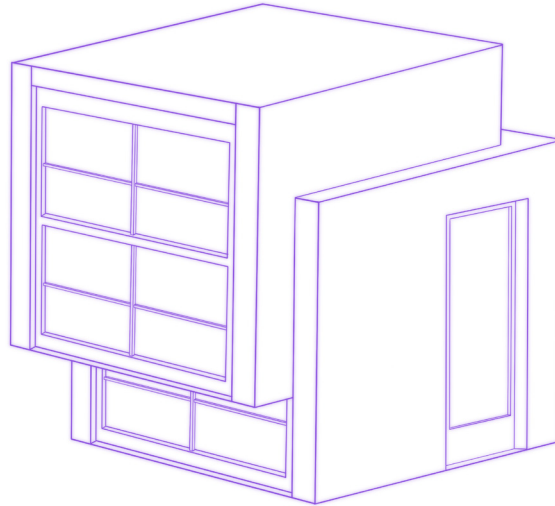




REVIT PURE TEMPLATE GUIDE

BASICS TEMPLATE GUIDE



Template Version 5.0 - October 2022

POWERED BY:



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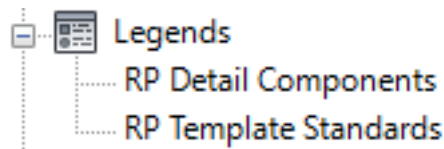


The Revit Pure BASICS template is conceived for architects, builders and designers. We modified the default Revit template to create a beautiful, lean, simple and efficient document that is used and loved by hundreds of users. The default font is **Swiss721 Cn BT**, which is more cute than Arial.

Eventually, you will have to adapt this template to fit your own needs.

You can replace all RP values in the template by the abbreviation for your office name. Then, modify the title blocks to add your own logo.

The first thing to do in the template is to have a look at the legends views.



The **RP-Template Standards** view contains all lines, regions, tags and other families in the template.

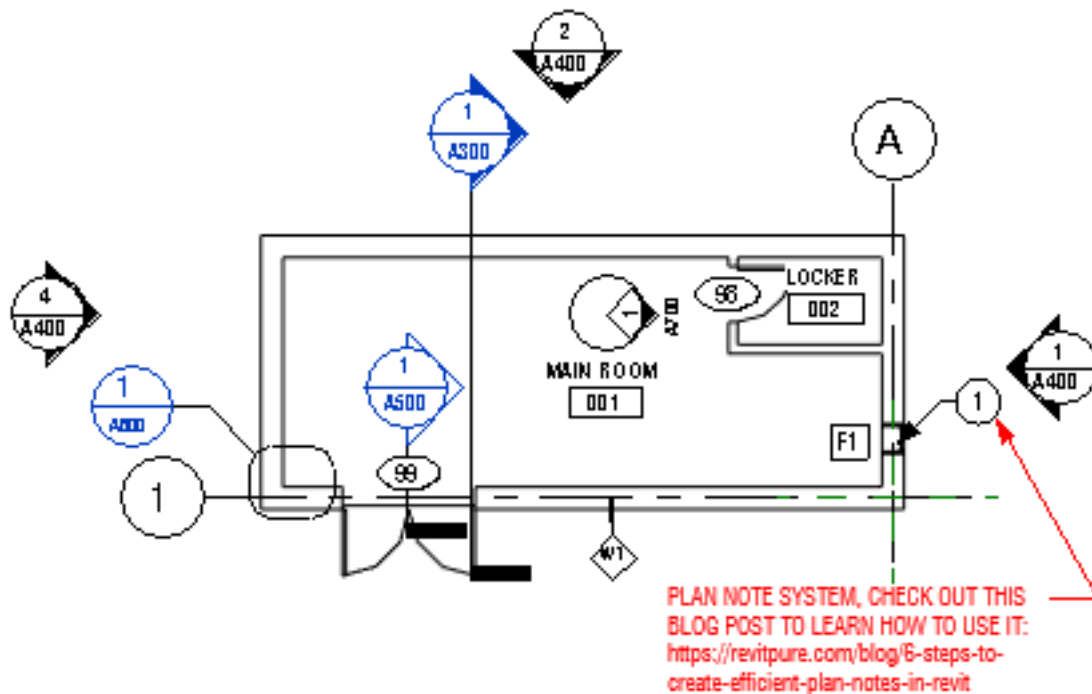
The **RP-Detail Components** contains a few detail items that you can use in 2D detailing views.

