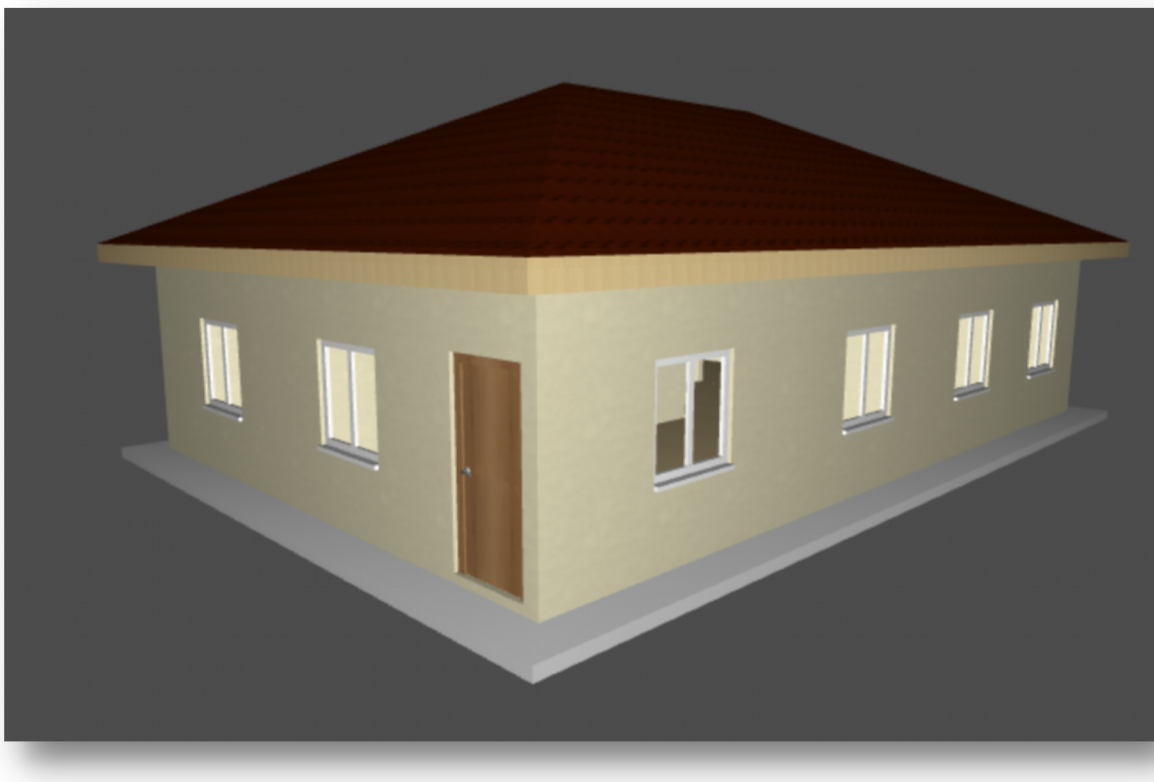
TiffinBIM v.12

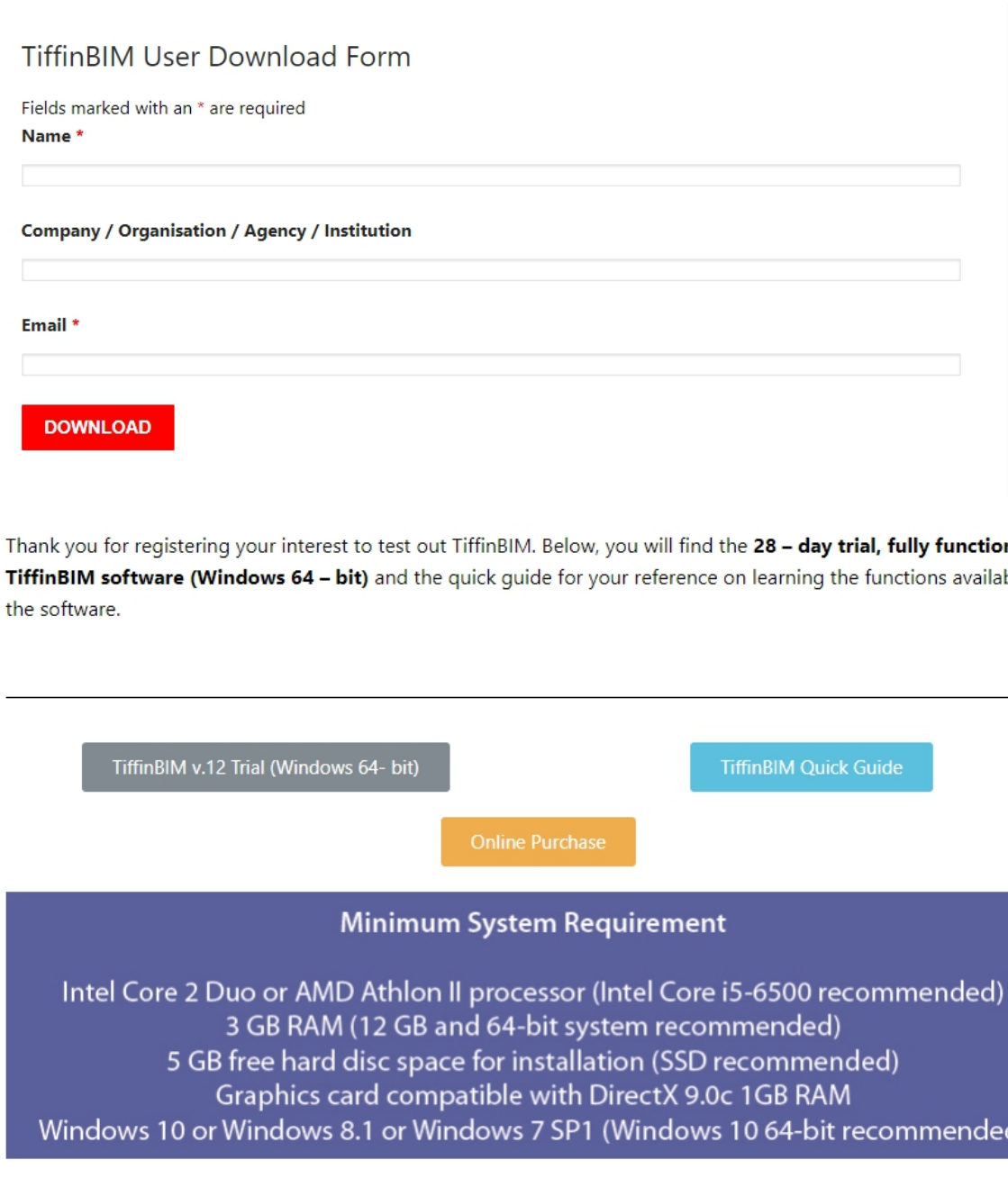
Quick Guide

Draw, Calculate, Present, Amend. Easy.

Try these steps and join our training for full tips and tricks.



SETTING-UP SOFTWARE FOR TRAINING



TiffinBIM User Download Form

Fields marked with an * are required

Name *

Company / Organisation / Agency / Institution

Email *

DOWNLOAD

Thank you for registering your interest to test out TiffinBIM. Below, you will find the **28 – day trial, fully functional TiffinBIM software (Windows 64 – bit)** and the quick guide for your reference on learning the functions available in the software.

TiffinBIM v.12 Trial (Windows 64- bit)

TiffinBIM Quick Guide

Online Purchase

Minimum System Requirement

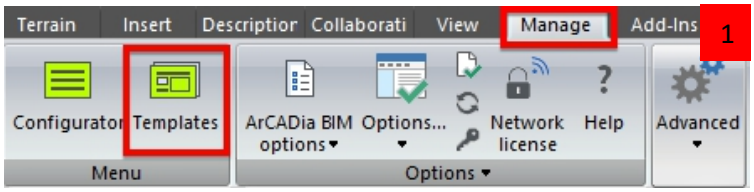
Intel Core 2 Duo or AMD Athlon II processor (Intel Core i5-6500 recommended)
3 GB RAM (12 GB and 64-bit system recommended)
5 GB free hard disc space for installation (SSD recommended)
Graphics card compatible with DirectX 9.0c 1GB RAM
Windows 10 or Windows 8.1 or Windows 7 SP1 (Windows 10 64-bit recommended)

