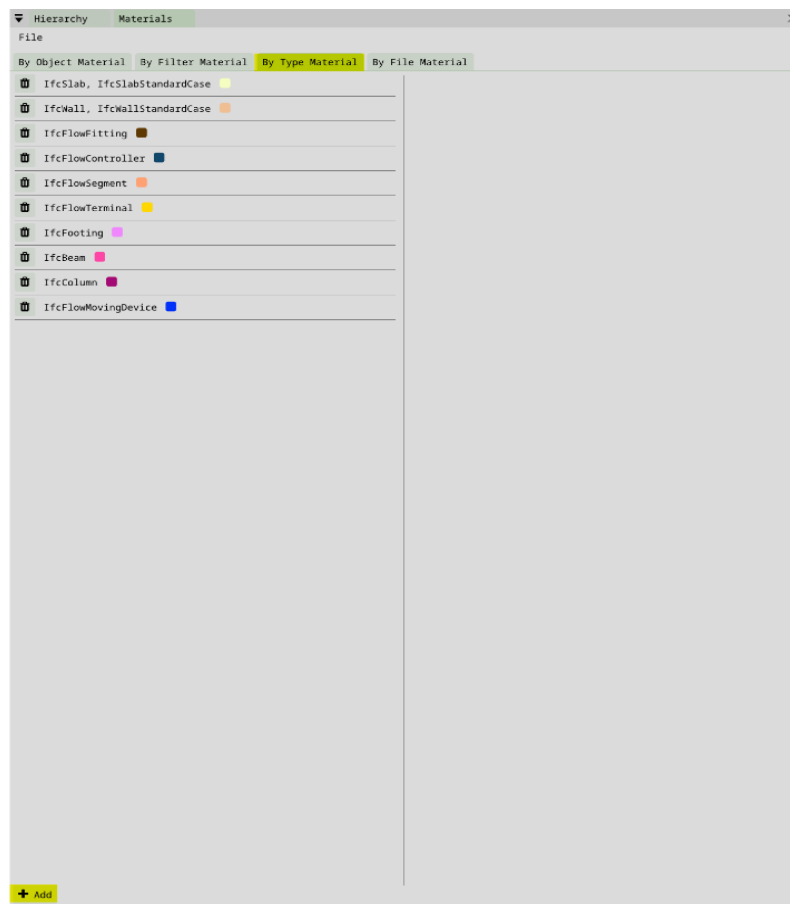
1. Go to the "Configuration" menu and select "Materials".



Next-BIM Configurator 2022.2.1

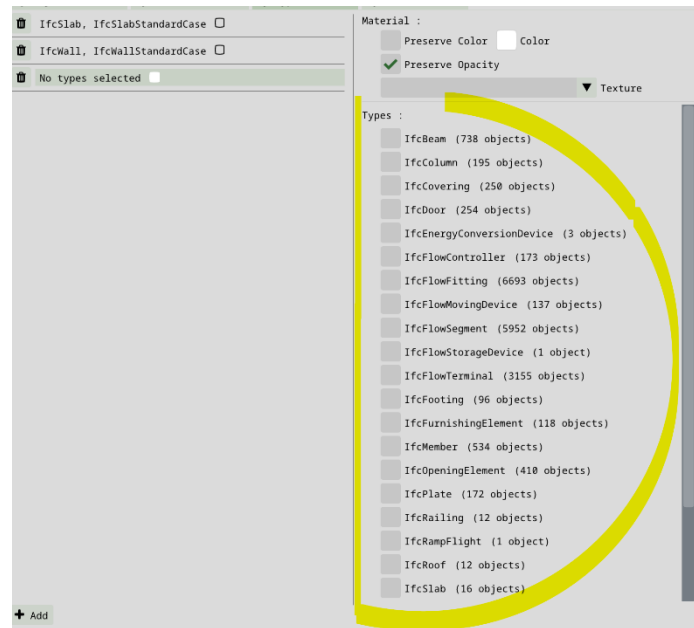


2. In the "By type Material" section, click on "Add".



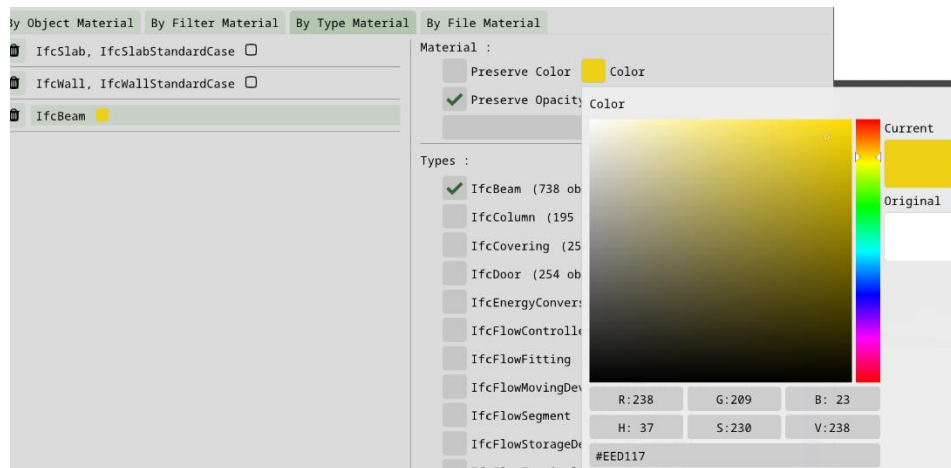
3. Once you have clicked on "Add", the available IFC types will be displayed on the right.

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4. Select one or more IFC types by checking the corresponding checkboxes to apply the same color.

5. Apply a color to the selected types using the color palette tool or by entering RGB codes.



6. If you want to apply a new color to other IFC types, click the "Add" button at the bottom and repeat the previous steps.

By using this feature, you can colorize different IFC object types in NEXT-BIM Explorer, which facilitates the visualization and understanding of the various elements in your model.

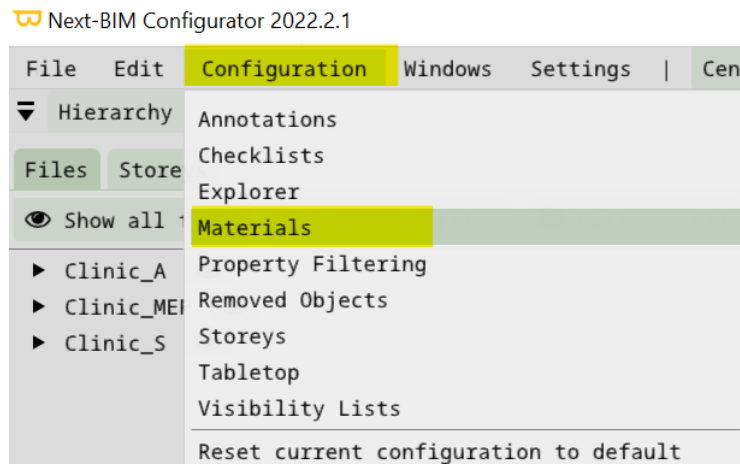
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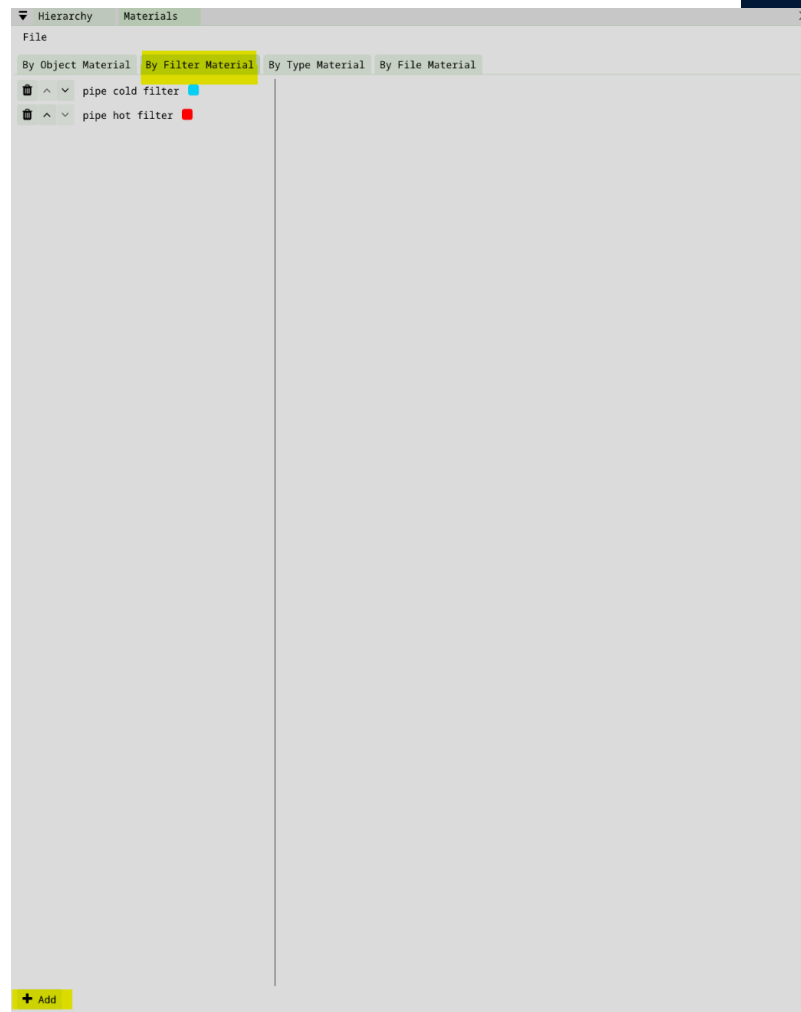
5. Coloring by filters

To colorize by filters, follow these steps:

1. Go to the "Configuration" menu and select "Materials".

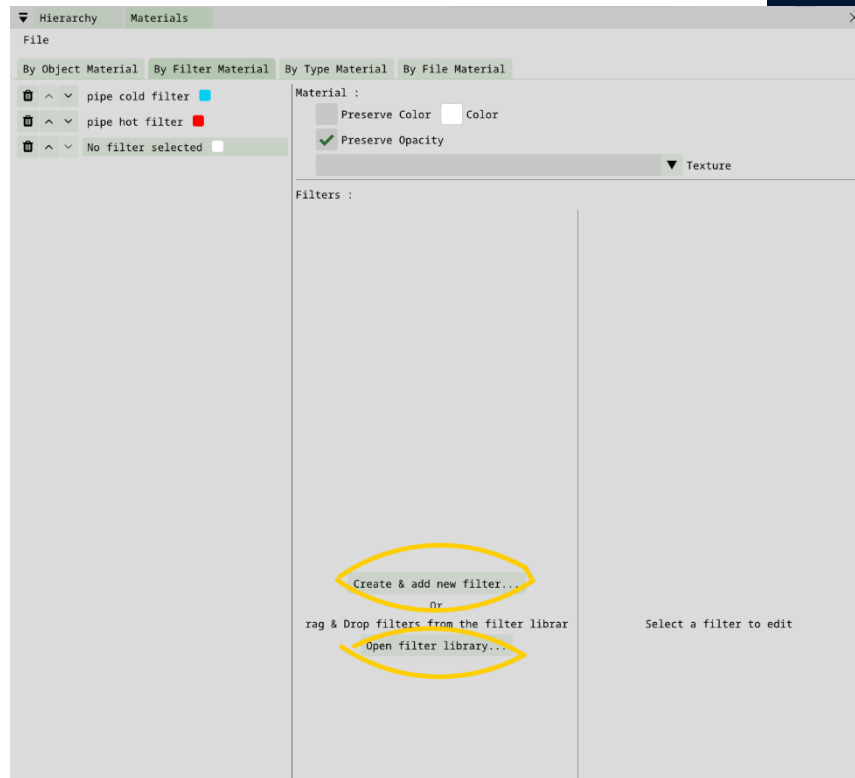


2. In the "By Filters" section, click on "Add".

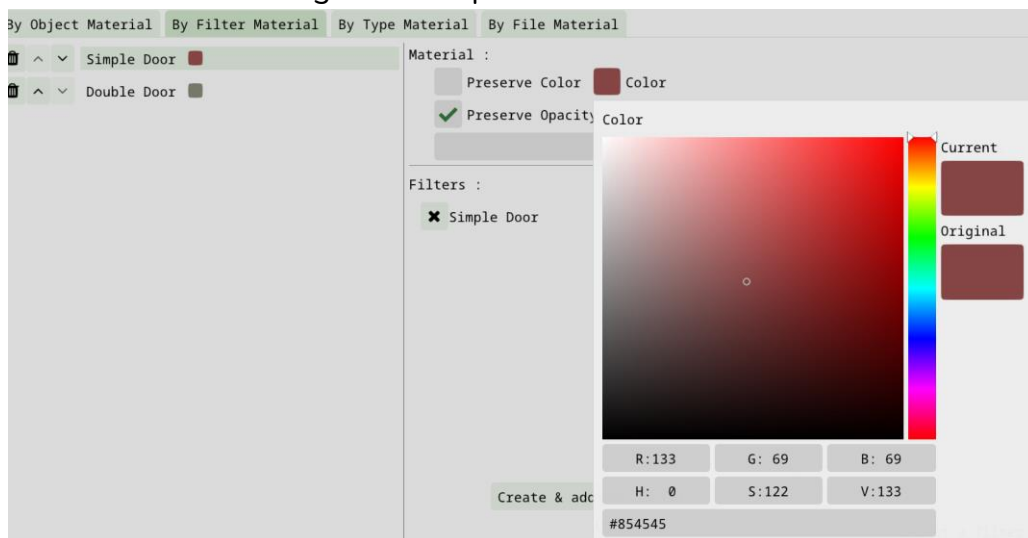


3.

- To apply a new color based on an existing filter from the "Open Filter Library", simply drag and drop the desired filter from the filter window to the "filters" column in the "By filter material" section. You can select the appropriate filter from the available filter library.
- If you want to create a new filter, click on "Create & add new filter". This will allow you to define the filtering rules for your new filter.



4. Once you have selected or created the filter, click on the "Color" box to apply the desired color using the color palette tool or RGB codes.



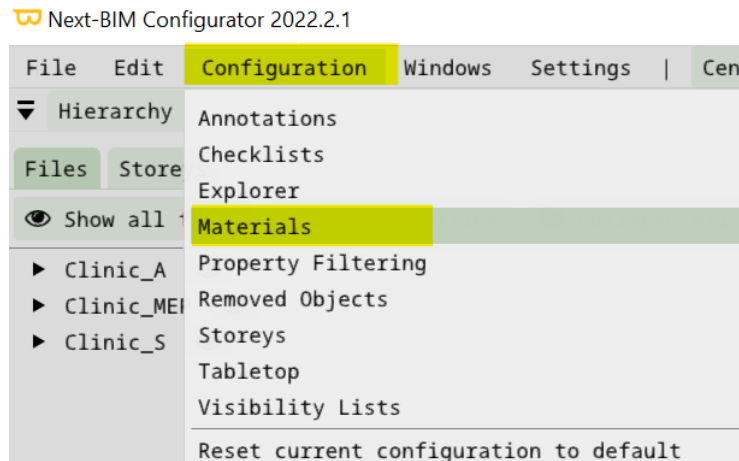
By using this feature, you can apply specific colors to objects that match the selected filters. Filters allow you to define rules for selecting objects based on their properties or characteristics, allowing you to visually identify them in NEXT-BIM Explorer. Make sure to choose distinct and meaningful colors for each filter to facilitate the visualization and understanding of filtered objects in your model.



6. Coloring by object

To colorize by object, follow these steps:

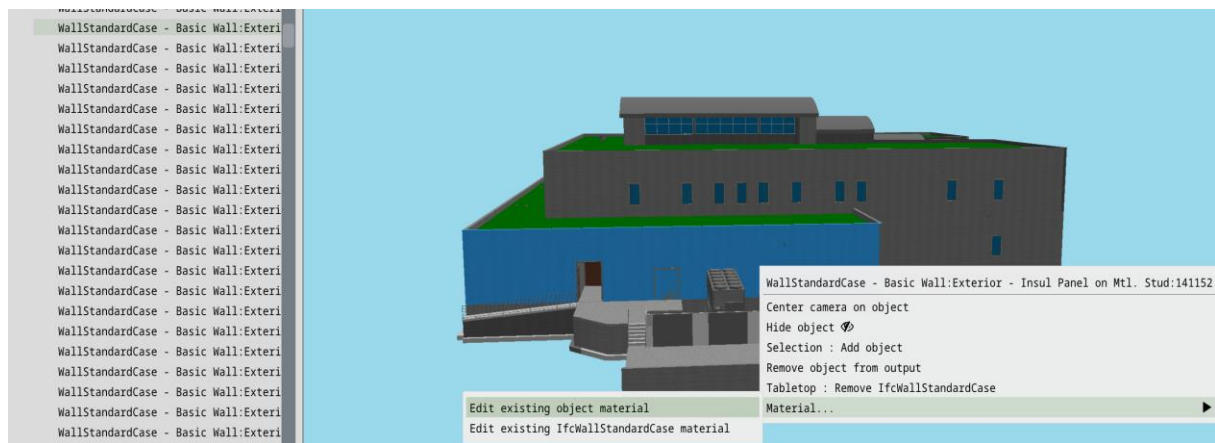
1. Go to the "Configuration" menu and select "Materials".



2. In the "By Object Material" section, click on "Add".

3. You can add objects to your configuration in different ways:

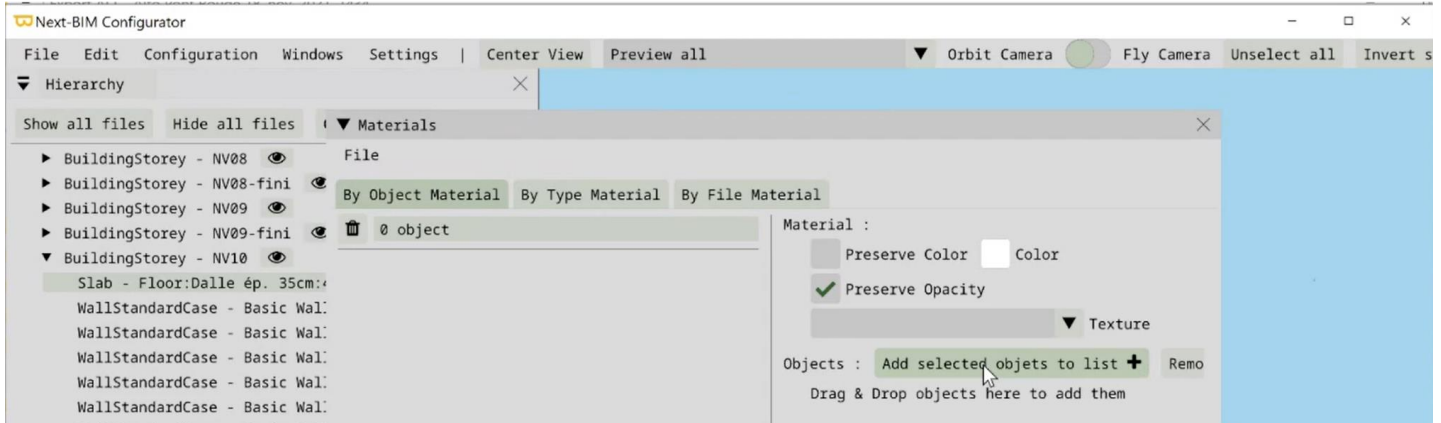
- Drag and drop objects from the hierarchy into the "By Object Material" tab.
- Right-click on the object (from the 3D view or hierarchy) > "Materials" > "Edit Existing Object Material".