This guide explains how this template is built. Good luck.



DEFAULT BUILDING

When opening the Level 1 floor plan, you will see a default building. It was created so you can see some of the tags and dimensions used in action. Of course, you can delete these elements when starting a new project.

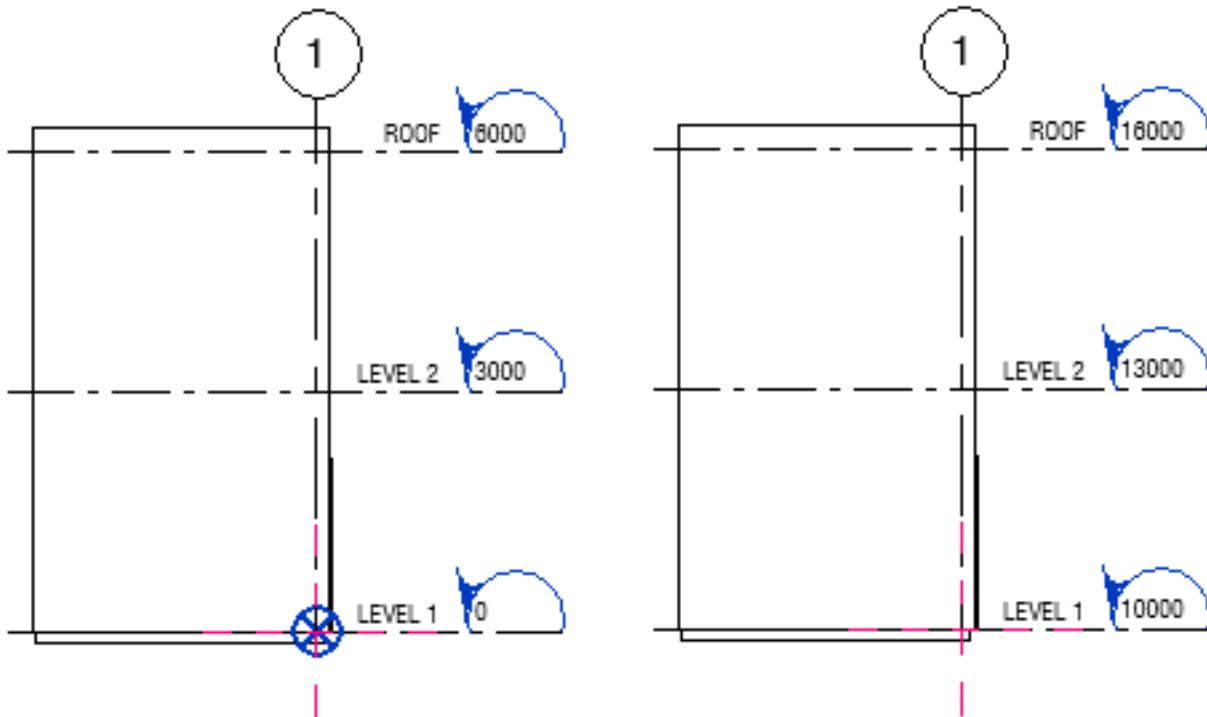




LEVEL 1 HEIGHT

In the template, Level 1 is set to 0mm (0'-0") by default.

Would you prefer to have it set to 10 000mm (100'-0")? Simply go to an elevation view. Unclip and unpin the **Project Base Point** and move it vertically until Level 1 has the value you want to use.



**MOVE UNCLIPPED PROJECT BASE POINT TO
ADJUST LEVEL 1 DEFAULT HEIGHT**



STANDARD PREFIX

One of the first thing you will notice when opening the template is that everything is named with the **RP** prefix. Why even do that? The reason is to keep your template clean. Every time there is a foreign element loaded in your project, it will be obvious since it's name will be random.

You should replace this **RP** prefix by your own office standard prefix. That should take you 1 hour or so, but it will help you get familiar with the content inside the template.