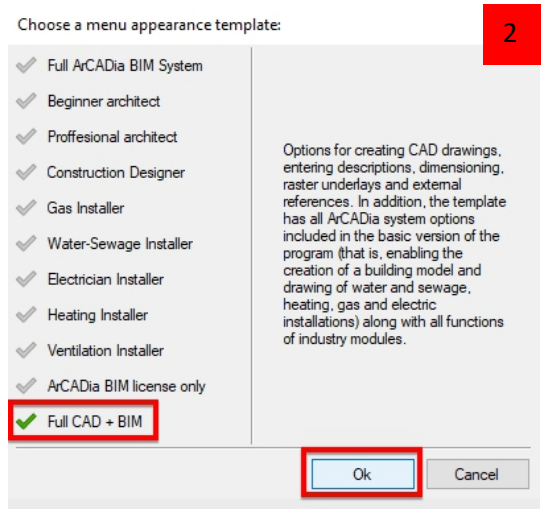
DESCRIPTION

We will be using a free 28-day trial version of a lightweight and IFC-compliant BIM software, TiffinBIM.

1) Go to **https://www.innovacia.com.my/tiffinbim/**
2) Fill up the registration form to **download** your **free trial**
3) Check the **Minimum System Requirement** of your PC
4) Click the grey bar to download **TiffinBIM v.12 (64 bit)**
5) **Follow the download instructions and run** the software

SETTING-UP FOR VERSION 12





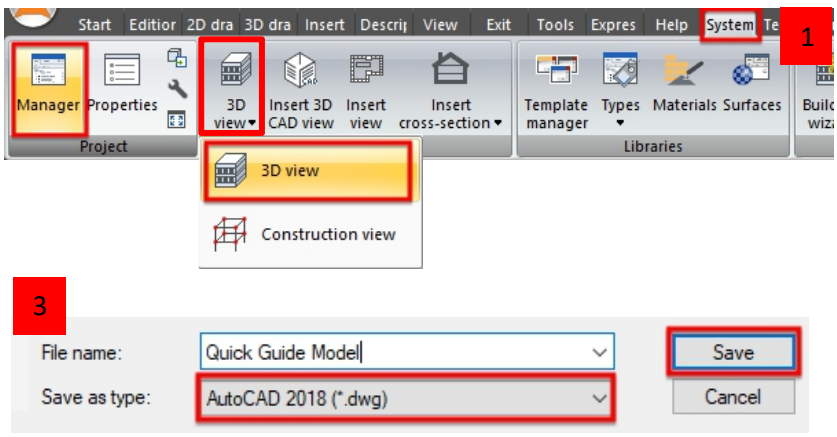
DESCRIPTION

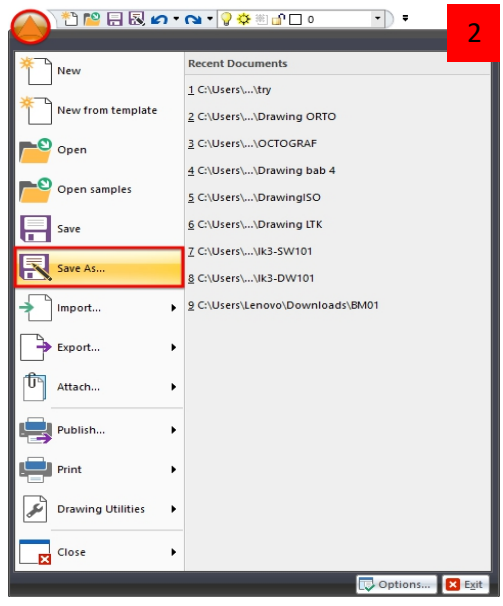
If you are using TiffinBIM Version 11.2 and 12 for this training module, you have to set the software at **Full CAD + BIM** mode. Please follow these steps:-

1) At **Manage Ribbon**, Click **Templates.**
2) At choose a menu appearance template, tick **Full CAD + BIM** and then Click **'OK'.**
3) The Ribbon are now changed to the full tools.

