

Step by Step Guide for Excel file importer

Short Description

Imports values of properties from an Excel file into the currently opened project. The property values of elements in the project will be updated.

This script is the counterpart to the Excel file exporter script (excel_export.py). If you have used that script to export an Excel file and modify its values, then you can import those updated values by using this excel_import.py script.

Files to Download

Python Script

https://graphisoft-my.sharepoint.com/:u:/g/personal/tlorantfy_graphisoft_com/EW_Oj56S_WdEiTcmnyUMIncB08n1GIAkdedxYwi05orA1g?e=3HiM90

Example input Excel file

https://graphisoft-my.sharepoint.com/:x:/g/personal/tlorantfy_graphisoft_com/ERF7Y_Zlu3xAufbvkp11mNcBM1-4LzMF-2IJBA5VXOOy7A?e=aLi0AC

Example ARCHICAD Project

https://graphisoft-my.sharepoint.com/:u:/g/personal/tlorantfy_graphisoft_com/EbYj5EdhH9BPqx7MQjsza3YBQNJVUGjkkglX4zJw4MdK1Q?e=tslri5

Step by Step Tryout Guide

1. Download the Python script.
2. Download the example input Excel file and place it next to the script into the same folder.
3. Download the example project file and open it in ARCHICAD.
4. Run the Python script (from Python Palette or in any external application).
5. The property values will be automatically updated by the script.

Demo Video

https://tprivatenew.s3.amazonaws.com/pulse/tlorantfy-graphisoft/attachments/13774755/excel_import_demo.mp4

Details

Requirements

To execute the script successfully without any customization, the following requirements must be met. See the Customization section to change or eliminate these requirements.

- Input Excel file must be named “BeamAndWallGeometry.xlsx” and placed in the same folder as the script.
- ARCHICAD 24.3003 or above
- ARCHICAD-Python Connection (archicad package) version 24.3003 or above

Customization

Feel free to open the script in any text editor and customize it. Each example script has a well-separated section, named “CONFIGURATION”. Change the values in that section for customization.

```
##### CONFIGURATION #####
```

```
inputFolder = scriptFolder
inputFileName = "BeamAndWallGeometry.xlsx"
#####
```

This table explains the meaning of each variable and values in the configuration section to help customization.

Name of the variable	Description	Default value
inputFolder	The folder which contains the input Excel file.	The folder of the script file.
inputFileName	The name of the input Excel file.	BeamAndWallGeometry.xlsx

The example input Excel file is a modified version of the excel_export.py example script's output. It contains the values of the following built-in properties: element ID, height, width and thickness. In this example file, a few beams' width, some walls' thickness and element ID values have been changed, compared to the example project.

Possible Errors

If the script fails to execute and returns an error, please make sure the script requirements have been met.

[AttributeError: 'Utilities' object has no attribute ...](#)

The version of the currently running ARCHICAD does not meet the requirements, or the version of the installed ARCHICAD-Python Connection is below the required version.

To update the ARCHICAD-Python Connection, open the Python Options from Python Palette and click the Update Connection button.