- +... RP_TAG_Wall-Type
- +... RP_TAG_Window
- +... RP_TB_A0
- +... RP_TB_A1
- +... RP_TB_A3
- +... RP_TB_A4
- +... RP_TB_ArchA-Letter
- +... RP_TB_ArchB-11x17
- +... RP_TB_ArchD
- +... RP_TB_ArchE
- +... RP_TB_Welcome_Page
- +... RP_VIEW_Callout Head
- +... RP_VIEW_Elevation Mark Body Exterior



FAMILIES ORGANIZATION

The default Revit template family organization is a mess. It's almost impossible to tell from a family name what it is actually doing. We fixed this issue by giving the RP prefix as well as another prefix indicating the family type. We also try to avoid spaces in family names.

Here is the full list of special prefix with an example for each case:









Annotation Symbols:	RP_ANN_Plan-Note.rfa
Detail Components:	RP_DT_Glass.rfa
Doors:	RP_DOOR_Simple.rfa
Profiles:	RP_PRL_Gutter-Bevel.rfa
Railings:	RP_RAI_Baluster-Steel.rfa
Site:	RP_SITE_Parking-Space.rfa
Tags:	RP_TAGS_Window.rfa
Title Blocks:	RP_TB_ArchE.rfa
View Symbols:	RP_VIEW_Section-Tail.rfa
Windows:	RP_WIN_Fixed.rfa

When you start modifying this template with your own standards, you can replace the RP prefix by your own office prefix.



MATERIALS

In addition to default materials, this template includes additional useful and beautiful materials. As you will notice, all materials contain the prefix RP which you can rename to fit your office standards. Be careful: every time you load an external family, all the embedded materials will be added to this list. Make sure to keep your materials clean.

	RP-Chromed Steel
	RP-Ceiling Tiles 610 x 610
	RP-Ceiling Tiles 610 x 1220
	RP-Carpet
	RP-Brown Steel
	RP-Brick
	RP-Architectural Block
	RP-Aluminum