Note: If you are using the older Version 11.0, you can straight away proceed with the training.

SETUP AND CREATING NEW PROJECT

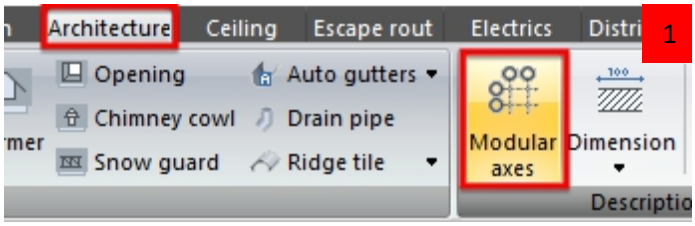




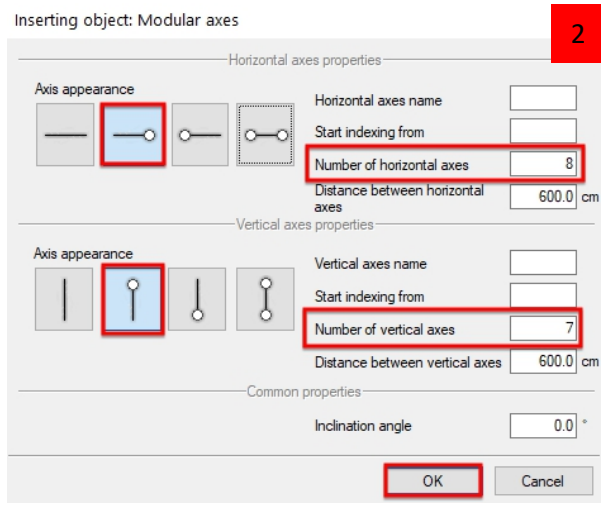
DESCRIPTION

1) Open **Project Manager** at **System Ribbon**
2) Open **3D View** at **System Ribbon**
3) To save the project, click on the **File Tab** and select **Save As**
4) Change **File Name** to **Training BIM modelling**, Save as type **AutoCAD 2018 (*dwg)**

CREATING GRID LINE



1



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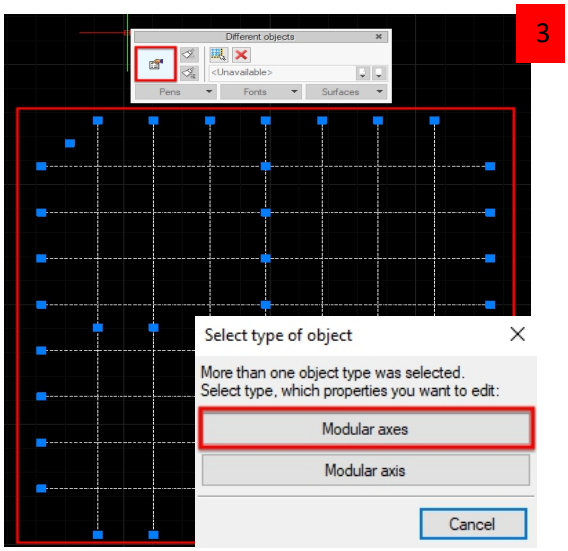
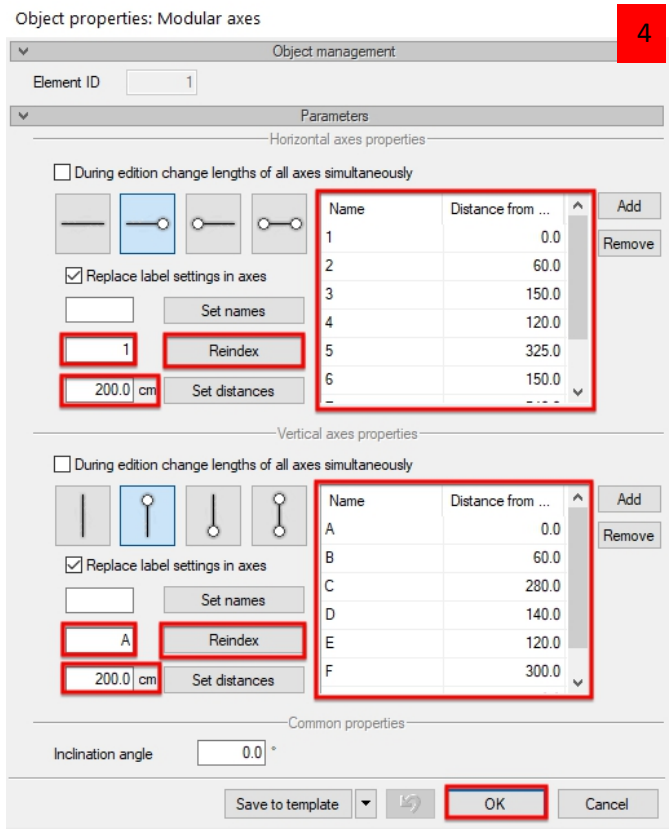


