# MKit Plug-in Manual

For Revit
Version 1.0

# Content

# 1.    Abstract

This document is considered as an instruction for the Plug-in named "MKit" in Revit, there are 4 functions in it, Element Numbering, Remove property value, sheet comparison and sheet creation respectively.

# 2.    Prerequisites

This plug-in is available to the Revit version, 2020 or later, make sure the correct installation.

The installation program is available only to *Windows* with x64 architecture. Make sure the *x64 desktop Runtime* is installed before executing this installation.

This function is available only for xlsx file.

# 3.    Installation

Click *Install.exe* for installation, a window will show as below (Figure 3.1); select target Revit version and installation directory for custom installation; User can leave the setting as default by just clicking *Ok* for default installation.
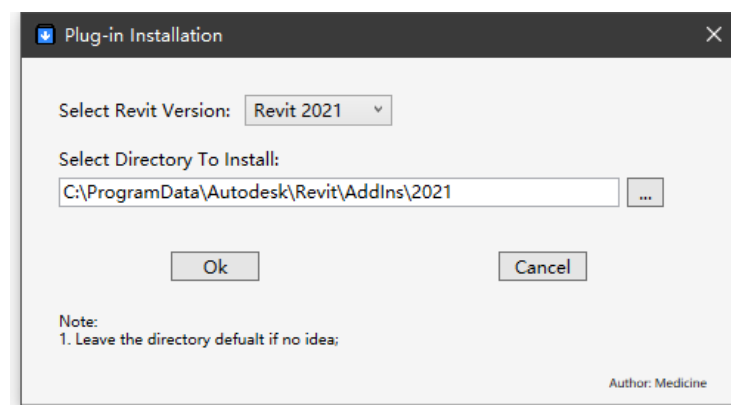


Figure 3.1 Installation window

After installation, user would see the function button on Revit panel in tab MKit as below (Figure 3.2)
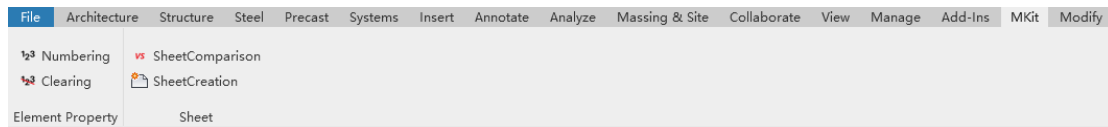
Figure 3.2 Ribbon Panels

# 4. Uninstallation

Click *unInstall.exe* for uninstallation, select which Revit version to implement uninstallation program based on the window (Figure 4.1).
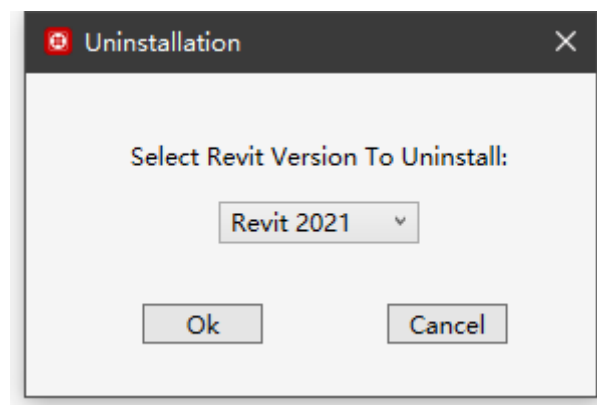


Figure 4.1 Uninstallation window

# 5. Function Introduction

## 5.1. Numbering

Number selected elements in model, the number will be displayed in the selected property value; only property in string format is available. The manipulation flow is as below:

1. Click button to invoke function and select desired elements;

2. After selection, select target property in selection window;

3. Type desired format and select order in the window below (Figure 5.1) to number, only integer is available in the number and spacing block.
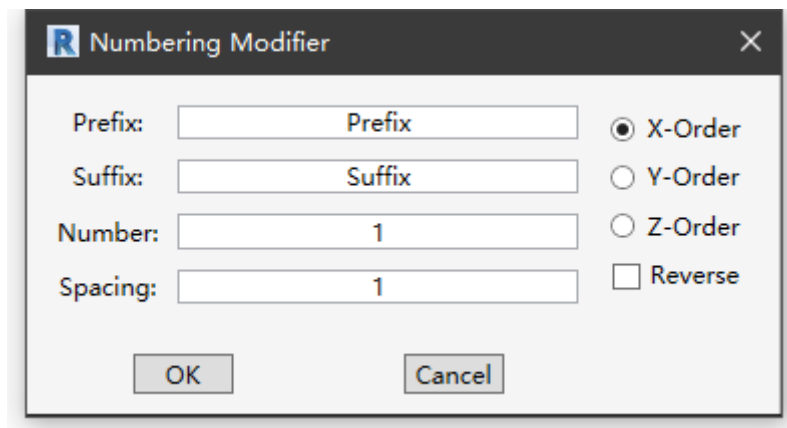
Figure 5.1 Numbering window

The numbering process will number the element based on the coordinate of elements. When finished user can find result in the selected property of element.

## 5.2.    Clearing

This is an advanced function for remove value of properties of elements; user can select multiple properties to remove their value.

## 5.3.    Sheet Comparison

Compare properties, number, name and revision, of sheets in model with desired drawing list table in xlsx file.

The content in xlsx file shall be in the format as below (Figure 5.2), only 3 columns without table head, the columns represent drawing number, drawing title and revision number respectively. Meanwhile, ensure the sheet in model has these mentioned arguments, if not, the comparison would be failed.

Figure 5.2 Correct format

If there is difference between sheets and xlsx file, a xlsx file will be created with name *"Comparison_Result"*, click prompt link to find it (Figure 5.3);
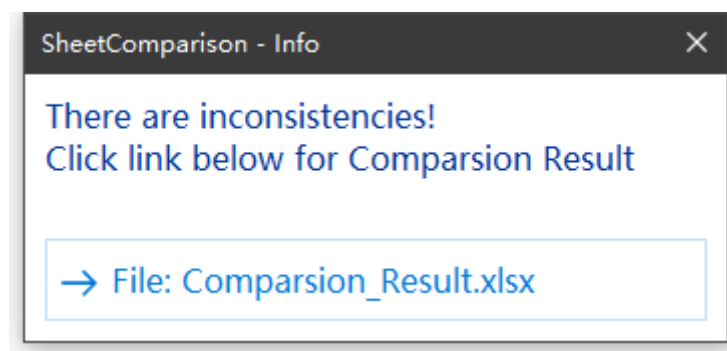


Figure 5.3 Window for comparison result

No file will be created if the comparison finished with no difference.

## 5.4.   Sheet Creation

Batch creation of sheet by input drawing list table in xlsx file; the table shall be with 2 columns, Drawing Number and Drawing Title, without table head as below (Figure 5.4). The manipulation flow is as below:

Figure 5.4 Drawing list table for sheet creation

1. Click button to invoke function and select desired title block in window shown, if no title block is needed, click cancel button and a window displayed of prompt that asks whether to continue process (Figure 5.5);
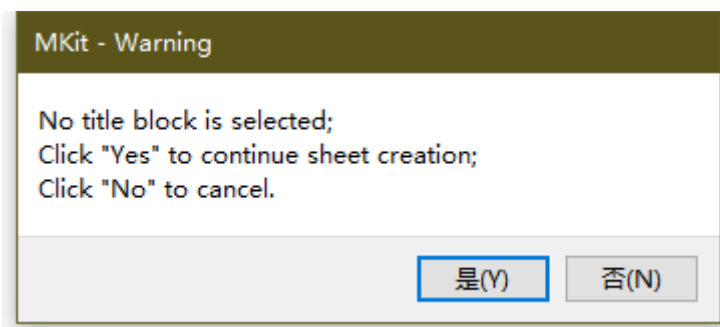


Figure 5.5 Prompt window

2. If a title block is selected or order to continue is given, navigate to the target file for sheet creation.
When finished, check created sheets in project browser window.

# 6.    More Information

This document is updated regularly according to the progress of development of MKit Plug-in.