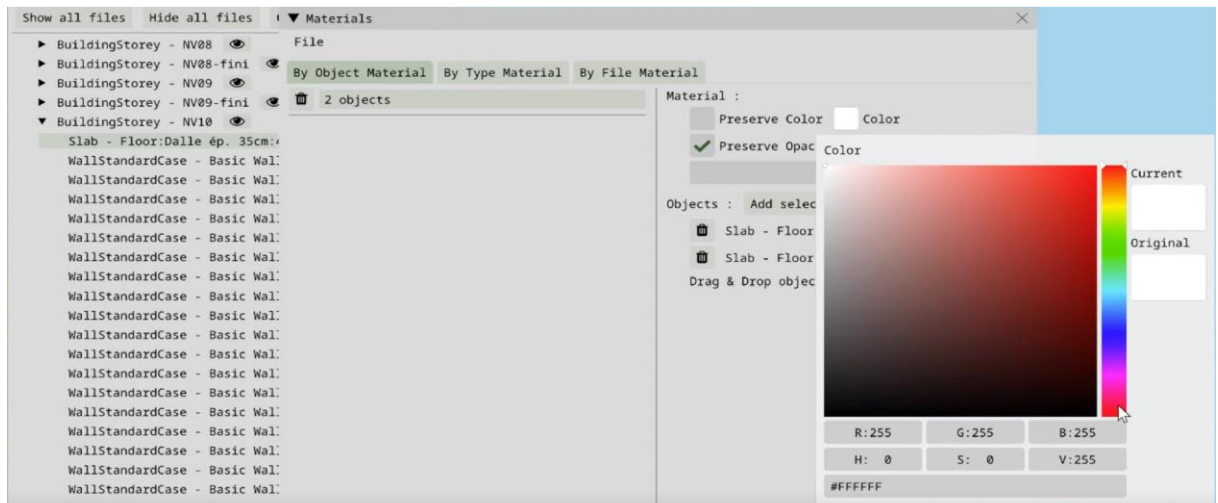
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- You can also configure multiple objects at once by including them in your selection (box selection or CTRL + Left-click), then add the selected objects to your list of objects to be colored.



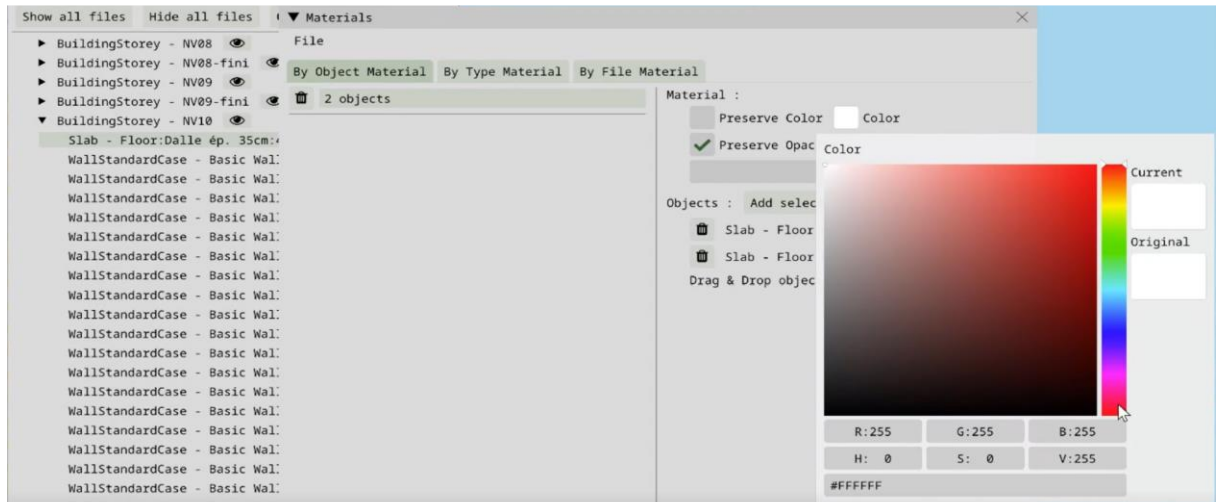
4. Once you have added the objects, you can modify their color using the color palette tool or by entering the corresponding RGB codes.



5. If you want to add other object lists, click on "Add".
6. By using this feature, you can apply specific colors to individual objects or groups of objects in your model. This allows you to customize the visual representation of objects according to your needs.



7. Make sure to choose distinct colors for each object or group of objects to facilitate visual distinction when exploring your model.
8. Once you have added the objects, you can modify their color using the color palette tool or by entering the corresponding RGB codes.



9. If you want to add other object lists, click on "Add".

By using this feature, you can apply specific colors to individual objects or groups of objects in your model. This allows you to customize the visual representation of objects according to your needs.

Make sure to choose distinct colors for each object or group of objects to facilitate visual distinction when exploring your model.



E. Tabletop

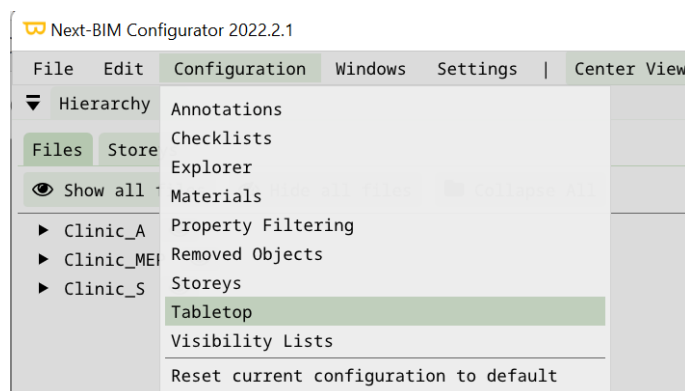
The Tabletop mode is a scaled-down model in the headset that allows you to position yourself inside the building at a 1:1 scale. It appears when opening the .nbim file.

In the Tabletop model, we cannot load all elements due to the performance limitations of the HoloLens. Therefore, it is possible to load up to 1 million triangles. A default configuration has been implemented with a priority rule based on types.

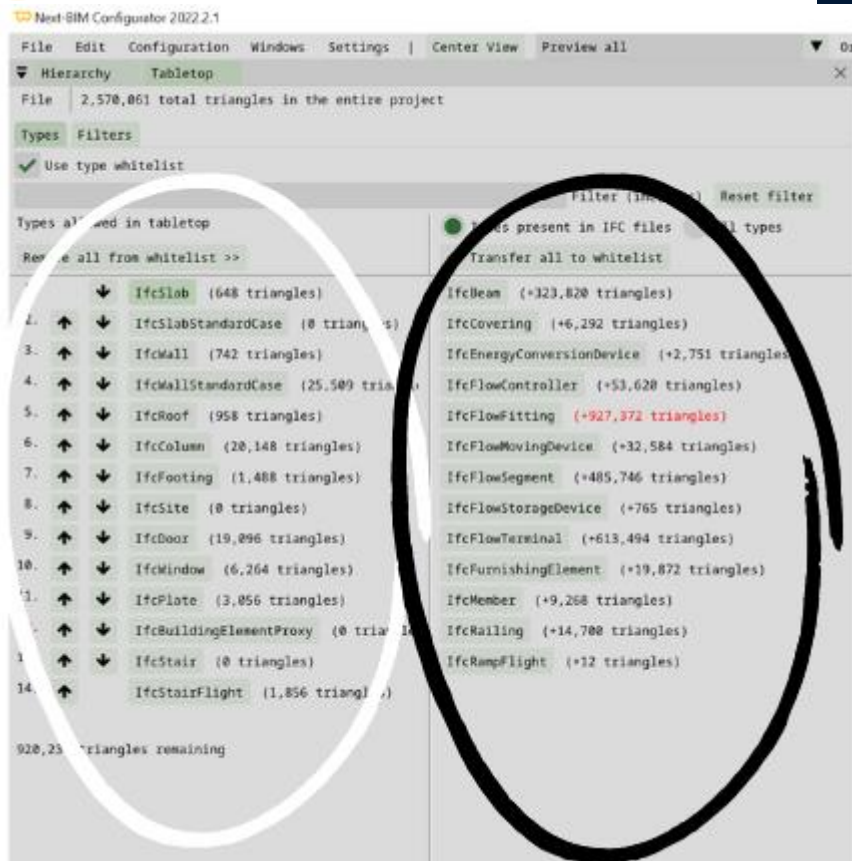
Note: Floors are required to immerse yourself in the model, while walls provide reference points.

1. Configuring the Tabletop Mode by Type

1. Go to the "Configuration" tab and select "Tabletop"

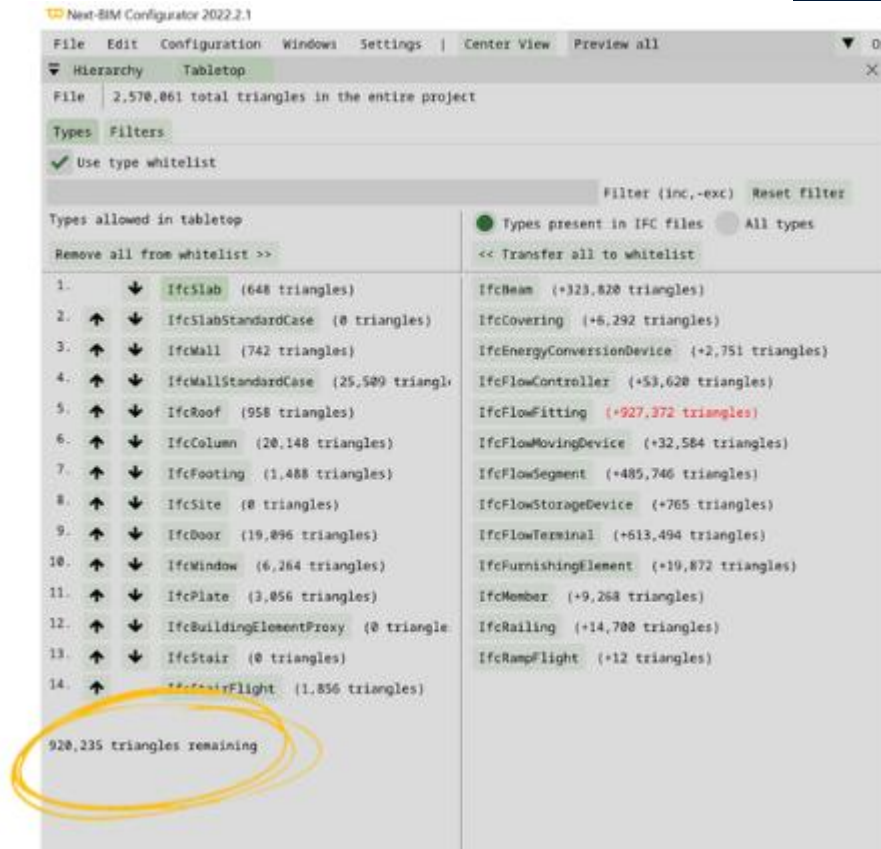


2. The "Whitelist" displays the types of IFC objects that will be visualized in Tabletop mode, while the "Blacklist" contains the types of IFC objects that will not be imported.

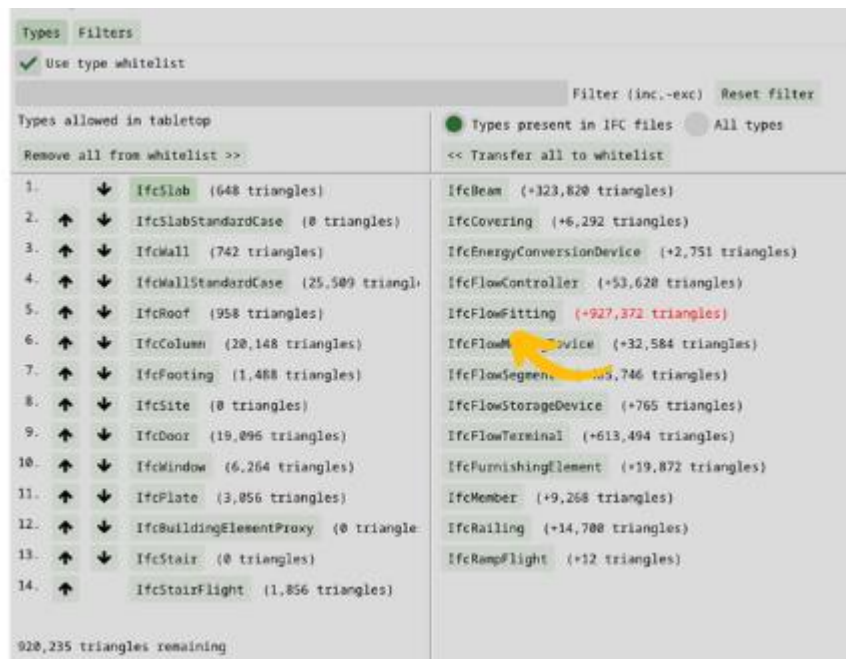


3. To change the status of an IFC type, click the corresponding button for that type.
4. The number of remaining triangles that can be imported into the whitelist is displayed at the bottom left of the window. For example, if it shows 920,235 triangles, it means you can still import objects up to that number of triangles.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



5. Some IFC object types, such as "Ifcflowfitting," may exceed the remaining triangle limit displayed at the bottom left as "920,235 triangles remaining." In this case, the type is shown in red.



Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



6. If you still want to display the "Ifcflowfitting" type in Tabletop mode, you can do so by moving it to the whitelist and then moving it up in the list using the arrows until it is no longer displayed in red. However, this will no longer display the IFC types below IfcFlowFitting.

Next-BIM Configurator 2022.2.1

File Edit Configuration Windows Settings | Center View Preview all

Hierarchy Tabletop

File | 2,570,061 total triangles in the entire project

Types Filters

Use type whitelist

Filter (inc, -exc) Reset filter

Types allowed in tabletop

Remove all from whitelist >>

Types present in IFC files All types

<< Transfer all to whitelist

1. ↓	IfcSlab (648 triangles)	IfcBeam (+323,820 triangles)
2. ↑ ↓	IfcSlabStandardCase (0 triangles)	IfcCovering (+6,292 triangles)
3. ↑ ↓	IfcWall (742 triangles)	IfcEnergyConversionDevice (+2,751 triangles)
4. ↑ ↓	IfcWallStandardCase (25,509 triangles)	IfcFlowController (+53,620 triangles)
5. ↑ ↓	IfcRoof (958 triangles)	IfcFlowMovingDevice (+32,584 triangles)
6. ↑ ↓	IfcColumn (20,148 triangles)	IfcFlowSegment (+485,746 triangles)
7. ↑ ↓	IfcFooting (1,488 triangles)	IfcFlowStorageDevice (+765 triangles)
8. ↑ ↓	IfcSite (0 triangles)	IfcFlowTerminal (+613,494 triangles)
9. ↑ ↓	IfcDoor (19,096 triangles)	IfcFurnishingElement (+19,872 triangles)
10. ↑ ↓	IfcFlowFitting (927,372 triangles)	IfcMember (+9,268 triangles)
Everything below this point will be ignored, the HoloLens device cannot display that many triangles at once. You have 4,039 triangles remaining		IfcRailing (+14,700 triangles)
11. ↑ ↓	IfcWindow (6,264 triangles)	IfcRampFlight (+12 triangles)
12. ↑ ↓	IfcPlate (3,056 triangles)	
13. ↑ ↓	IfcBuildingElementProxy (0 triangles)	
14. ↑ ↓	IfcStair (0 triangles)	
15. ↑	IfcStairFlight (1,856 triangles)	

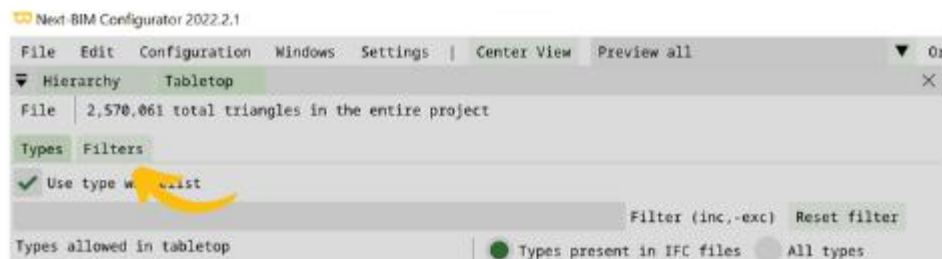
- 7.
8. An alert message will appear indicating that everything below IfcFlowFitting will be ignored in Tabletop mode.
9. If you still have remaining triangles, you can move up other IFC types displayed in black. If you want to display only a portion of objects from a type in red, you can check the configuration by filters.



2. Tabletop filters

The configuration by filters will be used most often for Navisworks projects exceeding one million triangles. Additionally, the purpose of filters for IFC configurations is to display in the HoloLens objects of an IFC type that exceed or surpass the one-million-triangle limit. This means being able to sort objects by a rule other than IFC types to display a portion of the objects from that IFC type.

1. Go to the "Configuration" menu, select "Tabletop," and choose the "Filters" tab.



2. Click on "Create & add new filter" to create a new filter specifically for Tabletop mode, or "Open filter library" to drag and drop an existing filter.



3. Once you have created or added your filter, it will be automatically included in your Tabletop mode.



Filters take priority over the classification of object types (IFC classes). This means that if you have configured a filter for a specific object type, that filter will be applied even if it is present in the whitelist or blacklist.

Filters allow you to manage and control the IFC object types that will be displayed in Tabletop mode on the HoloLens more precisely, exceeding the imposed triangle limit.