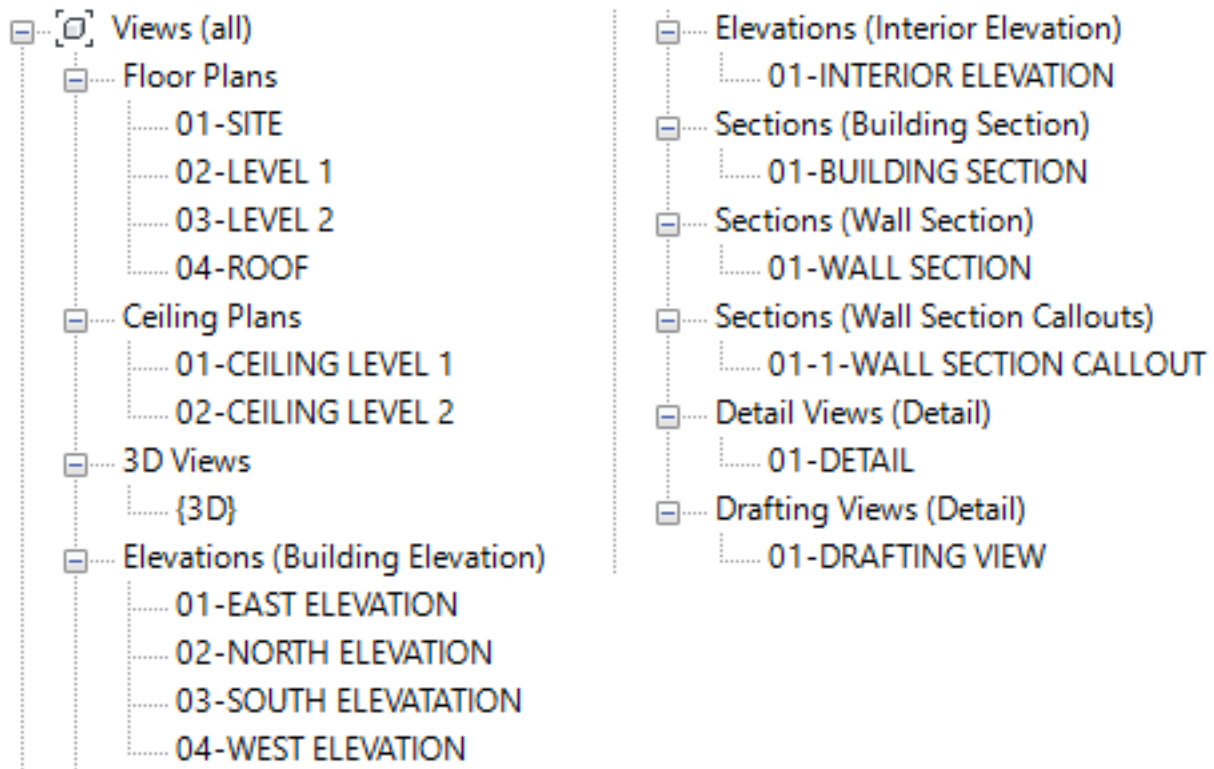


VIEWS ORGANIZATION

We created a few additional view types that are used by most users. This includes **Interior Elevation, Wall Section, Wall Section Callouts**.

By default, the view names are numbered. This is a great way to keep your views organized and we recommend you to keep this technique when creating views.

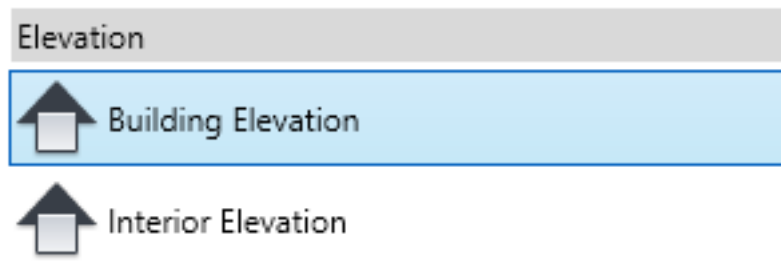
Each Wall Section Callout has two numbers: one referring to the original wall section and another one referring to the detail number for that wall section.





INDEPENDENT VIEW TEMPLATES

When creating views, make sure to select the correct view type. For example, when creating elevations, you can pick between **Building Elevations** and **Interior Elevations**. Each has a different view setting applied and will be categorized separately in the project browser.



In this template, view templates are used for all new views. However, the new views are **not dependent** on template by default. That means you can change the view settings without problems. That is the best option for beginners, but more advanced users might prefer to make views dependent on template for better uniformity and control.

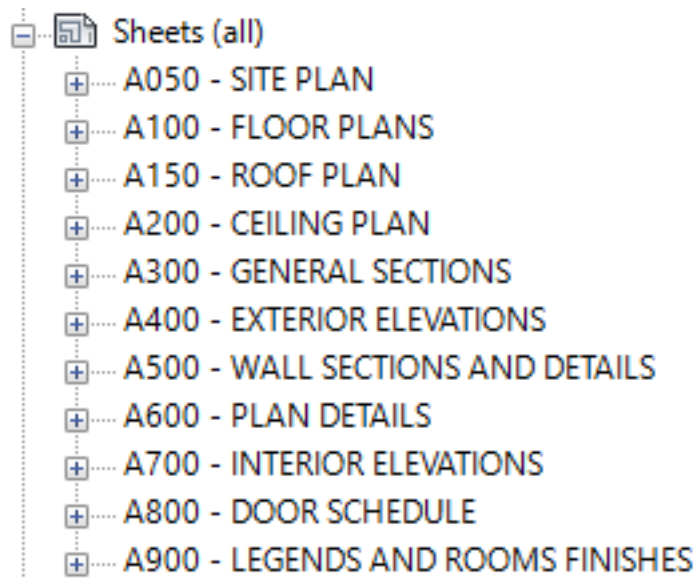
Identity Data		⌆
View Template applied to new views	RP-Plan View 1-100	
New views are dependent on template	<input type="checkbox"/>	



SHEETS ORGANIZATION

We created a sheet numbering that fits the most popular scheme we saw around multiple architecture firms. Of course, feel free to rename them to fit your office standards.

Most views are already placed into the sheets.




There is additional sheets. **X1 - WELCOME PAGE** will open every time you open the project. **X2 - ALL TITLE BLOCKS** contains all the RP title blocks available by default.





