



DDC REVIT® CONVERTER

community edition

RVT 2015-2024



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without registration



DDC RVT converter allows you to access your Revit® projects and translate this data into popular and open format XLSX. Using the converter, without running Autodesk® tools and without using the Internet (without third-party libraries and plugins), we extract project data from RVT files and present the Revit database as a structured Excel table, where each row represents a specific project element (with its own identifier), and columns represent related properties and parameters.

**POST-CONVERSION
DATA PROCESSING
IN A LARGE NUMBER
OF TOOLS**



Excel



PowerBI



Sheets



Google Colab



Python



Kaggle



Pandas



ChatGPT



Requirements:

- Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
- Internet Connection: Not required
- Independence: No reliance on Forge or other CAD (BIM) Tools



If you encounter any issues, have feedback, or ideas for improvement, feel free to send an email to info@datadrivenconstruction.io

OPTIONS FOR USING THE DDC CONVERTER



To extract data from REVIT®, the **simplest tool is the DDC UI converter**.

Start the conversion for RVT projects by specifying a folder with one or several RVT files. There's also an option to include files from subfolders .

Click the "Start" button to begin conversion. The results, Excel files with complete REVIT® file information, will be available in the specified folder.

The **DDC terminal-based converter** quickly extracts data from REVIT® RVT with minimal code.

To initiate the conversion in any folder, open Command Prompt or PowerShell , and simply enter the path of the folder containing the DDC converter, followed by the path of the file to be converted .

```
1. # CMD or PowerShell
2. > C:\DDC\RvtExporter.exe C:\Example.rvt
```

2 TERMINAL APPLICATION



3 BATCH CONVERSION



DDC Bulk Conversion

For handling large datasets simultaneously and automated processing

Enables conversion and management of substantial data volumes or integration of the conversion process into workflow and data processing logic

Examples and ready-made code for stream processing can be found in the "DDC_Pipelines" folder

```
1. import os
2. import subprocess
3. # Path to folder with RvtExporter.exe converter
4. path_conv = r'C:\DDC_2023\\'
5. # Path to folder with RVT projects
6. path = r'C:\RevitProjects\\'
7. def convert_and_wait(path_conv, exporter_name, file_path, extension):
8.     subprocess.Popen([os.path.join(path_conv, exporter_name), file_path], cwd=path_conv)
9.     output_file = os.path.join(path, f"{os.path.splitext(file)[0]}_{extension}.xlsx")
10.    while not os.path.exists(output_file):
11.        time.sleep(0.5)<br>
12.    # Conversion process from RVT and IFC
13.    for file in os.listdir(path):
14.        full_path = os.path.join(path, file)
15.        if file.endswith('.rvt'):
16.            convert_and_wait(path_conv, 'RvtExporter.exe', full_path, 'rvt')
```

Description of Standard, Basic, Full, and Custom Categories in DDC_Revit_Converter in Excel plugin

Export Mode

- Basic (Fast)
- Standard (Moderate)
- Complete (Slow)
- Custom

In this categorization system for Revit, we distinguish between Standard, Basic, Complete, and Custom categories to provide users with accurate and flexible data conversion options, allowing data extraction from Revit at varying speeds and levels of detail.

309 Categories



Basic Categories: This subset consists only of items without the `##` prefix, automatically excluding any prefixed with `##`. This selection allows for more streamlined and faster data processing by focusing solely on core elements.

724 Categories



Standard Categories: These include all listed items, both with and without the `##` prefix. This comprehensive approach ensures no categories are omitted, offering maximum detail and flexibility during data conversion.

1209 Categories



Complete Categories: This category encompasses all available data points, providing the broadest data extraction for projects that require a high level of detail and completeness.

Custom Categories: Users can define this set through a customizable list. In the folder with the converter, there is a file in `datadrivenlibs` folder named

`DDC_Custom_Categories_to_Convert.txt`, where categories can be specified line-by-line, such as:

`OST_Rooms`
`OST_Walls`

A list of all the built-in categories in Revit:

<https://www.revitapidocs.com/2024/ba1c5b30-242f-5fdc-8ea9-ec3b61e6e722.htm>

In the UI and Excel interface, radio buttons are available for category selection. To use custom categories through the console, you need to specify the custom argument:

`.\RvtExporter.exe sample.rvt custom`

You can also specify a different .txt file by providing its path:

`.\RvtExporter.exe sample.rvt custom /path/to/categories.txt`

If no file is specified, the system will default to using

`DDC_Custom_Categories_to_Convert.txt`

This flexible system ensures that users can tailor their data extraction process to their specific project needs, balancing speed, precision, and detail.



Use data from Revit® projects in an unlimited number of tools



Microsoft Excel

A leading spreadsheet software that allows you to open, edit, and analyze XLSX files. It offers extensive features for data manipulation, analysis, and visualization.



ChatGPT with Python Integration

This setup allows ChatGPT to use Python libraries like Pandas for handling XLSX files. Users can interact with and manipulate data in XLSX format through conversational commands, making it user-friendly for data analysis and visualization tasks.



Power BI (Microsoft)

This business analytics tool not only imports XLSX files but also enables users to transform and model their data, creating interactive dashboards and reports that can be shared across an organization for insightful decision-making.



Jupyter Notebooks

An open-source web application that supports data cleaning and transformation, numerical simulation, statistical modeling, data visualization, and more. It can work with XLSX files through Python libraries like Openpyxl.



Kaggle cloud-based work environment

It allows users to write and execute Python code, and it supports various Python libraries, including Pandas, for reading and writing XLSX files. Kaggle is widely used for data analysis and modeling, and it's an excellent platform for collaborative projects and learning from a community of data scientists.



Pandas (Python Library)

A powerful data analysis and manipulation library for Python. Pandas can read and write DataFrames to and from XLSX files using its `read_excel` and `to_excel` functions.

Comparative Analysis Structured Data

| Feature | Structured Data (XLSX, CSV, DF) | closedBIM and openBIM Tools (e.g., Revit) |
|---------------------------|---------------------------------|---|
| Reporting & Visualization | High | Moderate |
| Customization | High | Moderate |
| Data Analysis | Robust | Limited |
| Industry Acceptance | Broad | PEC |
| Learning Curve | Moderate | Steeper |
| Automation & Scripting | Yes (VBA & Macros) | No |
| External Data Integration | High | Moderate |
| Cost Efficiency | High | Higher |
| Add-ons & Extensions | Wide Range | No |
| Collaboration & Sharing | High (M365) | Structured Environment |
| Accessibility | Widely Accessible | Specialized Access |

Advantages of switching from to in data processing

Wide Accessibility

Quick Reporting and Visualization

Data Analysis Capabilities

Broad Acceptance

Flexibility and Customization

Ease of Training and Adoption

Automation and Scripting

External Data Integration

Cost Efficiency

+ Wide Range of Add-ons

Collaboration and Sharing





Plugin version with latest format versions and
no ads after the conversion process

BUY Pro Plus

Revit® (RVT) 2015–2025

Number of files not limited

Max. size unlimited

Lifetime

Support

No Ads