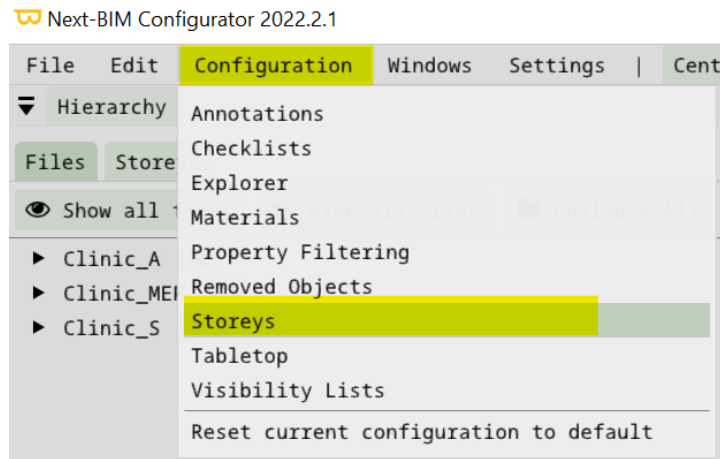
F. Configuration Storey (floors)

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



To reorganize your storey hierarchy in NEXT-BIM Configurator, follow these steps:

1. Go to the "Configuration" menu and select "Storeys".



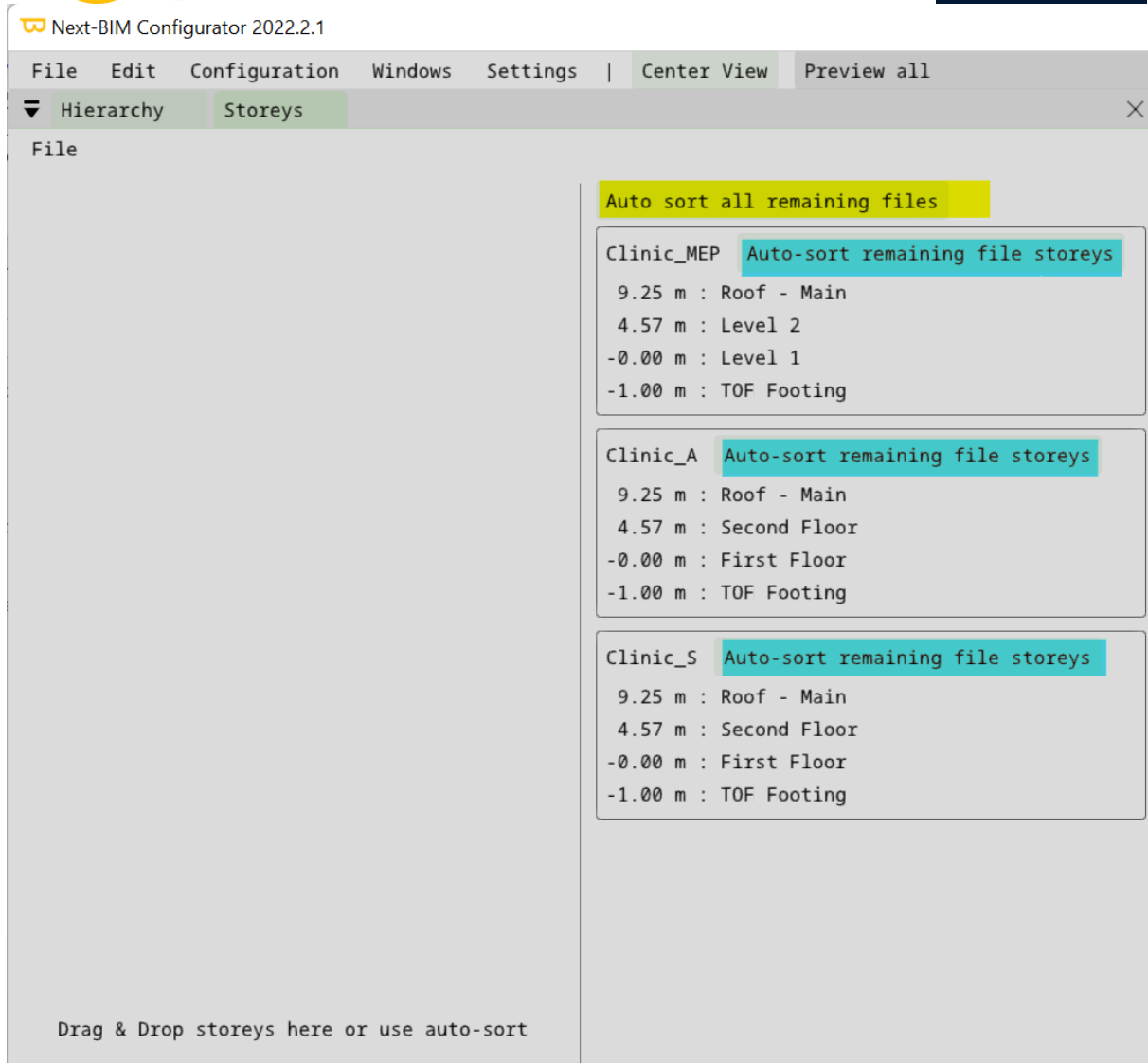
2. In the "Storeys" window, you have two options for reorganizing your files: a

a) To reorganize all files:

- Click on the "Auto sort all remaining files storeys" button.
- This feature allows you to create a storey hierarchy based on the information contained in the .ifc files.

b) To reorganize a specific file:

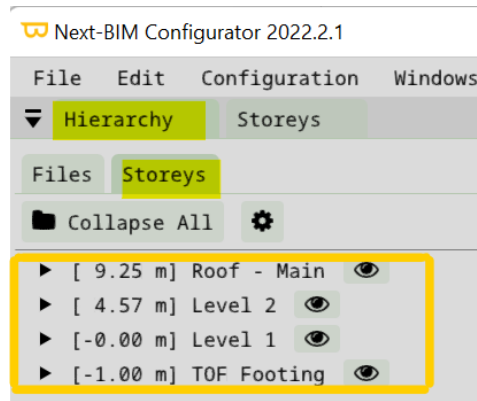
- Select the file from the displayed list of files.
- Click on the "Auto sort remaining file storeys" button.
- This feature allows you to reorganize only the selected file into a storey hierarchy.



Reorganize all files with one click

Reorganize only a specific file

3. Once the organization is done, your new storey hierarchy will be available.
- Go to the "Windows" menu and select "Hierarchy", then choose the "Storey" option.

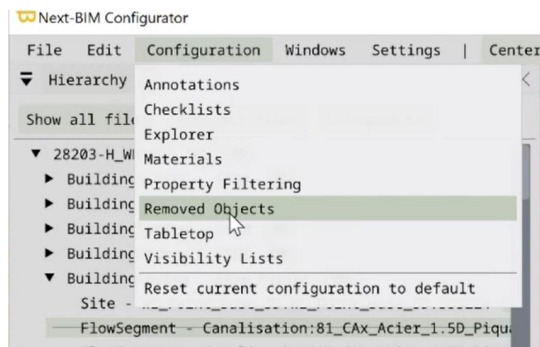


- The "Storey" window will display your reorganized hierarchy, showing the different storeys of your building.
- You can use this storey hierarchy for specific storey-based selections or for better organization and visualization of your files. ([voir ici](#)).

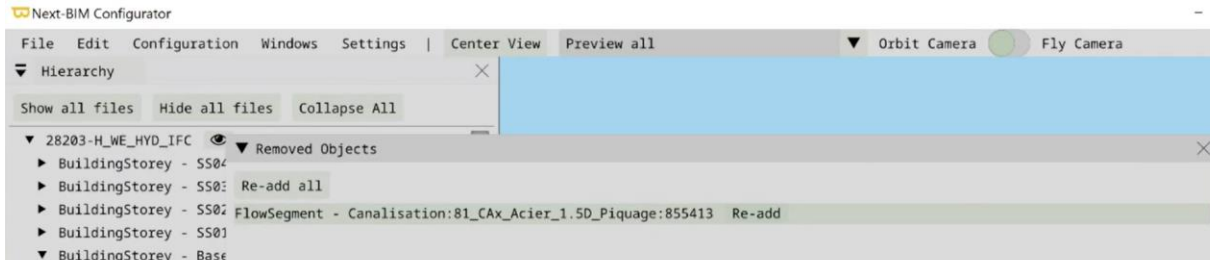


G. Removed Objects

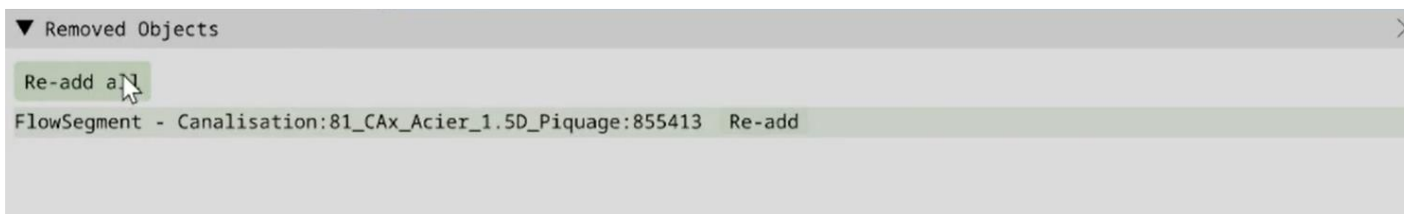
To view all the elements that will not be loaded and modify this list, go to Configuration > Removed Objects.



The list of all the elements that will not be loaded will appear (these are the objects where you have applied “Removed object / types / storey / files from output”)



To restore a removed object to the final file, click on > “Re-add” on the desired object, or click on “Re-add all” to restore multiple objects with a single click



If you have removed distant objects to avoid hindering the conversion of your .nbim file, these objects should be listed here.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

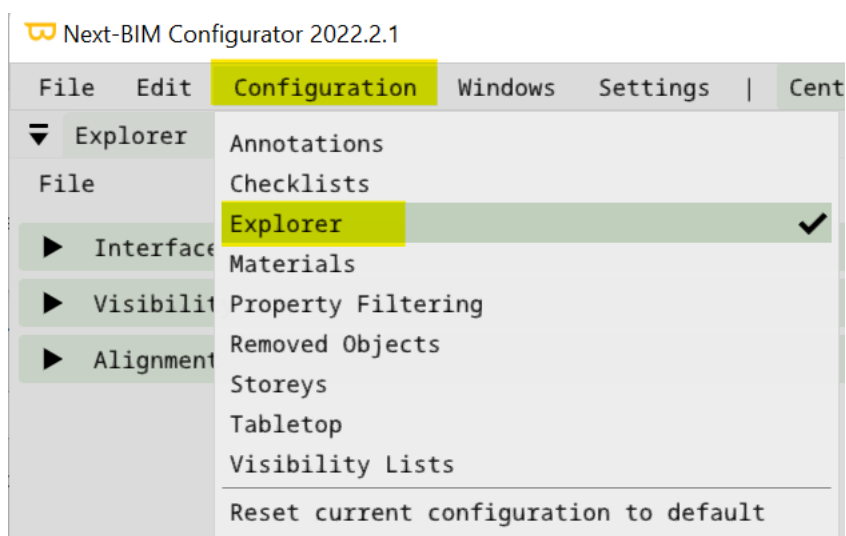


H. Configuration of NEXT-BIM Explorer Settings

To configure the default settings of NEXT-BIM Explorer, follow these steps:

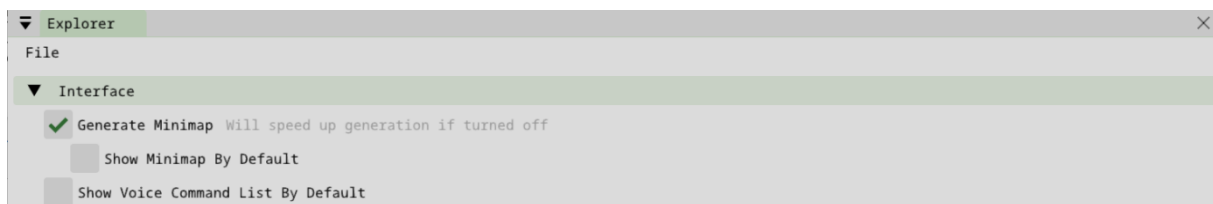
1. Open the "Configuration" menu from the top menu bar.
2. Select the "Explorer" tab from the dropdown menu.

You will now see the different configuration settings available. In this section, you can enable or disable various settings according to your preferences.



You will now see the different configuration settings available. In this section, you can enable or disable various settings according to your preferences.

1. Configure your interface :



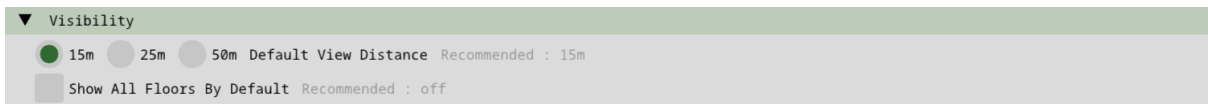
- « Generate Minimap » : Enable this option to generate a minimap in NEXT-BIM Explorer. The minimap provides an overview of the model and facilitates navigation. If this feature is disabled, the generation of the .nbim file will be faster, but the minimap will not be available.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



- "Show Minimap By Default": Check this box if you want to display the minimap by default when entering immersive mode.
- « Show Voice Command List By Default” : Check this box to display the contextual voice command list in your holographic view.

2. Configure your visibility



- "15m / 25m / 50m Default view distance": Select the default viewing distance in NEXT-BIM Explorer. We recommend choosing a distance of 15m, especially if your files are large and complex.
- "Show All Floors By Default": Enable this function if you want to visualize across multiple floors. Recommended setting is "Off."

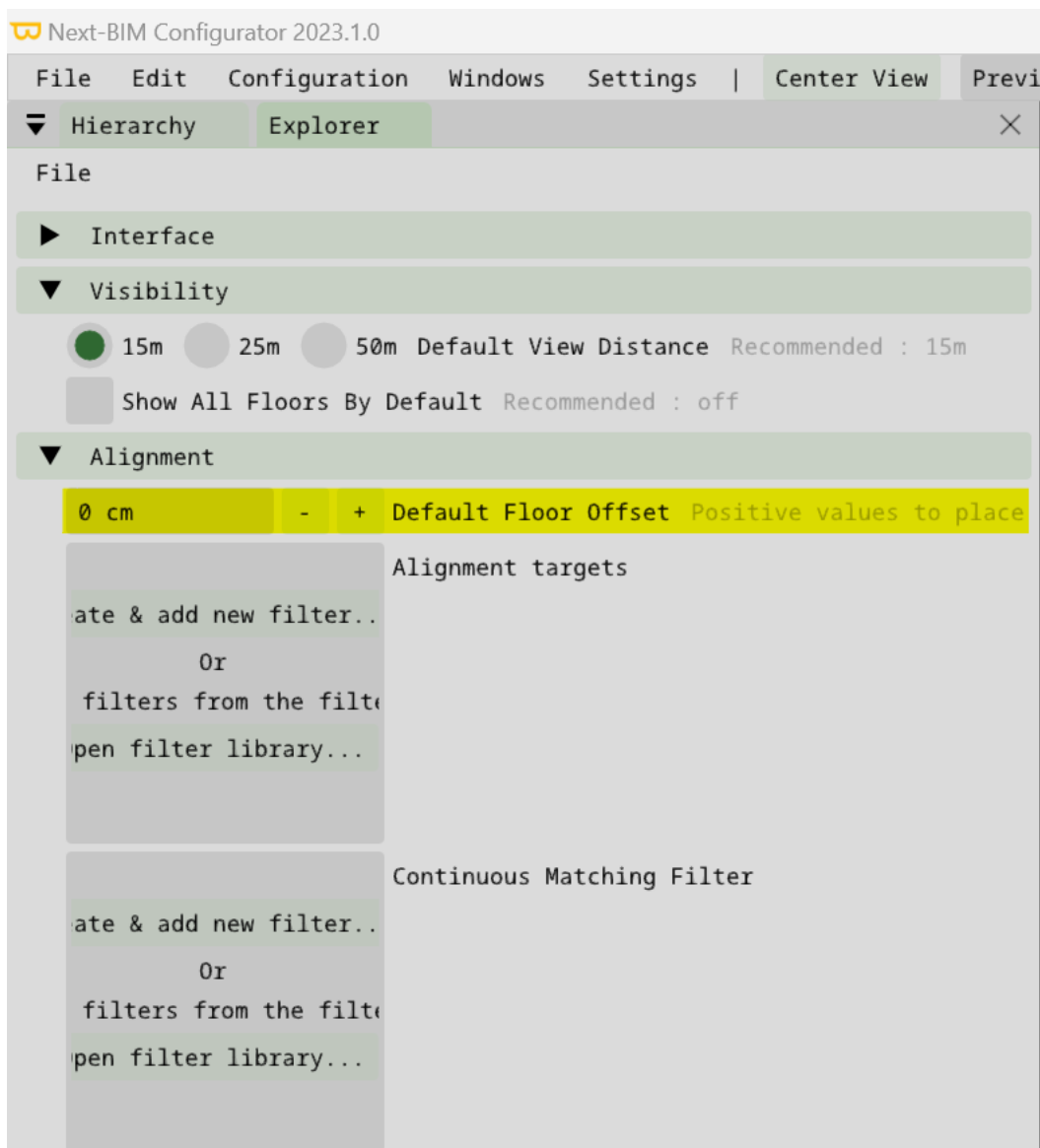


3. Alignment Configuration

a) Configuration of the offset between the modeled floor and the actual floor

If the modeled floors do not match the actual floors in certain areas, you can configure an offset in NEXT-BIM Explorer. This allows you to adjust the position of the floor with a single click.

- 1) Go to the "Explorer" tab > "Alignment" > "Default Floor Offset"



- 2) Specify the offset value. In NEXT-BIM Explorer, the following values (in cm) are already available: -15 / -10 / -5 / +5 / +10 / +15.

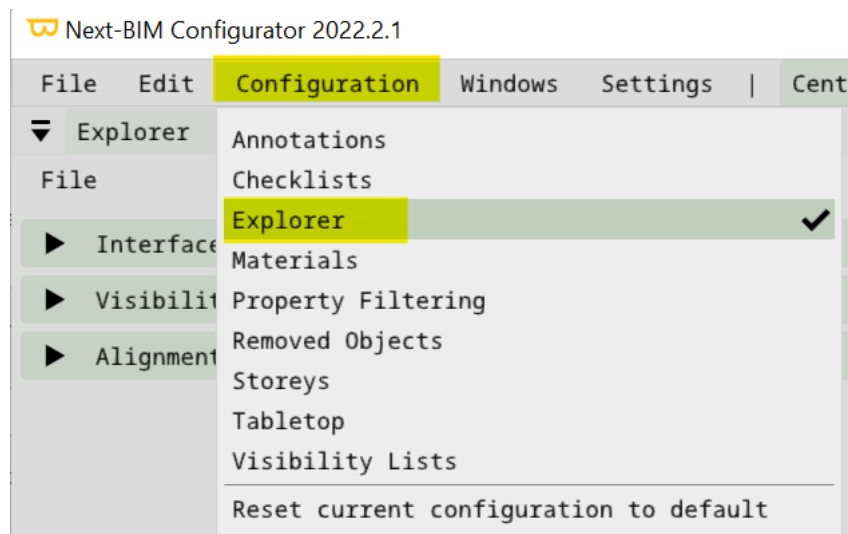
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



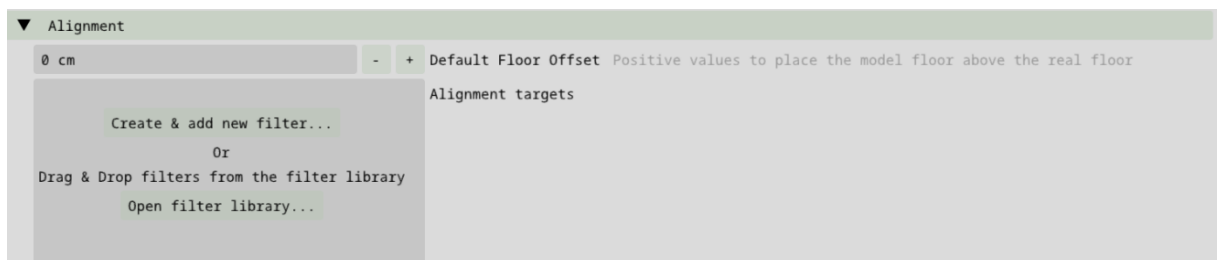
b) Configure the complementary tool for continuous matching alignment : Quick realignment targets

To configure the quick realignment tool using targets in NEXT-BIM Explorer, follow these steps:

1. First, make sure you have previously modeled the targets in your .ifc files.
2. Access the "Configuration" menu and select "Explorer."



3. In the "Alignment" tab, click on the "Alignement target" button and then "Create & add new filter" to create a new filter.



4. Give your filter a name, for example, "Targets," to distinguish it from other filters.
5. Configure the filter to include all the targets you want to use for quick realignment.

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6. If you want to filter targets by name, you can specify the target's name in the filtering criteria.
7. If you want to filter targets by file, you can specify the name of the file containing the targets in the filtering criteria.
8. If you want to filter targets by properties, you can specify specific properties of the targets in the filtering criteria.
9. Once you have configured the filter to include the desired targets, click the "Back" button to save the filter.
10. Now you can use the quick realignment tool using targets, referring to the NEXT-BIM Explorer video tutorial for more information on its usage. This tool allows you to quickly realign your model using the targets you have previously filtered and configured.

By setting up a specific filter for targets and using the quick realignment tool using targets, you can achieve precise and efficient realignment of your model in NEXT-BIM Configurator for areas that are not conforming to the model or have complex environments (no reference objects to be integrated).