WELCOME PAGE

Revit has the option to use a **Starting View**. This is helpful to get everyone to see the same thing when they open a project. The Starting View in this template is the sheet called X2 - WELCOME PAGE. It contains a title block with all sorts of useful information like project name, project number, address, contacts, etc. It also contains a “communications” space where you can type friendly messages to your colleagues.

 revitpure.com	COOL HOUSE PROJECT	PROJECT NUMBER 46481
<u>TEAM COMMUNICATION</u> 57 WARNINGS: WATCH OUT GRID D HAS BEEN DELETED	<u>CONTACT NAMES</u> BOBBY SMITH (STR ENGINEER): 573-491-6464 JOHN VAN WANDERKINDEN (CLIENT): 573-431-9431	<u>PROJECT INFORMATION</u> INSANE CORPORATION 4848 JOHN STREET

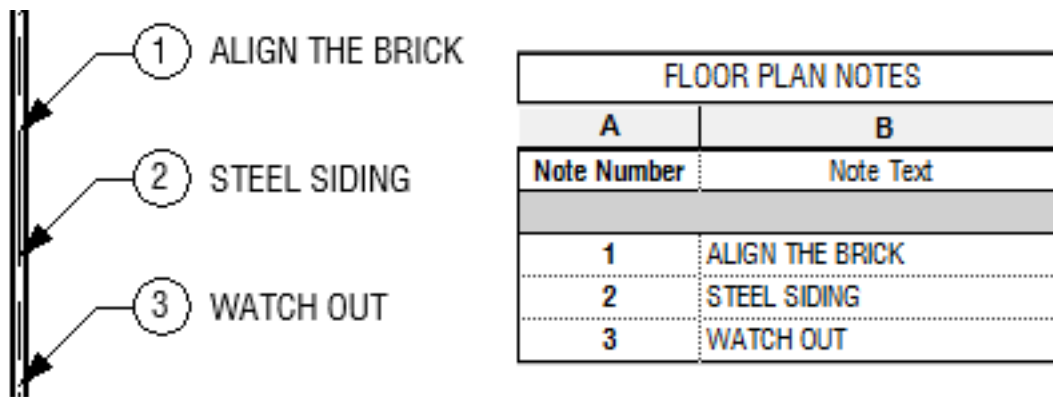


PLAN NOTE SYSTEM

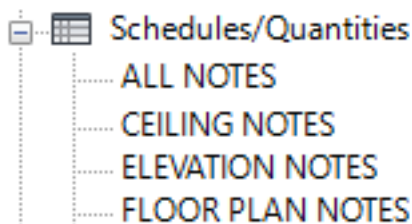
The template includes the plan note system described in this blog post:

<https://revitpure.com/blog/6-steps-to-create-efficient-plan-notes-in-revit>

This includes a family called **RP_ANN_Plan-Note.rfa**.



It also includes 4 default Revit schedules to go along the note family: **Floor Plan** notes, **Ceiling** notes, **Elevation** notes and **All** notes. There is a default note created for each view type and placed on the views. These schedules are already placed on sheets A100, A200 and A400.

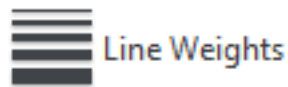


FLOOR PLAN NOTES	
NO.	DESCRIPTION
1	WINDOW PLAN NOTE



LINE WEIGHTS

The lineweights in the default Revit template are a little too light. Also, they use different thickness for different scales, which from our experience is useless and confusing. We made the Line Weights a little heavier, which produce drawings with more hierarchy.



	1 : 50	1 : 100	1 : 200		1 : 50	1 : 100	1 : 200
1	0.1800 mm	0.1000 mm	0.1000 mm	1	0.1000 mm	0.1000 mm	0.1000 mm
2	0.2500 mm	0.1800 mm	0.1000 mm	2	0.2200 mm	0.2200 mm	0.2200 mm
3	0.3500 mm	0.2500 mm	0.1800 mm	3	0.3500 mm	0.3500 mm	0.3500 mm
4	0.5000 mm	0.3500 mm	0.2500 mm	4	0.5000 mm	0.5000 mm	0.5000 mm
5	0.7000 mm	0.5000 mm	0.3500 mm	5	0.7000 mm	0.7000 mm	0.7000 mm
6	1.0000 mm	0.7000 mm	0.5000 mm	6	1.0000 mm	1.0000 mm	1.0000 mm
7	1.4000 mm	1.0000 mm	0.7000 mm	7	1.4000 mm	1.4000 mm	1.4000 mm


















DEFAULT LINEWEIGHT **ADJUSTED LINEWEIGHT**



LINESTYLES

The linestyles in the default Revit template are boring. We created a linestyle for each thickness value instead of the usual, confusing Light Line, Medium Lines, Heavy Lines you get in the default.