3

Horizontal		Vertical	
1	0	A	0
2	600	B	600
3	1500	C	2800
4	1200	D	1400
5	3250	E	1200
6	1500	F	3000
7	5400	G	600
8	600		
Dimension in mm			

A



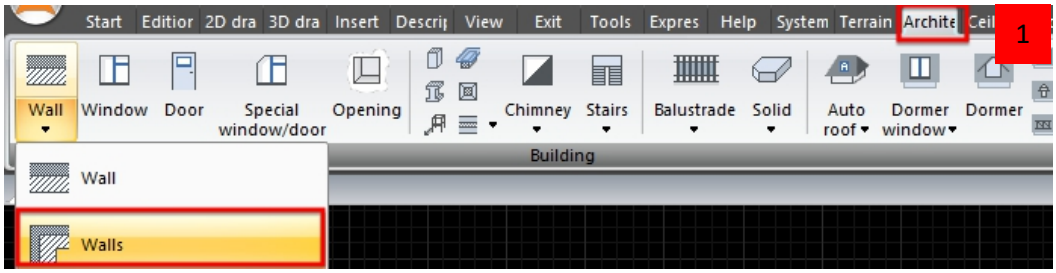
4

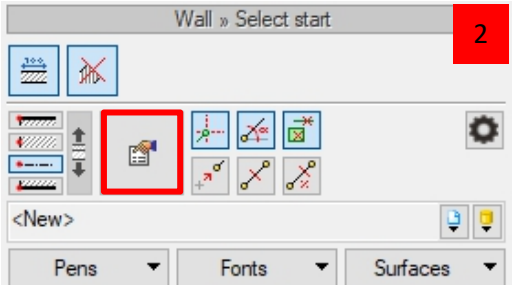
DESCRIPTION

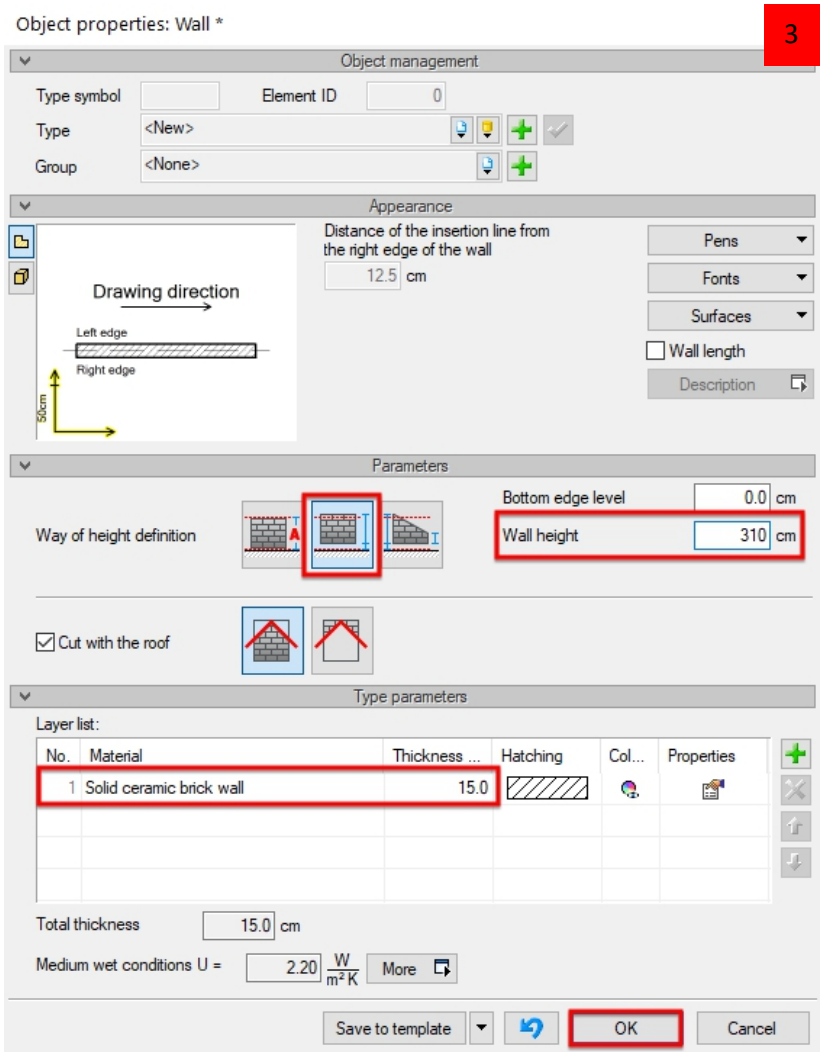
1) At **Architecture ribbon**, click **Modular Axes**
2) On the **Inserting Object: Modular Axes**, insert according to the information following **Diagram 2** and insert to **Drawing Area**
3) Select the grid line, on **object insertion** click the **Go To Object Properties**. Next is on **Select Type of object**, click **Modular Axes**
4) On **Object Properties**, modify according to the information following **Diagram A** and then click **OK**