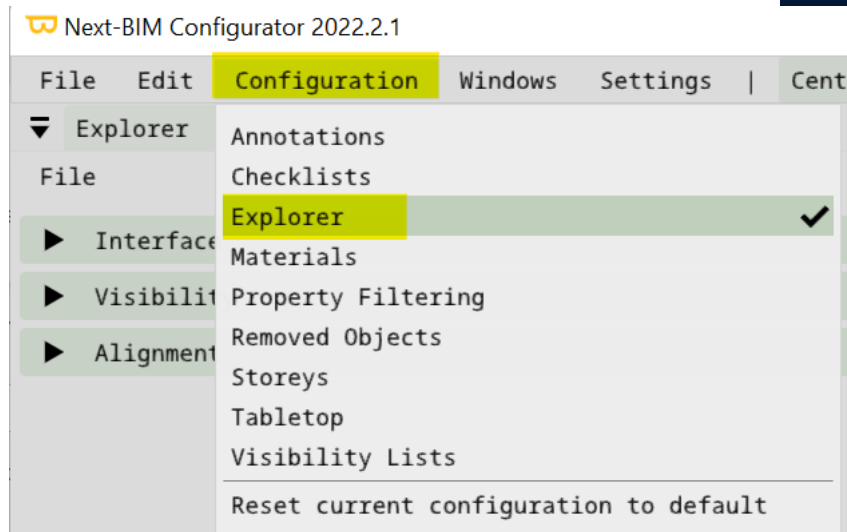
c) Configurer continuous matching : Enhancing continuous alignment reliability

By default, NEXT-BIM Explorer performs continuous alignment on all vertical planar surfaces belonging to structural IFC categories such as IfcWall, IfcWallStandardCase, IfcSlab, IfcBeam, etc.

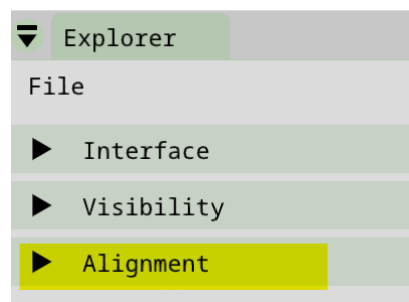
- If you want to disable this limitation and consider all vertical planar surfaces, you can uncheck the corresponding option in the continuous alignment tool settings in NEXT-BIM Explorer. To further customize continuous alignment, you can use rules to select the objects on which the system will perform continuous alignment.
- You can define rules based on object properties, such as their IFC type, name, properties, floors, etc.
- By using appropriate filters and criteria, you can determine the objects on which continuous alignment will be applied.

To configure custom continuous matching in NEXT-BIM Explorer, follow these steps:

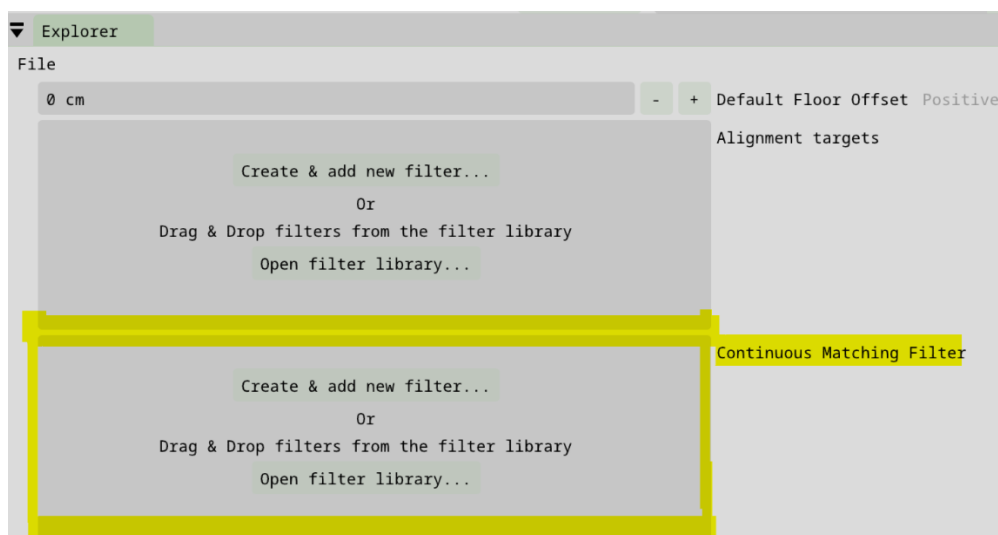
1. Access the "Explorer" menu in NEXT-BIM Configurator.



2. Select the "Alignment" option from the dropdown menu.



3. In the "Alignment" submenu, choose the "Continuous Matching Filter" option.





4. A filter configuration window will open, allowing you to customize the rules for continuous alignment.
5. Once you have configured the rules according to your needs, click the "Back" button to save the configuration of the custom continuous matching filter(s).
6. From now on, NEXT-BIM Explorer will use the rules you have defined to perform continuous alignment on the selected objects.

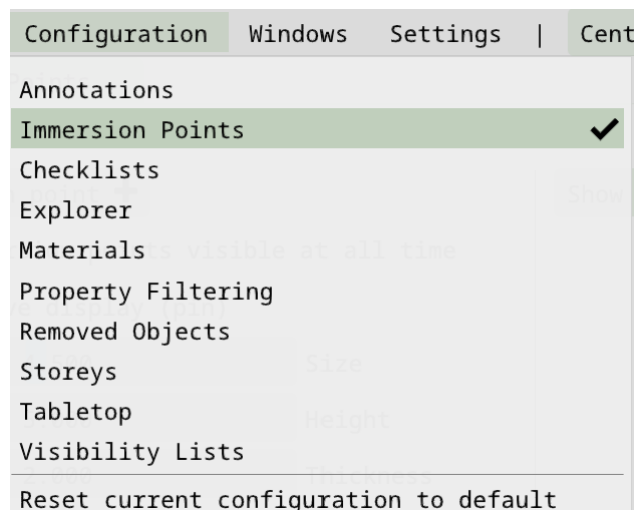
By customizing the continuous alignment settings in NEXT-BIM Explorer, you can tailor the system to your preferences and specific needs. This will enable you to achieve more accurate and reliable alignment of your model in the software.



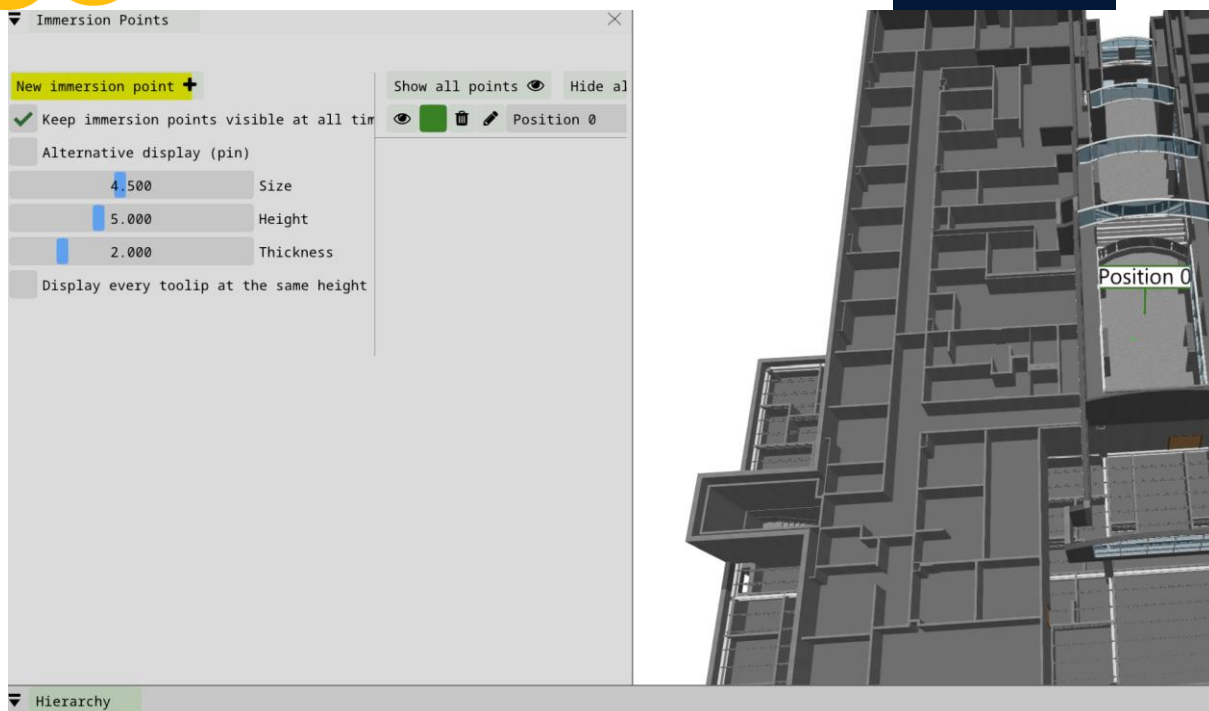
I. Preconfigure Immersions Points

To preconfigure interest points in NEXT-BIM Configurator, follow these steps:

1. Access the "Configuration" menu in NEXT-BIM Configurator.
2. Select the "Interest Point" option from the dropdown menu.



3. Once in the interest points window, you can position interest points at specific locations in your model.
4. Click the "Add" button to add a new interest point.



5. You can name the interest point and specify its position using the mouse.
6. Repeat steps 4 and 5 to add as many interest points as needed.

When users access the TableTop model in NEXT-BIM Explorer, they will be able to select a preconfigured interest point and be immediately positioned at that location in the 1:1 scale model. This facilitates navigation and immersion in specific areas of the model, providing a smoother and more convenient user experience. By preconfiguring interest points in NEXT-BIM Configurator, you enhance the user experience in NEXT-BIM Explorer by allowing users to quickly and accurately position themselves at key locations in the model.



XII. BEFORE .NBIM CONVERSION

A. Cleaning up the model

Cleaning up the model is a compulsory step in order to avoid any discrepancies in tabletop mode (display above the blue circle or model too small) and also for your future conversion to .nbim. Any objects far from the centre of the project will interfere with either the tabletop display or the conversion to .nbim.

1. Automatic cleaning

Automatic clean-up is available. When importing your files, if distant objects are detected, an "outliers" tab will open.

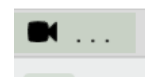
A list of remote objects will appear. Click on the name of the object to view it.

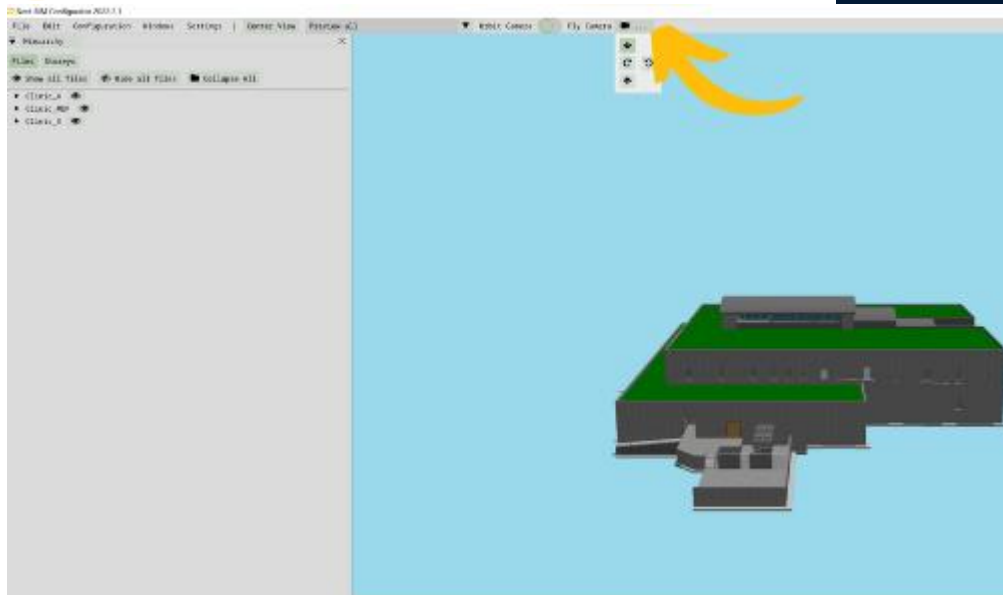
If, after checking, you wish to remove these objects, click on "remove outliers from project".

2. Nettoyage manuel

To clean your model manually, follow these two steps:

- 1) Display your model in top view. Click on the camera icon.

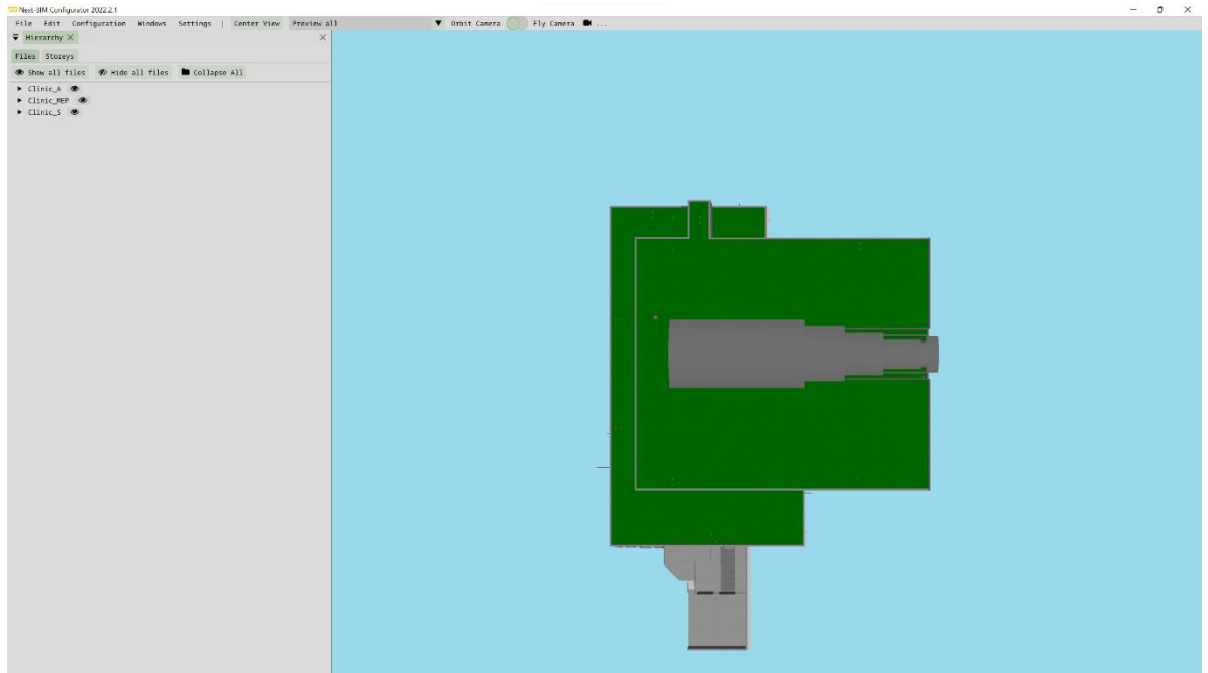




Click on the "down" arrow

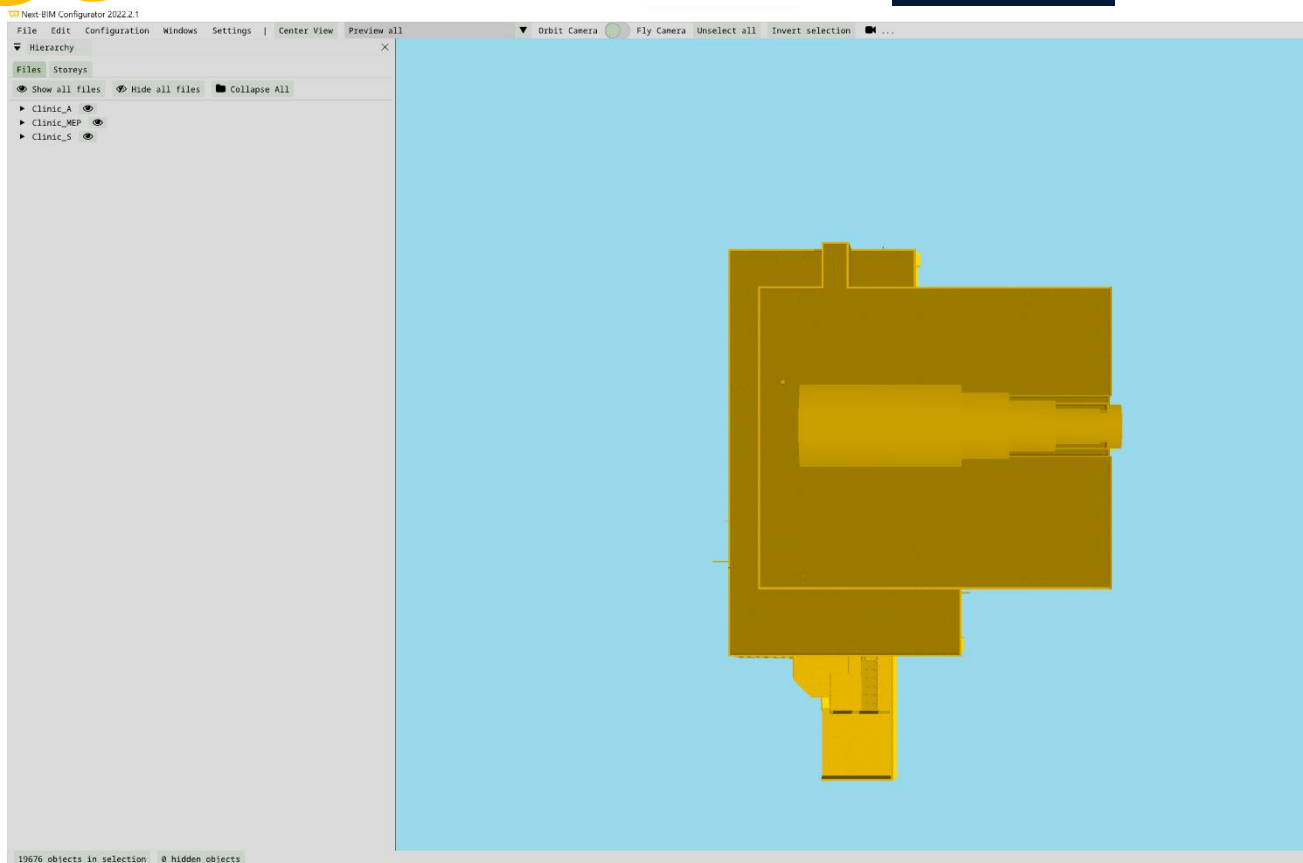


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Make a selection box as close as possible to the edges of your 3D model: Hold down Ctrl + Right Click.