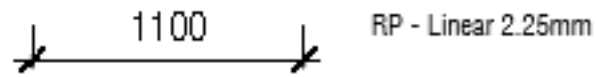
Also, we added lines that are extremely useful for either detailing or to use as guides when modeling. For example, we like to use RP-1-Red as a “working line” to establish a 2D layout before modeling actual 3D elements.

	RP-1-Blue		1 - 0.10mm
	RP-1-DashedGreen		2 - 0.22mm
	RP-1-Grey		3 - 0.35mm
	RP-1-Membrane		4 - 0.5mm
	RP-1-Red		5 - 0.7mm
	RP-2-DashedPurple		6 - 1.0mm
	RP-3-Membrane		7 - 1.4mm
	RP-5-DashedRed		8 - 2.0mm
			9 - 3.0mm

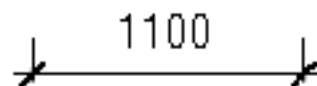


DIMENSION STYLES

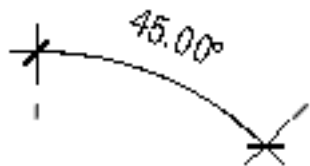
Here are the default dimension styles used in the template.



RP - Linear 2.25mm



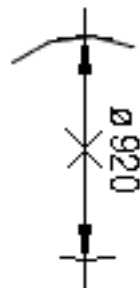
RP - Linear 3mm



RP - Angular 2.25mm



RP - Radial 2.25mm



RP - Diameter 2.25mm



TEXT TYPES

Here are the default text types used in the template. The font used for all text is Swiss721 Cn BT, which is included with Windows.