***You can refer Appendix A for insert the modular axes.**

WALL MODELLING







Wall

A

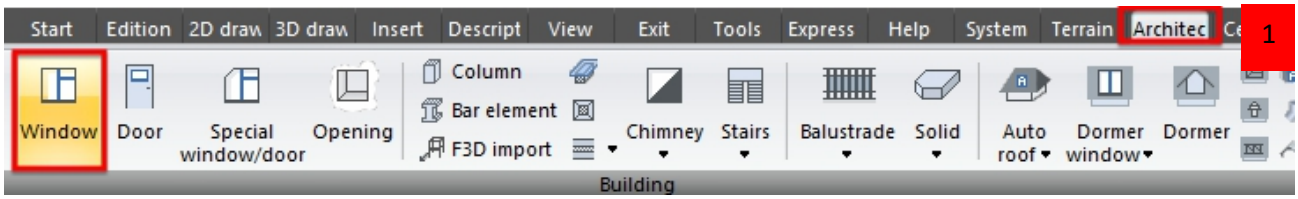
1. Thickness - 150mm
2. Height – 3100mm

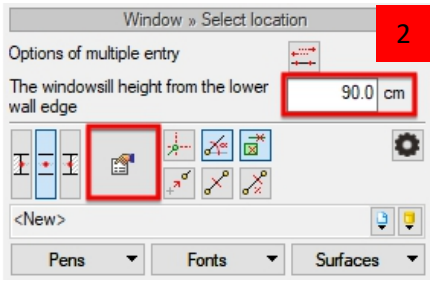
DESCRIPTION

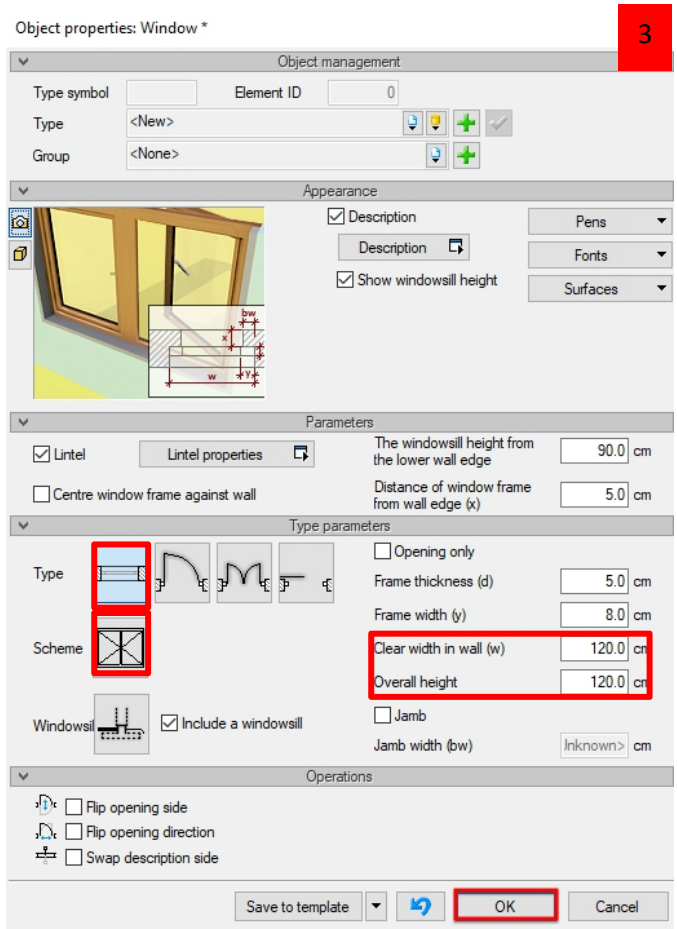
1) At **Architecture Ribbon**, select **Walls**
2) On **object insertion** click **Go To Object Properties**
3) At **parameters** change the **way of height of wall** and **wall height** is 3100mm. Then on **Type parameters** change the **thickness** according to **Diagram A** and then click **OK.