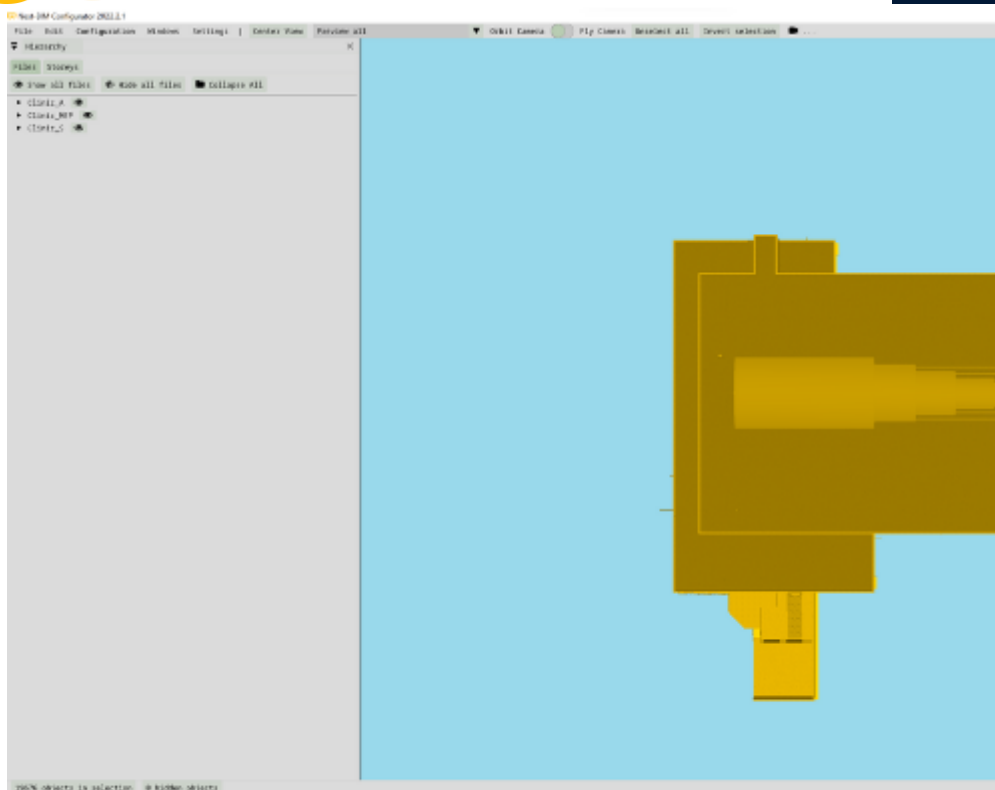
Once your model is selected, the selection will be highlighted in yellow.



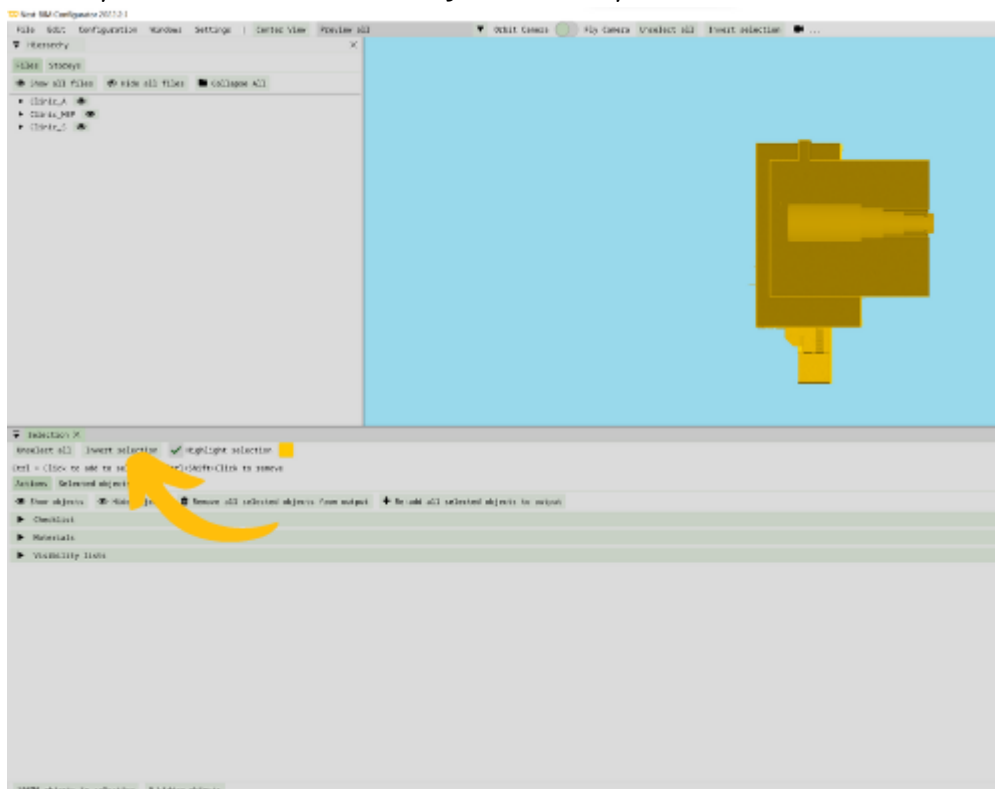
Open the selection panel by clicking on "X objects in selection".

17587 objects in selection

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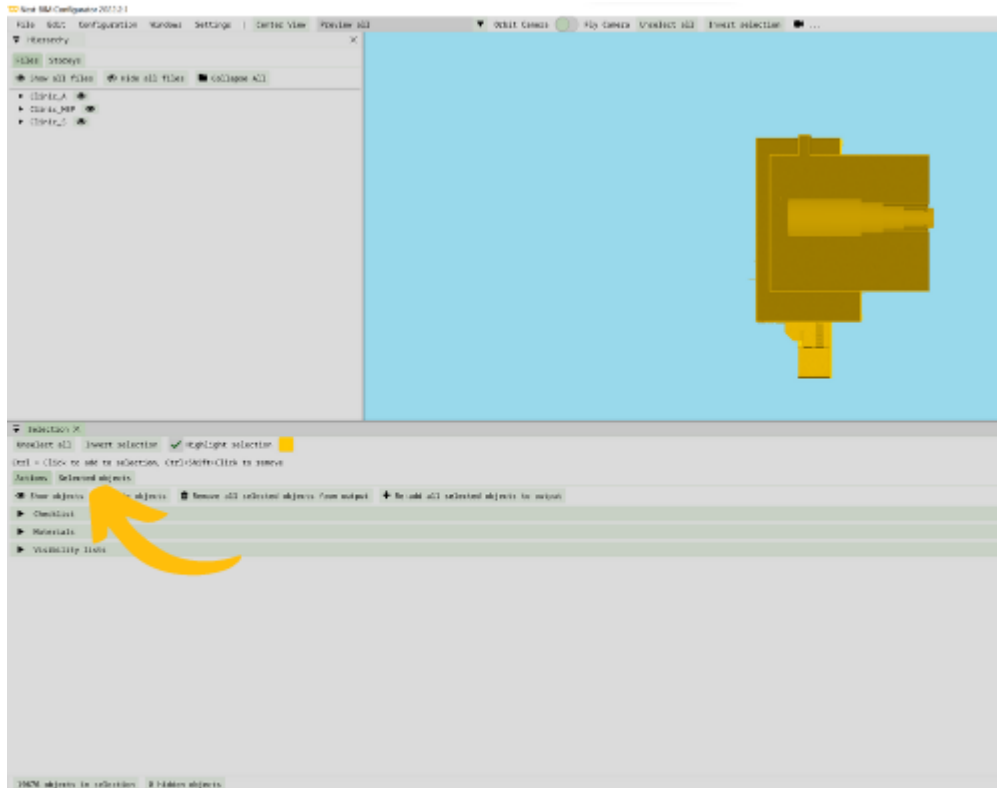
Invert your selection, and all objects not in your selection box will be selected.



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Click on "Remove all selected objects from output" to remove all unwanted objects.



Then repeat the operation with a side view.



Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



B. Cutting your model (necessary for large, dense files)

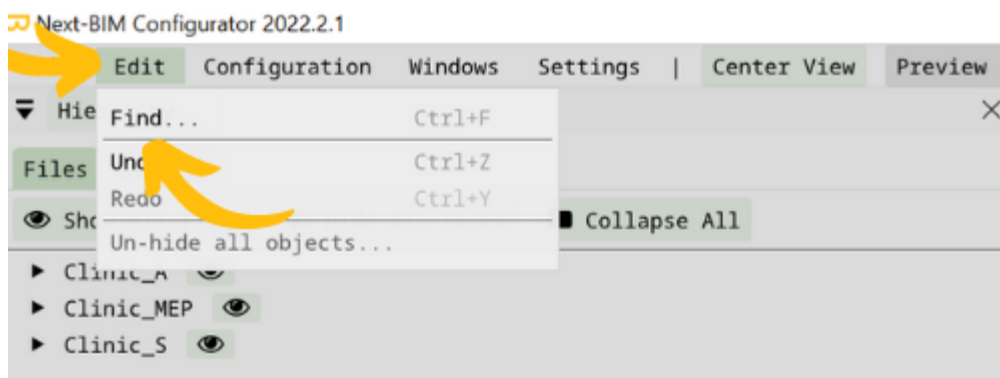
To improve NEXT-BIM Explorer's performance in very large models, it is advisable to cut your model according to its use. For example, if you are carrying out an inspection at level 1, the other levels are not necessarily necessary, or if a building component is not necessary for your use, delete it.

There are several ways of cutting your model.

1. Use the "Find" tool to add the part of the model to be imported to your selection box.

To do this, your .ifc files must be sorted by technicals.

Pour cette manière, vos fichiers .ifc doivent être classés par corps d'états.



In this example, we only want to import level 1 of the building, and you don't want to include any of the MEPs.

Select the Architecture and Structure file from the "Files" drop-down menu





Select the first floor; for information, the search will be carried out in all the storeys on the first floor, despite the file display.



The number of objects in the search appears in the "results" box.

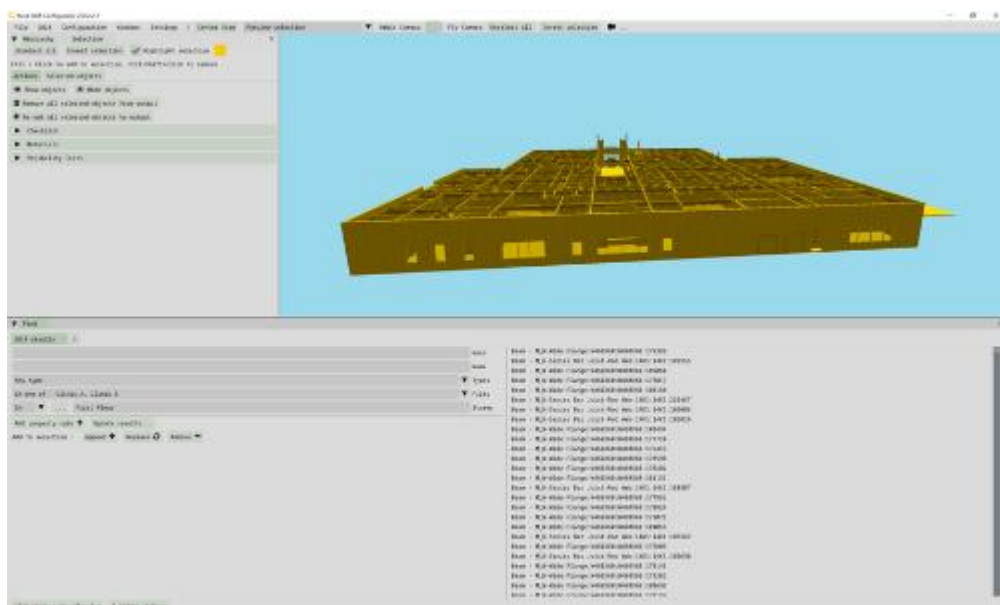
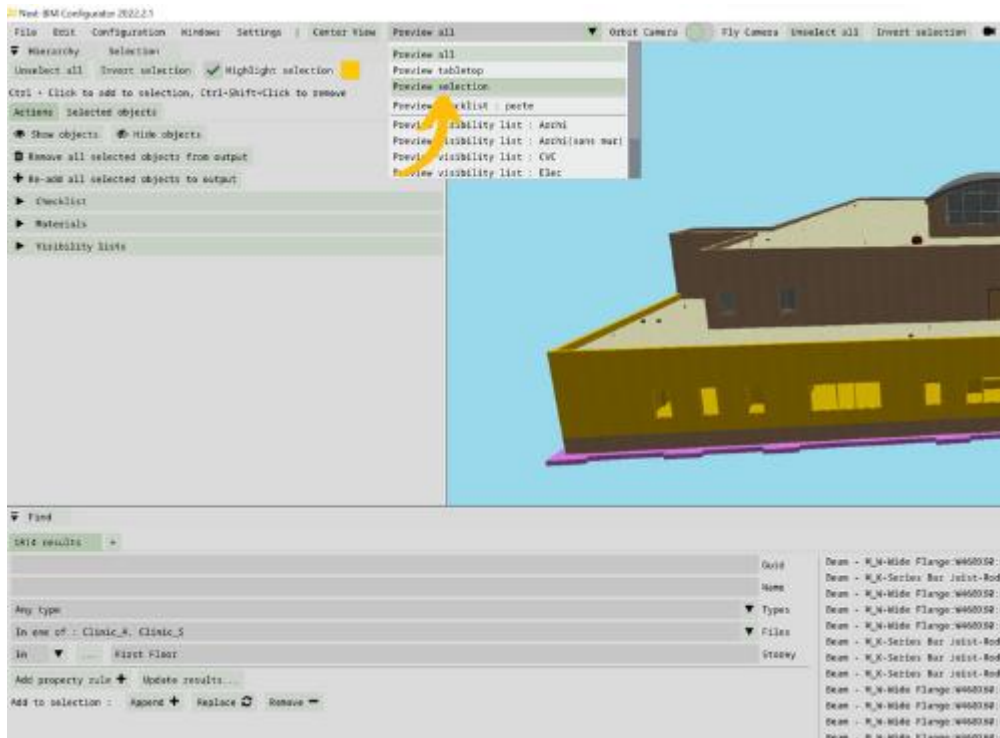
To add this search to your selection, click on "Append".



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The selection window will open automatically. To preview your selection, click on "Preview selection".

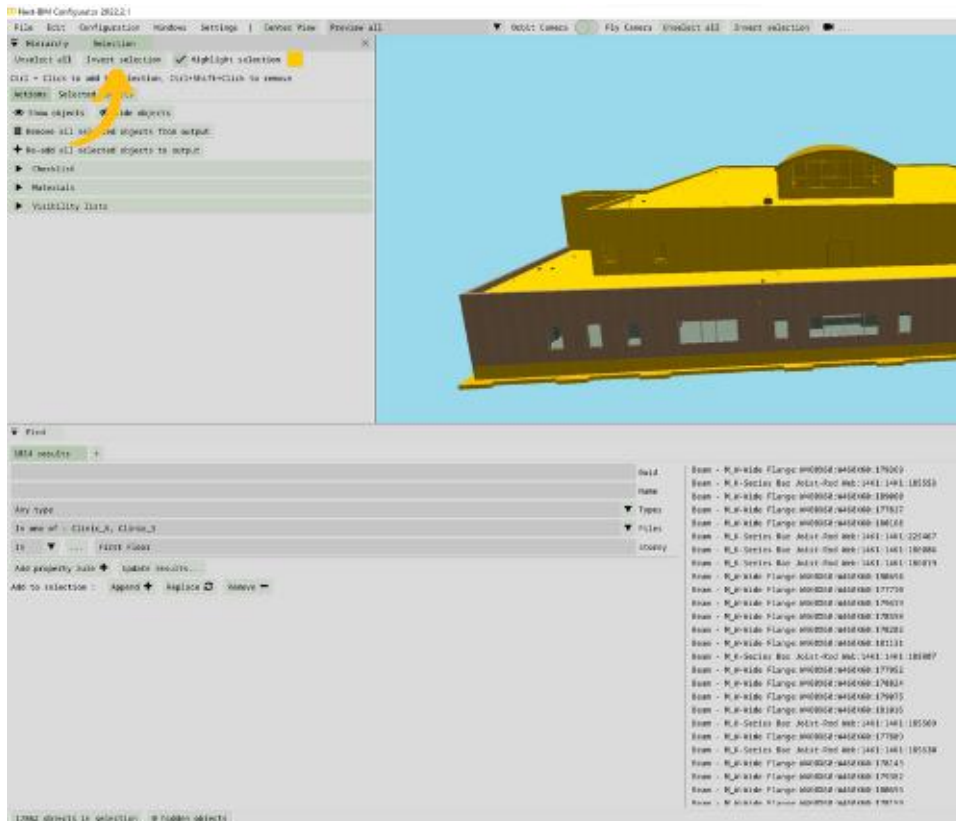


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We want to keep this level 1. We are going to invert our selection to remove the objects from our selection.

Click on "invert selection".



Finally, remove the objects from your project by clicking on "Remove selected objects from output".

Your cut is finished.

Please note: Deleted objects are kept in your Configuration>Removed Objects tab.

2. Use Storey's Configuration tool to reorganise your hierarchy by level and cut out the model by level..

To perform a level cut using the Storey Configuration tool in NEXT-BIM Configurator, follow these steps:

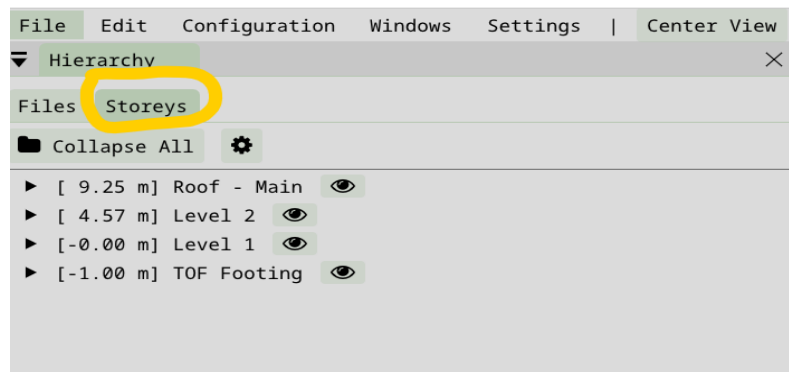
Access the Storey Configuration tool: In NEXT-BIM Configurator, go to Windows > Hierarchy > Storeys.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

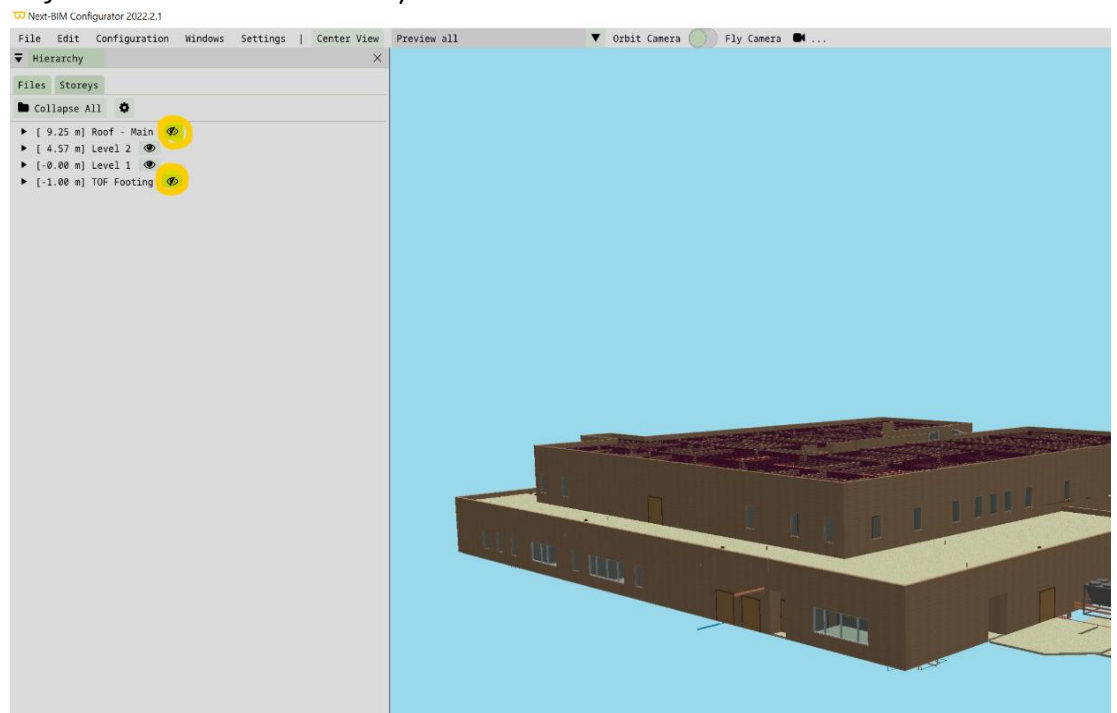


- 1) Configure your storeys: Make sure that you have correctly configured your levels in your CAD software (for example, Revit) so that the management of storeys is based on these levels. The levels you wish to import into NEXT-BIM Configurator must be correctly defined in your CAD software.
- 2) Configure your levels in NEXT-BIM Configurator) (see here)
- 3) Hide unwanted levels: In the Storeys tab, hide the levels you do not wish to import into NEXT-BIM Configurator by clicking on the "eye" icon corresponding to these levels. For example, hide the "Roof-main" and "TOF footing" levels