RP 1.7mm Swiss

RP 2.4mm Swiss

RP 2.4mm Swiss Red

RP 2.4mm Swiss Bold

RP 5mm Swiss

RP 5mm Swiss Red

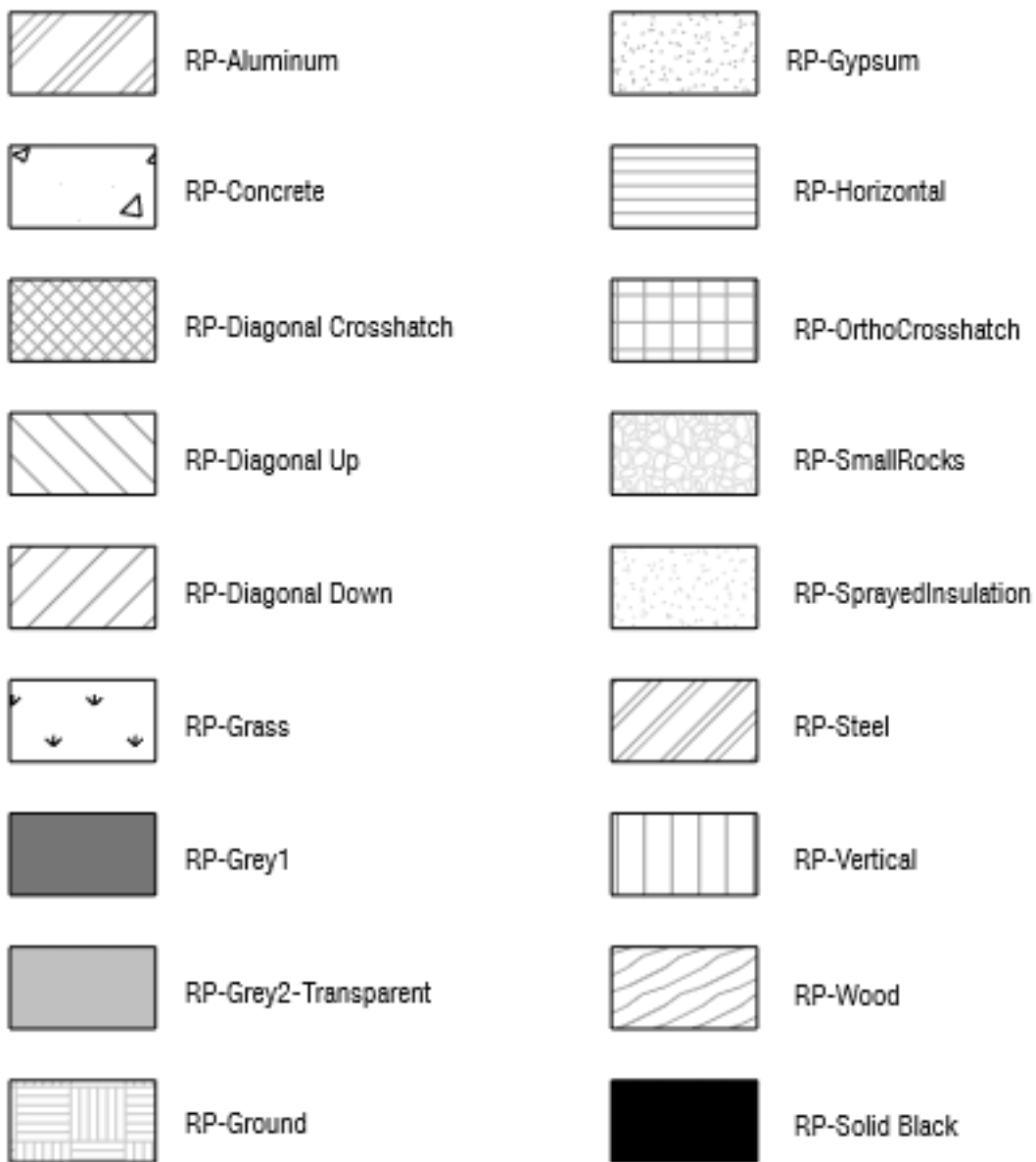
RP 5mm Swiss Bold

RP 10mm Swiss Bold



REGION TYPES

Most of these regions are based on the default template, but we also added a few regions that were popular and useful for users.





TAGS

The default tags families were certainly lacking, so we added many new tags that were the most used by users. The multi-category tag indicates the type mark, which can be useful for most model elements.

<u>AREA NAME</u> 150	AREA TAG
CEIL-1	CEILING TAG
XXX	DOOR TAG
?	KEYNOTE TAG
?	MATERIAL TAG
XX	WALL TAG
R1	REVISION TAG
<u>ROOM NAME</u> XXX	ROOM TAG
1t	WINDOW TAG
XX	MULTI-CATEGORY TAG (TYPE MARK)



DETAIL COMPONENTS

The template includes a few popular, easy to use detail components. You will find them all in the view RP Detail Components.

DETAIL COMPONENTS



PLYWOOD



RIGID INSULATION 25mm



RIGID INSULATION 38mm



GLASS



BRICK



METAL STUD SECTION



METAL STUD PLAN



METAL FURRING

REPEATING DETAILS

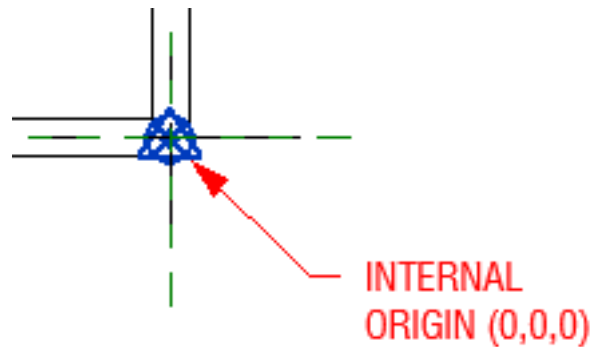


BRICK



INTERNAL ORIGIN

Did you know Revit includes a secret internal origin coordinate? This origin is invisible. By default, all imported and exported CAD files will be made relatively to this origin. In the RP template, the location is indicated in the site view and in the elevation view by reference planes and red text. It intersects grids A and 1 and the height is set to Level 1. **Note:** In Revit 2021, the Internal Origin now has a marker, so the reference planes are not necessary.



RED TEXT ANNOTATIONS

To help you navigate the template, we added a few red text annotation guidelines. Once you are comfortable, feel free to delete these texts.