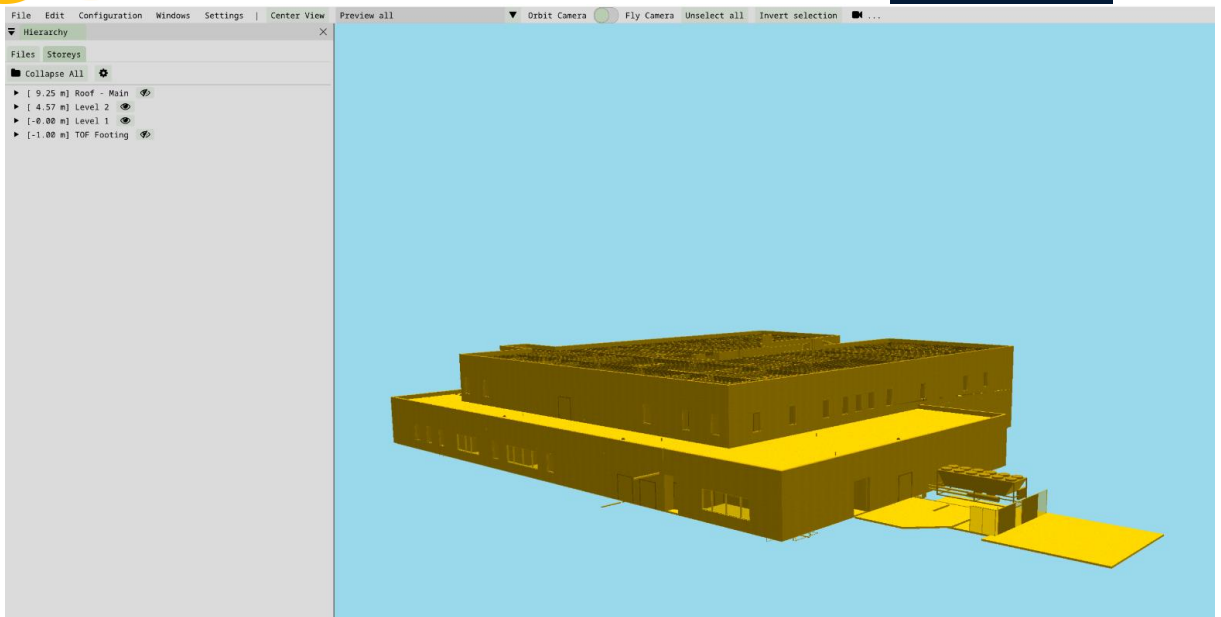
Next-BIM Configurator 2022.2.1



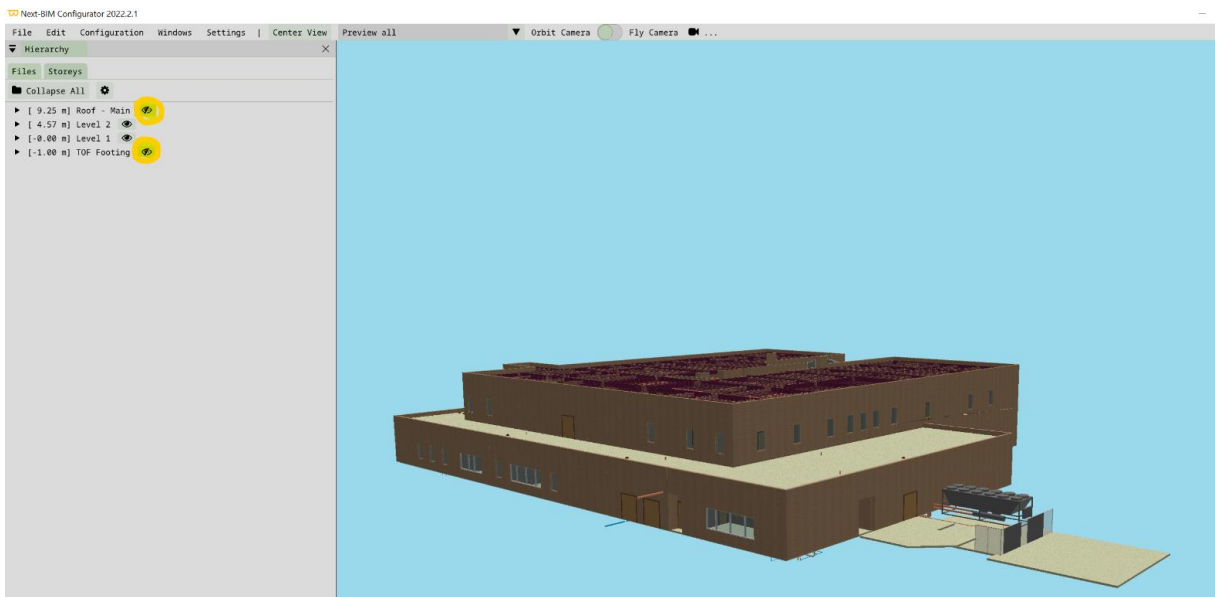
- 4) Make a selection box: Use the CTRL + Right Click key combination to make a selection box around the current view. This will select all the objects visible in the levels you have chosen.



Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

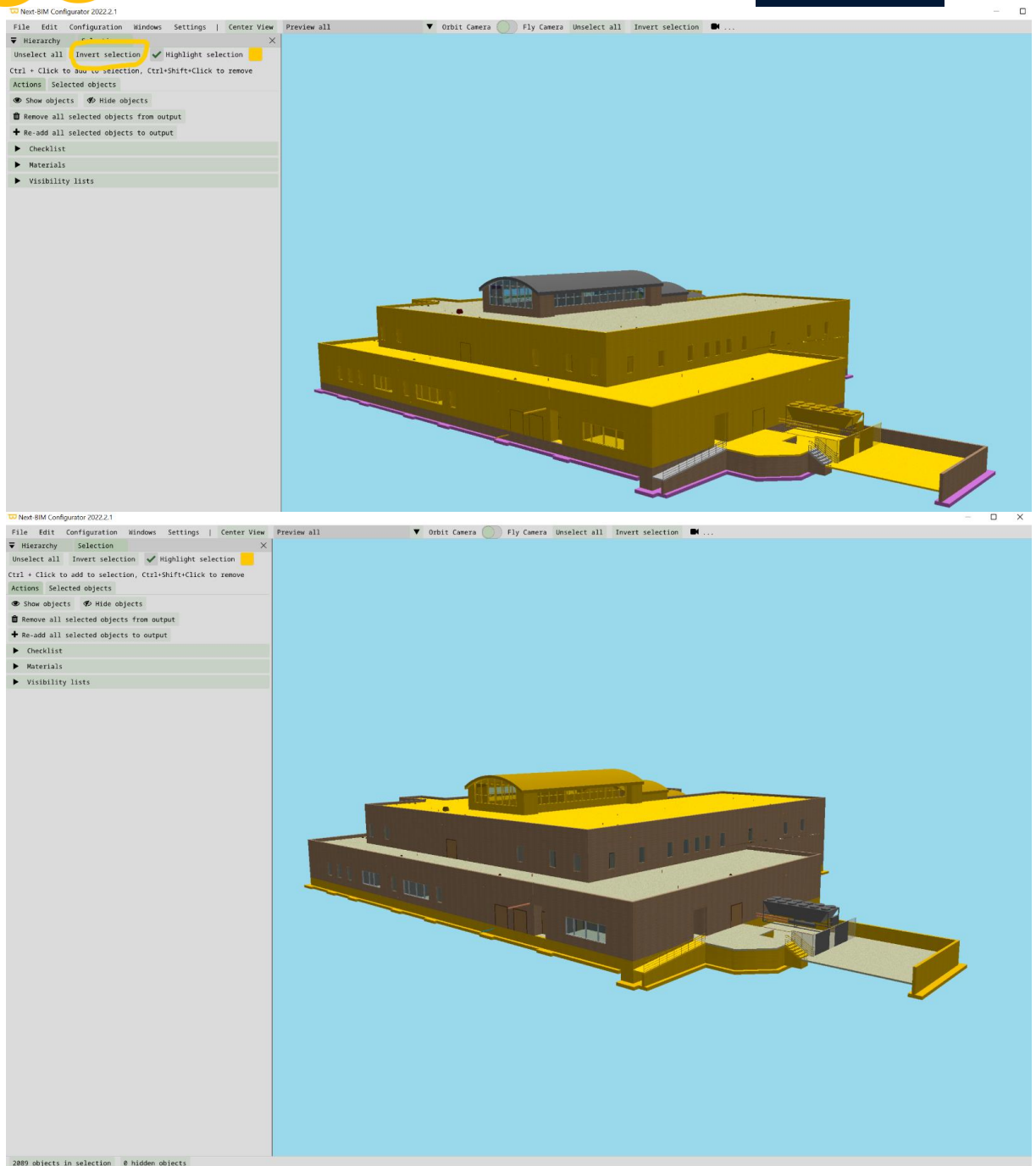


7. Re-display hidden levels: Click on the "crossed out eye" icons corresponding to the levels you have previously hidden to re-display them.



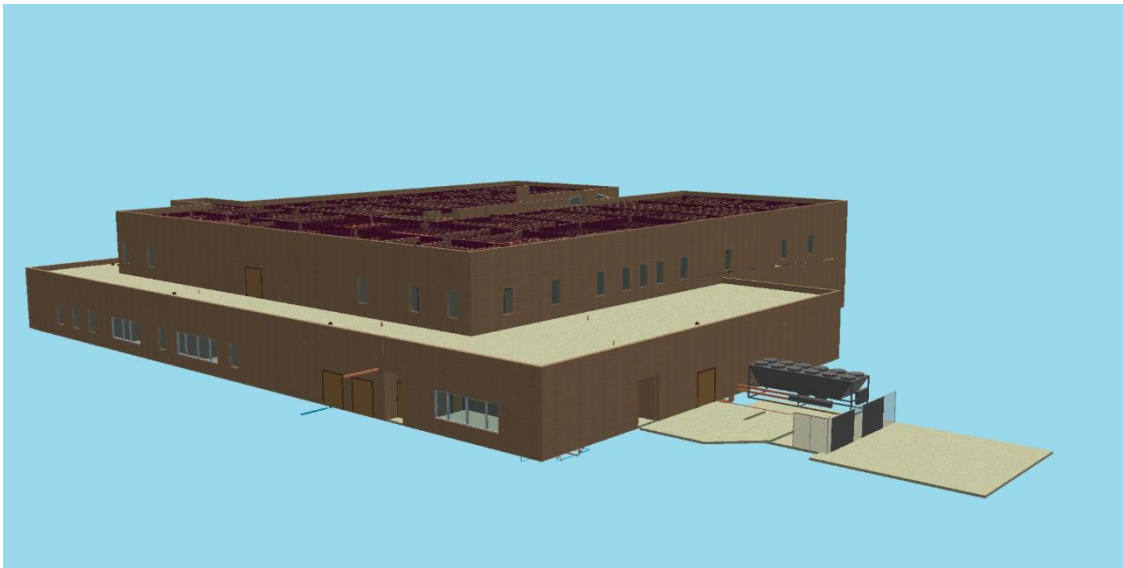
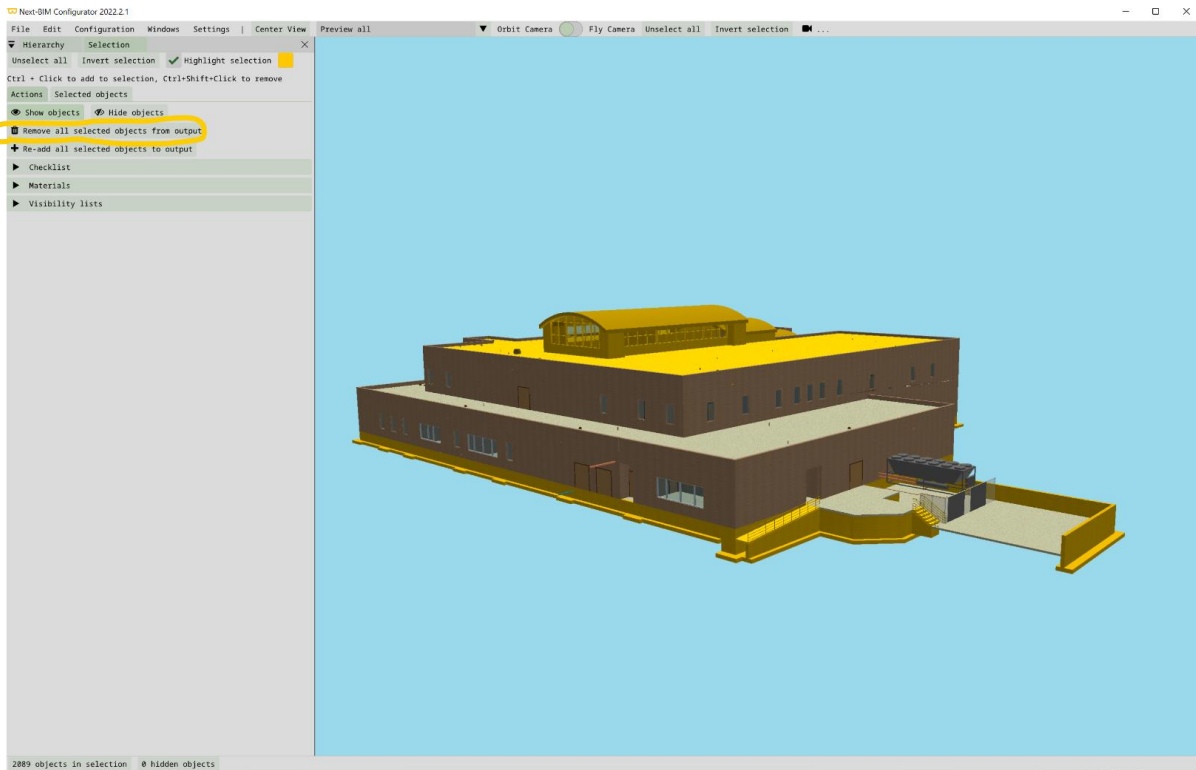
8. Invert the selection: In the current selection, invert the selection using the appropriate options. This will select all the objects which are not part of your initial selection box

```
17587 objects in selection
```



9. Remove selected objects from output: Click on the "Remove all selected objects from output" option to remove all selected objects from the output. This will cut the model by level, leaving only the objects on the levels you have selected.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



CAUTION: if a duct passing through two levels (level 01 and level 02) has been referenced on level 01, storey management will take this reference into account and will not appear in level 02.

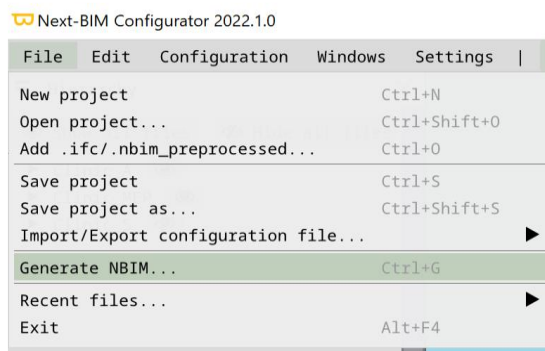
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



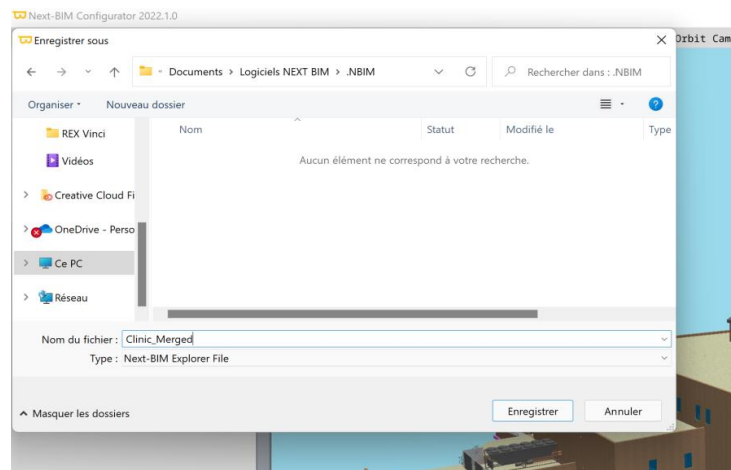
XIII. Generating the .nbim file and importing it into your HoloLens 2

To generate the .nbim file and import it into your HoloLens 2, follow these steps :

1. Make sure you have cleaned up your model before converting it. You can refer to the instructions provided earlier to carry out this step (see [here](#))
2. In NEXT-BIM Configurator, go to the "File" menu and select "Generate .nbim".



3. Choose the location where you want to save the .nbim file on your computer and click "Save".



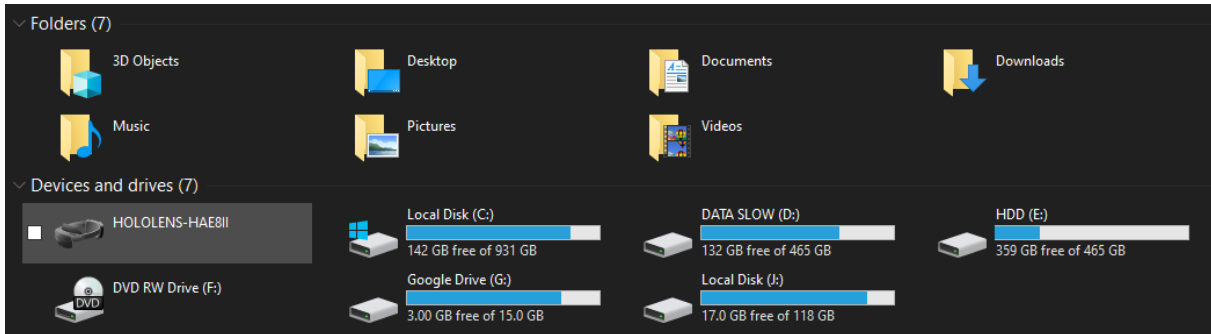
4. Once the .nbim file has been saved, you have two options for importing it into your HoloLens 2 :

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>

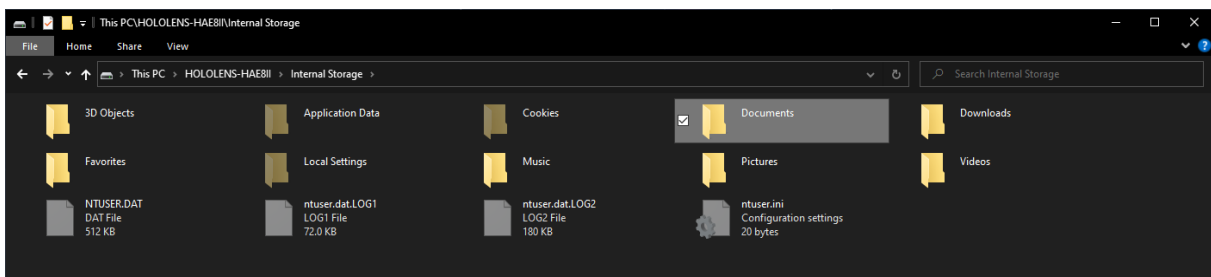
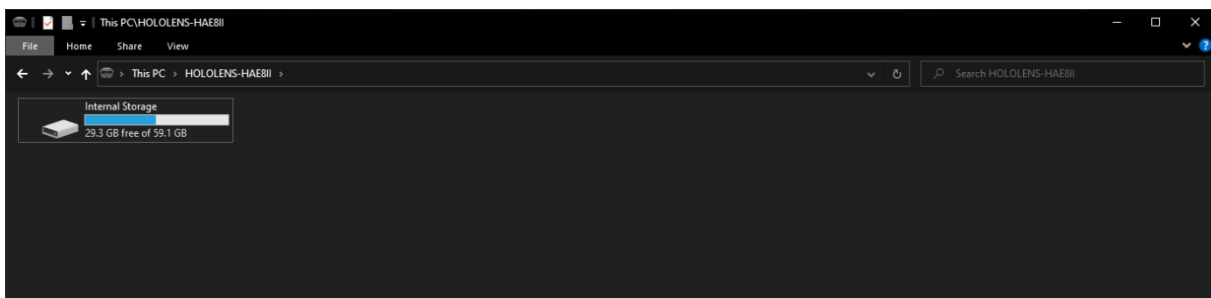


A. Import via your USB-C device :

1. Connect your HoloLens 2 to your computer using a USB-C cable.
2. Open the file explorer on your computer and access the HOLOLENS device.

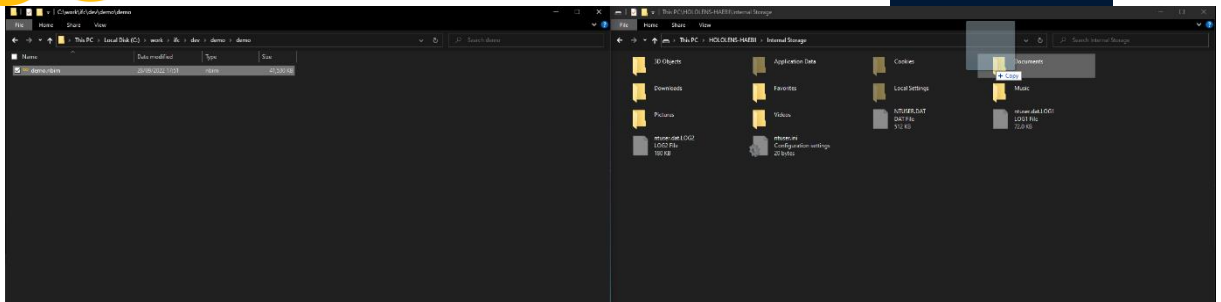


3. Navigate to the "Internal Storage" folder and then open the "Documents" folder.



4. Copy the .nbim file to the "Documents" folder. You can create a specific folder for your project if you wish.

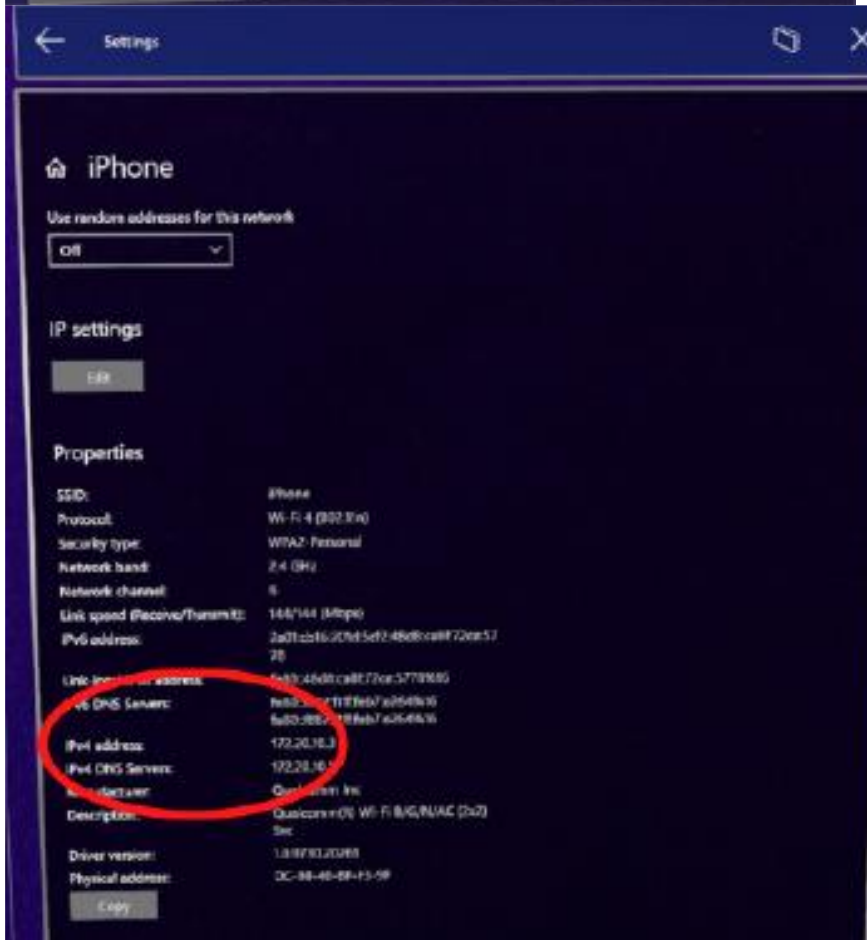
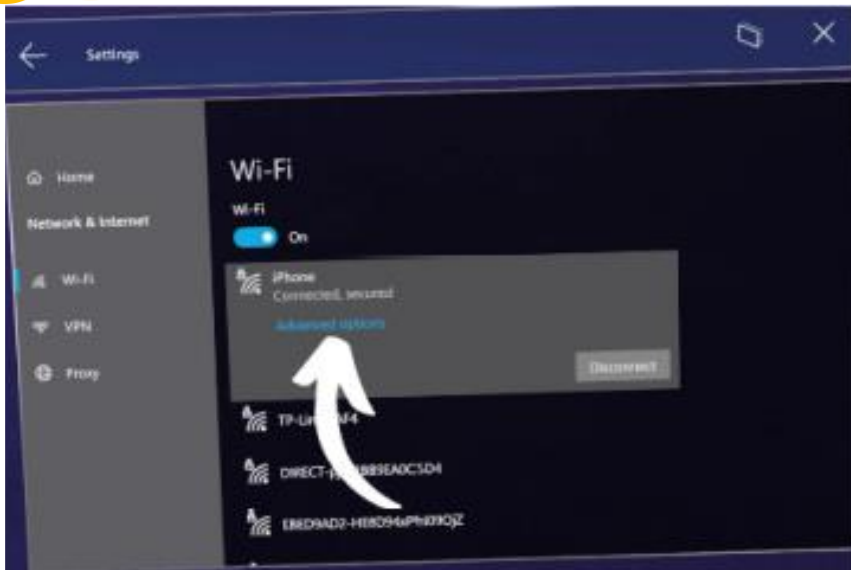
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



B. Import via Windows Device Portal :

- 1) Make sure your computer and HoloLens 2 are connected to the same Wi-Fi network.
- 2) Obtain the IPv4 address of your HoloLens 2 by using the voice command "What is my IP?" on your HoloLens 2 or by accessing the headset settings (Settings/Network & Internet/Wi-Fi/[Your network]/Advanced options/IPv4).

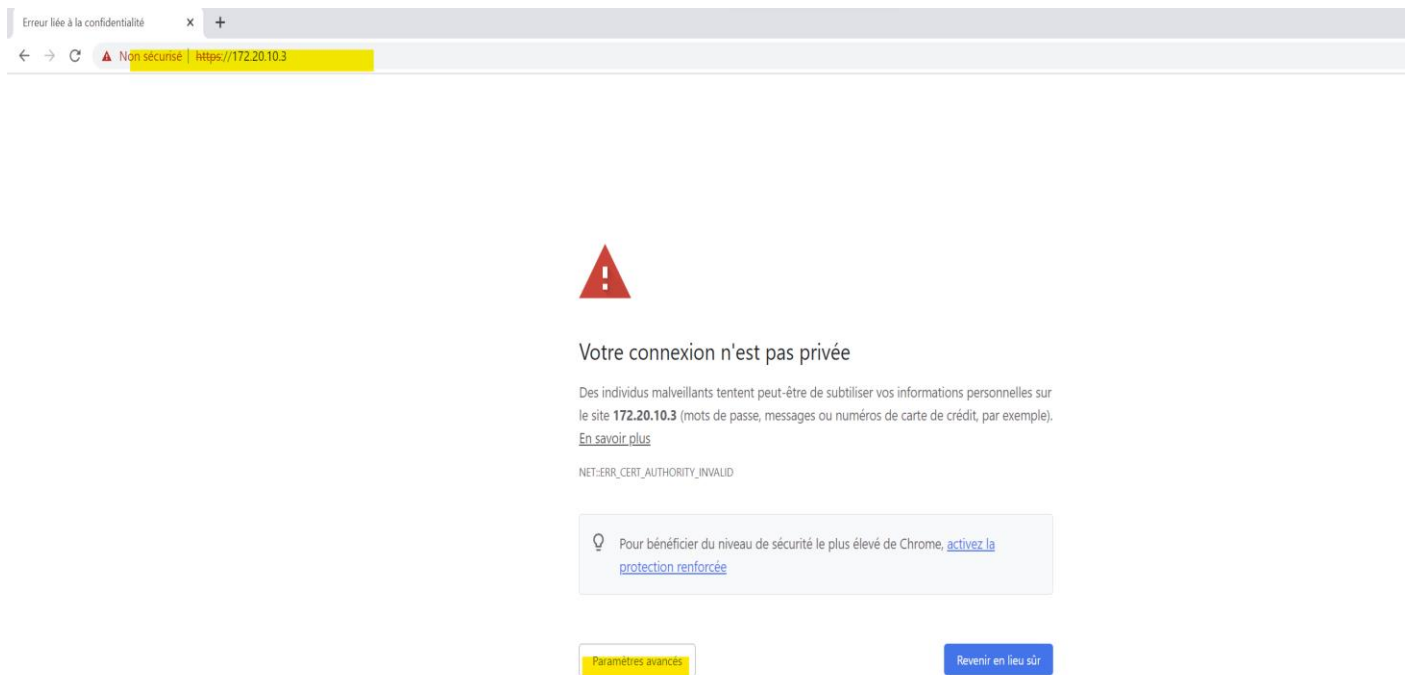




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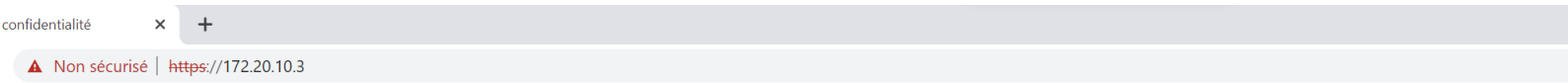
- 3) In your web browser (Google Chrome or Mozilla Firefox recommended), enter the IPv4 address of your HoloLens 2.



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4) If necessary, accept the security alerts and continue to the dangerous site.



Votre connexion n'est pas privée

Des individus malveillants tentent peut-être de subtiliser vos informations personnelles sur le site **172.20.10.3** (mots de passe, messages ou numéros de carte de crédit, par exemple).
[En savoir plus](#)

NET::ERR_CERT_AUTHORITY_INVALID

💡 Pour bénéficier du niveau de sécurité le plus élevé de Chrome, [activez la protection renforcée](#)

Masquer les paramètres avancés

Revenir en lieu sûr

Impossible de vérifier sur le serveur qu'il s'agit bien du domaine **172.20.10.3**, car son certificat de sécurité n'est pas considéré comme fiable par le système d'exploitation de votre ordinateur. Cela peut être dû à une mauvaise configuration ou bien à l'interception de votre connexion par un pirate informatique.

[Continuer vers le site 172.20.10.3 \(dangereux\)](#)

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- 5) Log in with your username and password (the ones you set when you first logged in).

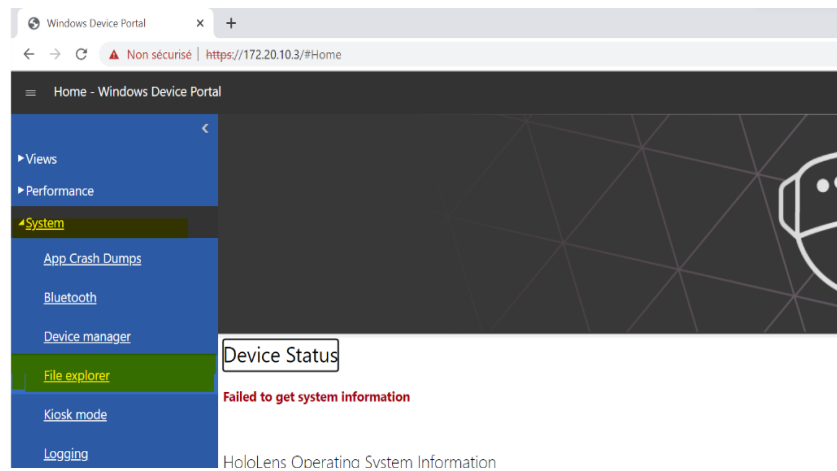
Se connecter pour accéder à ce site

Autorisation requise par https://172.20.10.3

Nom d'utilisateur

Mot de passe

- 6) Go to System > File Explorer in the Windows Device Portal.



- 7) Navigate to the "Documents" folder and create a new folder for your project.

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File explorer - Windows Device Portal

File explorer

Directory path

User Folders \

User Folders

Type	Name
Folder	3D Objects
Folder	DevelopmentFiles
Folder	Documents
Folder	Downloads
Folder	LocalAppData
Folder	Music
Folder	Pictures
Folder	PublicDocuments
Folder	Videos

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



8) Go to the new folder and click on "Choose a file" to select the .nbim file to be imported.

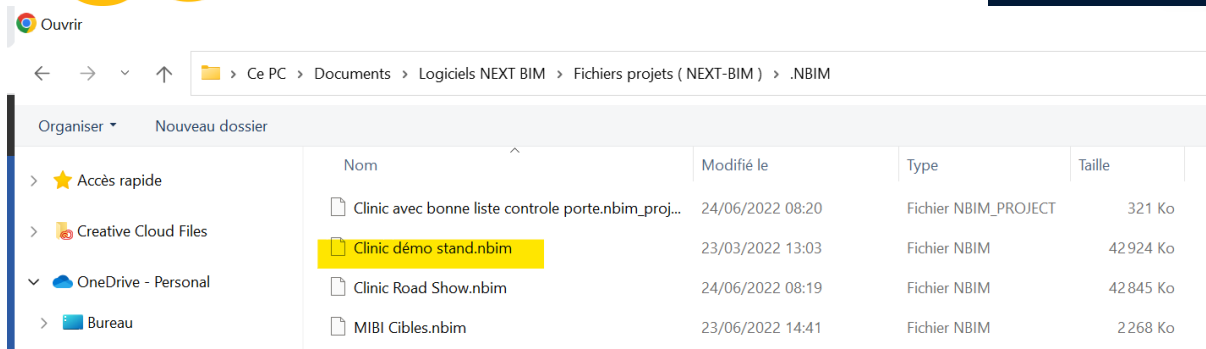
The screenshot shows the Windows Device Portal interface. A dialog box titled "172.20.10.3 indique" is open, asking for an "Enter folder name". The name "TUTORIAL" is entered in the text field. Below the dialog, the File Explorer shows the directory path "User Folders \ Documents \". The "Directory contents" table is visible:

Type	Name	Date Created	File Size	Save	Delete	Rename
+	Create New Folder					
📄	desktop.ini	27/06/2022 15:29:06	190.0 byt...	📄	🗑️	✎
📄	HOLOLENS-C4GQMN_AskLicense.xml	08/09/2022 09:38:41	502.0 byt...	📄	🗑️	✎
📄	HOLOLENS-C4GQMN_AskLicense.xml	08/09/2022 10:06:07	589.0 byt...	📄	🗑️	✎

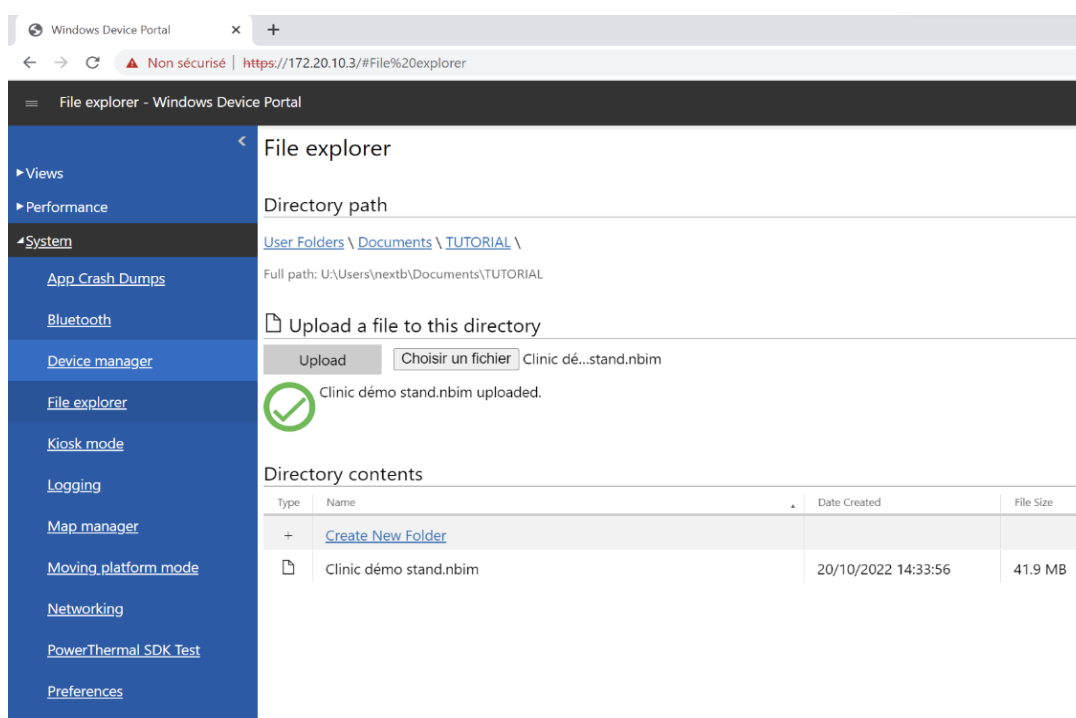
The screenshot shows the Windows Device Portal interface with the "TUTORIAL" folder selected in the directory path. The "Directory contents" table is now empty, showing only the "Create New Folder" option:

Type	Name	Date Created	File Size	Save	Delete	Rename
+	Create New Folder					

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



9) Click on "Upload" to finalise the file import. The .nbim file will be imported into your HoloLens 2.



10) Once the .nbim file has been imported into your HoloLens 2, you will be able to open and explore it using the NEXT-BIM Explorer application for an immersive experience of your model.