LEVEL 1									
99	001		P1	2100	1800				
98	001	002	P2	2134	750	DOOR MAT1	1H	FR. MAT1	F1

AUTOMATIC NUMBERS

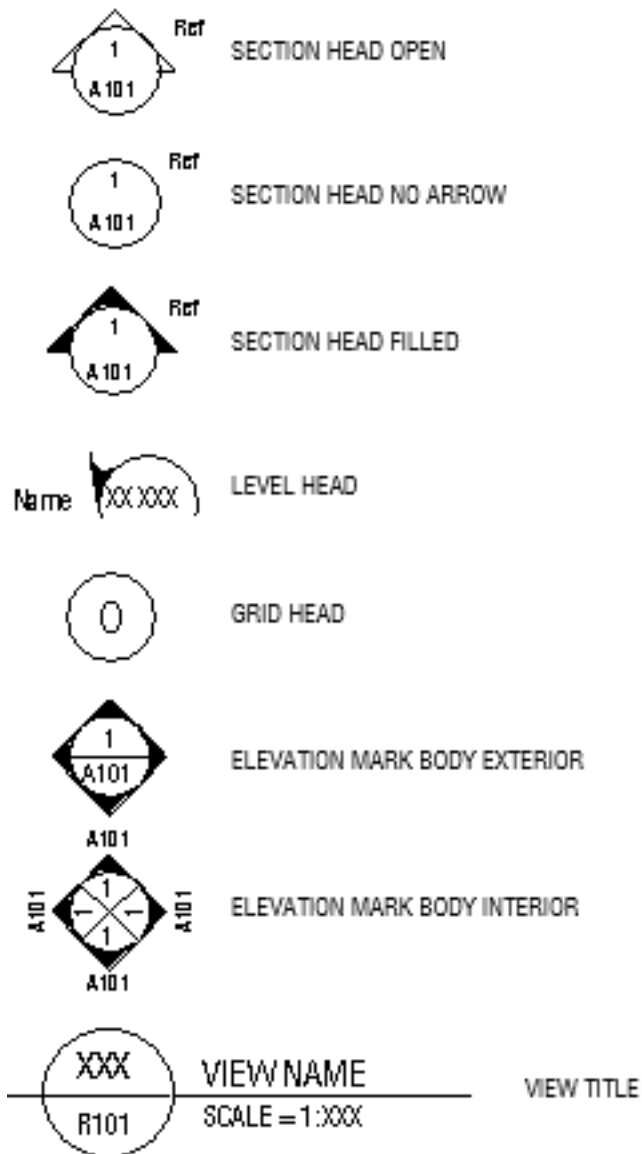
TYPE PARAMETER

TYPE PARAMETER



VIEW SYMBOLS

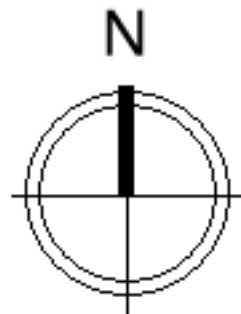
The view symbols have been revamped to be beautiful and efficient.



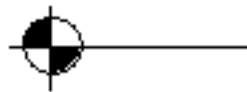


OTHER SYMBOLS

Here are some additional annotations families.



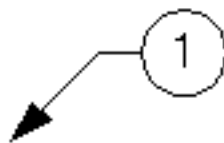
NORTH ARROW



SPOT ELEVATION



CENTRELINE



PLAN NOTE



WHAT'S NEXT?

This template fixes many glitches and annoying features of the default Revit template. You can use it as is for your first few projects. Eventually, you will probably have to start customizing and integrating your own content inside this template. Make sure to always keep your template lean and efficient. If necessary, keep a separate Revit container file with additional families, drafting views, wall compositions, etc.

Any questions? Any comments? Please contact me:

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ABOUT THE AUTHOR

Nicolas is an architect, BIM specialist and founder of the website revitpure.com. He started using Revit in 2011 and quickly became passionate about BIM.

Nicolas worked at Atelier 21 Architects for almost ten years, where he participated as a designer and BIM manager on multiple large-scale projects.

In 2021 he went full-time on his business, BIM Pure Productions, where he teaches Revit and acts as a BIM consultant for a wide variety of AEC firms.

Nicolas teaches a BIM optimization course at Limoilou College in Quebec City, Canada. He also spoke at multiple conferences, including Autodesk University and BILT. In addition, Nicolas hosts the Revit Pure Live show, a weekly YouTube streaming event where BIM experts share their expertise on specific topics.