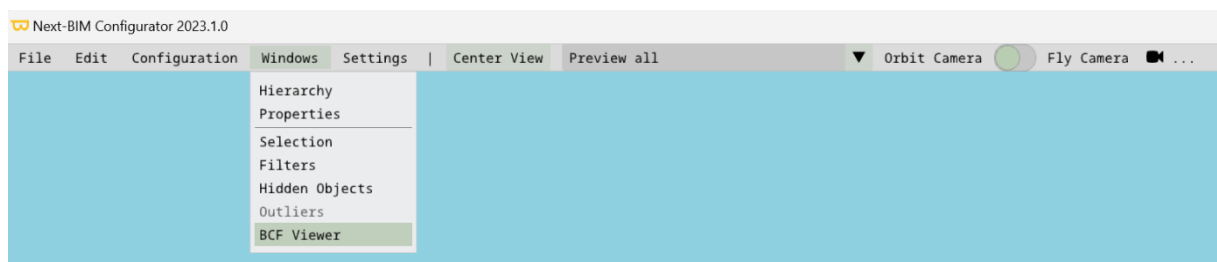
Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



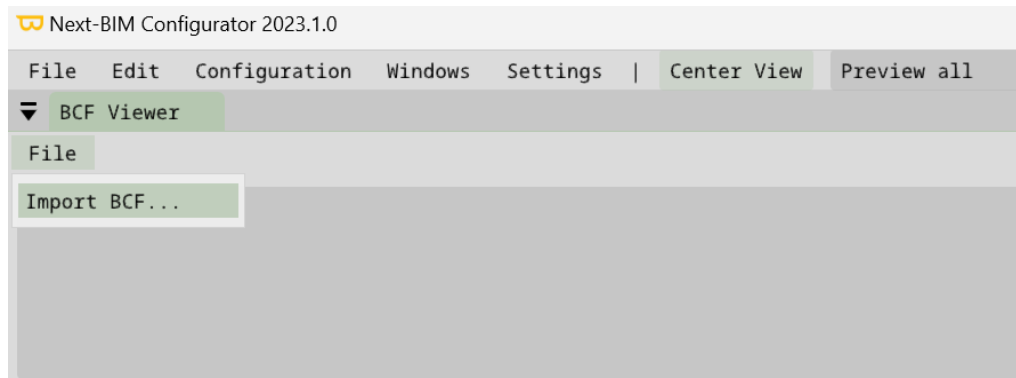
XIV. Viewing annotations in NEXT-BIM Configurator (BCF Viewer).

To view annotations in NEXT-BIM Configurator using the BCF Viewer, follow these steps:

- 1) NEXT-BIM Configurator, go to the "Windows" menu and select "BCF Viewer". This will open the BCF Viewer in a new window.



- 2) To import a BCF file containing the annotations, click on the "File" button in the BCF Viewer, then select "Import BCF...".



- 3) In your file explorer, navigate to the location where you saved the BCF file on your computer. Select the file and click "Open" to import it into the BCF Viewer.

If you have exported BCF files from NEXT-BIM Explorer to your HoloLens 2, you can access these files in the "Pictures" or "Images" folder on your HoloLens 2. When importing, make sure you select the appropriate BCF file from this location.



Once the BCF file has been imported, you will be able to view the annotations created in NEXT-BIM Explorer in the BCF Viewer of NEXT-BIM Configurator. The annotations will be displayed with their corresponding information, such as comments, images, links, etc. This will allow you to view and work with the annotations in the NEXT-BIM Configurator environment.

xv. Additional information

A. Incorrect georeferencing of models

When exporting .ifc files, check the georeferencing parameters so that your different .ifc models are superimposed.

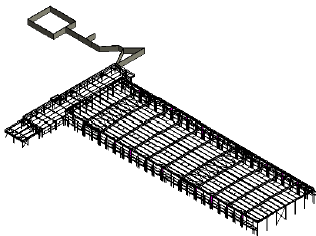
a) IFC EXPORT repositioned FROM REVIT

The purpose of this note is to set out a simple method for exporting a project with linked mock-ups to IFC and obtaining correctly georeferenced IFCs.

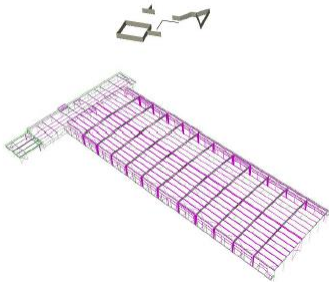
TESTS CARRIED OUT WITH REVIT 2018

2 RVT models linked and repositioned correctly in Revit.

The whole project is exported in IFC.



Viewed in Revit



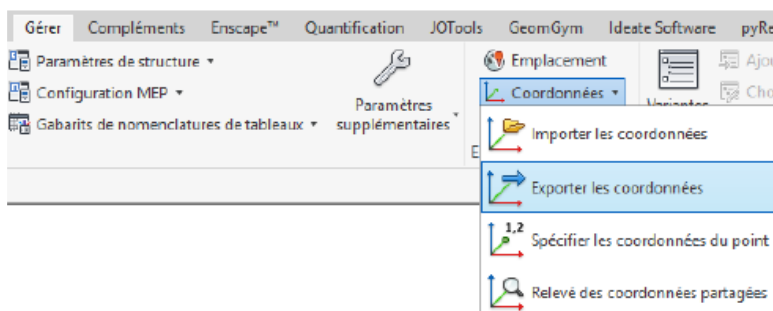
Viewed in Navisworks

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



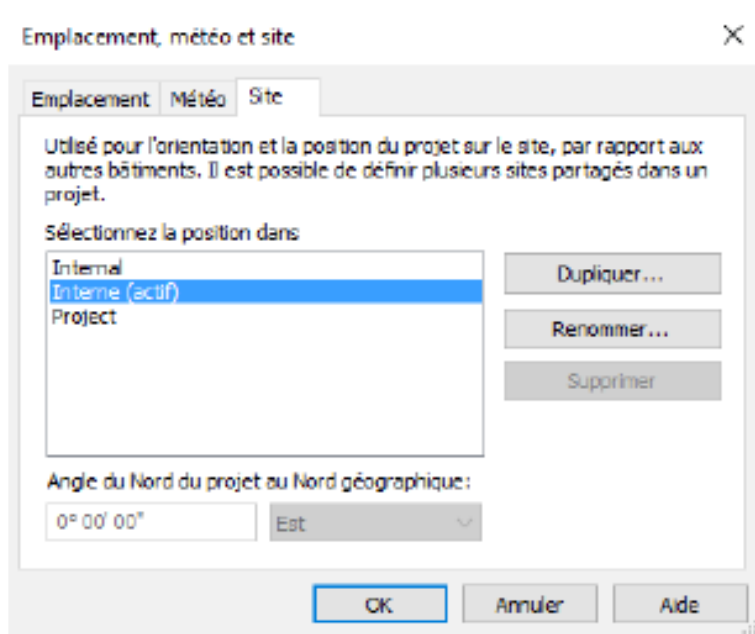
When viewing the IFCs exported from Revit in Navisworks, a discrepancy can be seen.

CORRECTIONS MADE IN REVIT



Click on **EXPORT COORDINATES** and then click on an element belonging to EACH linked file in the project.

Each time the dialogue box below appears, check that **"Internal (active)"** is selected in the "Select position in" list. Then click **OK**.



Then **SAVE** the project.

Retrouvez tous les documents de supports sur votre espace client : <https://next-bim.com/espace-client/>



Answer SAVE NEW POSITION for each linked file.

Position d'emplacement modifiée



Vous avez modifié la position actuelle dans D1.rvt. Que voulez-vous faire?

→ Enregistrer

Enregistre la nouvelle position dans le lien.

→ Ne pas enregistrer

Retrouve la dernière position enregistrée au moment du rechargement ou de la réouverture du lien.

→ Désactiver le positionnement partagé

Conserve l'emplacement actuel du lien et désactive le paramètre Position partagée.

Annuler

b) ADVANTAGES OF THIS METHOD :

No need to manipulate the project base point and topographic point.

If the linked files are deleted (and not simply unloaded), all you have to do is link them again by choosing the positioning option : TO SHARED LOCATION

B. Why are there two executables, Converter.exe and Configurator.exe?

NEXT-BIM Converter and NEXT-BIM Configurator are two distinct executables, each with its own role in the process of preparing and converting IFC files into NBIM format.

1. NEXT-BIM Converter:

- This is the main tool for converting IFC files into NBIM format.
- It is used to convert raw IFC files into a format compatible with the NEXT-BIM mixed reality environment.
- It converts geometric data, properties and other information required for mixed reality display.
- NEXT-BIM Converter is essential for generating the NBIM file that can be used in NEXT-BIM Configurator.

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2. NEXT-BIM Configurator:

- This is a complementary tool for preparing and configuring the mixed reality immersion experience.
- It offers functionalities such as view configuration, filter customisation, floor management, definition of points of interest, etc.
- NEXT-BIM Configurator makes it easy to prepare the model for optimum immersive viewing in HoloLens or any other compatible device.
- When generating the NBIM file in NEXT-BIM Configurator, NEXT-BIM Converter is called in the background to perform the actual conversion of the IFC files into NBIM format.
- It is important to note that NEXT-BIM Converter should not be deleted as it is required to perform the conversion of the IFC files. The two executables, NEXT-BIM Converter and NEXT-BIM Configurator, work in tandem to provide a high quality immersive experience with the generated NBIM files.

C. Conversion time

The conversion time depends on three factors.

1. Size of the IFC / Navisworks file: As a general rule, the larger the file, the longer the conversion time. This is due to the high number of geometric elements, properties and information to be processed during conversion.
2. Computer performance: A computer with a powerful processor and sufficient memory will allow faster conversion. Higher hardware resources can speed up the conversion process.
3. Generating the minimap : The minimap is a miniature view of the model that can be displayed in NEXT-BIM Configurator. Its generation can influence the conversion time. If you do not wish to view the minimap, you can deactivate this option in the interface settings. To disable minimap generation in NEXT-BIM Configurator, you can follow these steps:

Go to the Configuration tab in NEXT-BIM Configurator.

Select the "Explorer" tab.

Look for the "Generate minimap" option in the interface settings.

Deactivate this option to avoid generating the minimap during conversion.



By deactivating minimap generation, you can convert your NBIM files more quickly. However, please note that this may also limit some of the minimap-related viewing features in NEXT-BIM Configurator.

D. The difference between "Remove Object from output" and "Hide Object"

The difference between the "Remove Object from output" and "Hide Object" options lies in their effect on file viewing and preparation, as well as their impact on immersion. Here is a more detailed explanation:

1. 'Hide Object': This option allows you to hide a specific object when viewing and preparing files in NEXT-BIM Configurator. The hidden object will not be visible during these stages, but when immersed in NEXT-BIM Explorer, the object will be visible. In other words, the object is only hidden in the preparation interface, but is loaded and visible when immersed.
2. "Remove Object from output": This option goes a step further by completely removing the object from the final output. Not only is the object hidden, it is also excluded from the output file (for example, when converted to .NBIM format). This means that when immersed in NEXT-BIM Explorer, the object will not be loaded or visible. It is completely excluded from the immersive experience.

The use of these options depends on your specific needs and the optimisation of your immersion. Here are some common reasons for not loading an object or type of object:


- Performance optimisation: If your IFC file is large and you want to improve the fluidity of the visualisation, you can choose not to load certain objects or object types that are not necessary for your use. This reduces the load on the software and improves overall performance.
- Eliminate clutter : Sometimes there may be objects or parasitic elements in the model that are not relevant to your use or that could disrupt your immersive experience. By removing these objects from the output, you can focus on the essential elements and eliminate unwanted distractions.

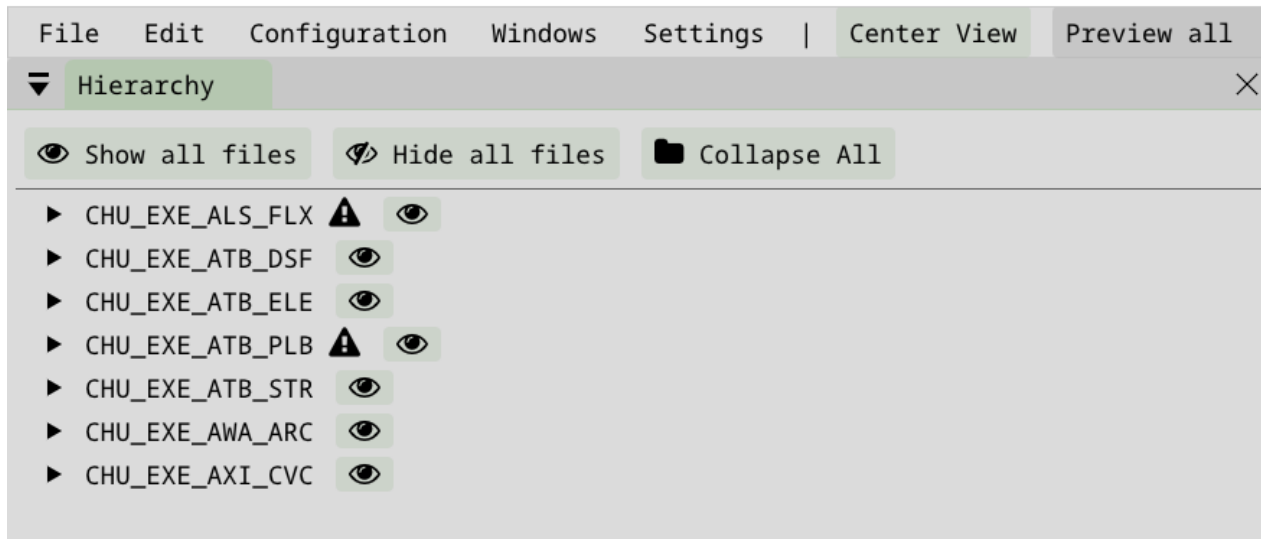
In summary, 'Hide Object' visually hides an object during file preparation, but makes it visible during immersion, while 'Remove Object from output' completely excludes the object from the output, making it invisible during immersion. These options offer flexibility in customising your immersive experience to suit your specific needs



E. Conflit GUID

When you see a black triangle to the right of your files in NEXT-BIM Configurator, this indicates that there are objects with the same GUID (globally unique identifier) in two different files. This GUID conflict can lead to visualisation problems in HoloLens.

 Next-BIM Configurator 2022.1.0



To resolve this problem, you have several options:

- 1) Right-click on the triangle: By right-clicking on the triangle, you have the following options :
 - "Add conflicting objects in this file to selection": This option adds conflicting objects from this file to your current selection.
 - " Add conflicting objects from other files to selection": This option adds conflicting objects from other files to your current selection.

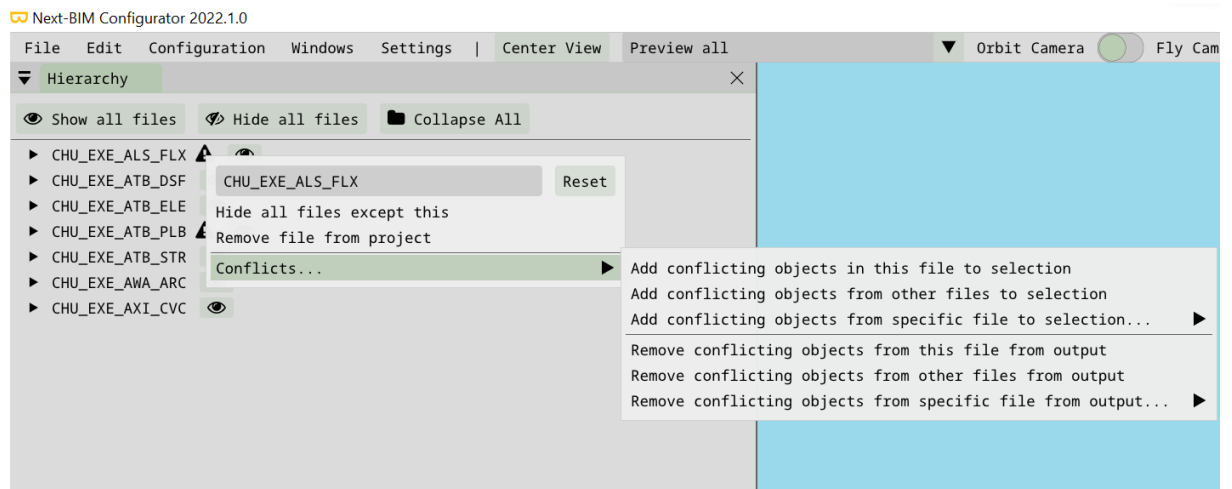
The quickest options for removing conflicting objects from the project are at the bottom:

- Remove conflicting objects from this file from output": This option removes conflicting objects from the project in the file where you right-clicked.
- Remove conflicting objects from other files from output": This option removes from the project the conflicting objects present in the file which is in conflict

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with the one you right-clicked on..



By using these options, you can manage conflicting objects and remove them from the project in order to avoid any visualisation problems in HoloLens. Make sure you take the appropriate action based on your specific needs and the impact it could have on your project.



F. Data exchange

Data generated by NEXT-BIM can be exported in the following formats: BCF (BIM Collaboration Format) and XLSX (Excel file format).

If you wish to work collaboratively and share the data generated, it is recommended that you use BIM management platforms such as BIM Collab, BIM Track, AxeoBIM, Revizto, Kairnial and others. These platforms allow you to assign user rights to the various people involved and share information efficiently.

In these platforms, you can use the viewer functionality to access specific positions in the BCF files produced by NEXT-BIM. In addition, some platforms offer integrated plugins for software such as Revit, facilitating the process of coordination and model verification.

By using these BIM management platforms, you can collaborate more effectively, share the data produced by NEXT-BIM and carry out rapid model recollections. Make sure you choose the platform that best suits your needs and project requirements.

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By using these BIM management platforms, you can collaborate more effectively, share the data produced by NEXT-BIM and carry out rapid model recollections. Make sure you choose the platform that best suits your needs and project requirements.

Some users use the results of checklists or annotations generated by NEXT-BIM to make visual changes to their model. For example, they can assign different colours to elements depending on their status or validation status.

This approach makes it possible to quickly visualise the status of different elements in the model and identify areas requiring particular attention. For example, non-



compliant elements can be coloured red, while validated elements can be coloured green.

This visual method makes it easier to identify problems and helps decision-making when coordinating and checking models. It also makes it easier to communicate status and annotation information to the project team.

However, it is important to note that colouring the model according to the results of checklists or annotations is a functionality that depends on the platform or software used to view the model. You should check whether your platform or software supports this functionality or whether there are specific extensions or plugins for this.

Performing this manipulation with a Dynamo script is a common and powerful approach. Dynamo is a visual programming environment built into Revit that allows users to create custom workflows and automate repetitive tasks.

To colour the model according to the results of checklists or annotations using Dynamo, here are the general steps:

- 1) Retrieve data from checklists or annotations: Using the appropriate Dynamo nodes, you can extract the relevant information from the checklists or annotations generated by NEXT-BIM. This can include statuses, values, comments, etc.
- 2) Identify elements to be coloured: Using the extracted information, you can determine which elements in the model should be coloured based on their attributes or properties. For example, you can search for all non-compliant walls or all validated equipment.
- 3) Apply colouring: Use the appropriate Dynamo nodes to assign colours to the identified elements. This can be done by modifying the graphical properties of the elements, such as the colour of the material or the colour of the line.
- 4) Run the script: Once you have set up the Dynamo script, you can run it to apply the colouring changes to the model.

It is important to note that setting up such a Dynamo script may require an in-depth knowledge of Dynamo, the structure of the data generated by NEXT-BIM and the properties of the model elements. It may be helpful to search for online resources, examples of similar Dynamo scripts or to seek the help of a Dynamo expert to guide you through this process.

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Remember to test the script carefully on a backup copy of your model before applying it to the working model to prevent any unwanted or damaging changes.

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