** Then start draw at **Drawing Area** and model the **wall**

***You can refer Appendix A for insert the wall.**

INSERTING WINDOW







Windows

A

1. Window - 2 Panel (1200 x 1200mm) Distance from floor edge 900mm
2. Toilet Window - 1 Panel (600 x 600mm) Distance from floor edge 2100mm

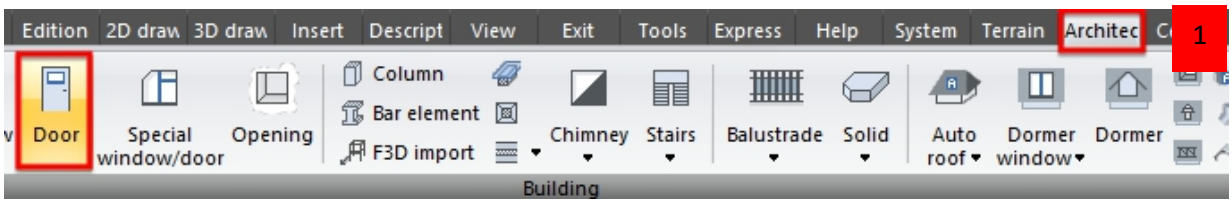
DESCRIPTION

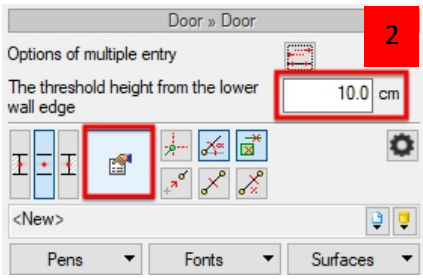
1) At **Architecture Ribbon**, select **Window**
2) On **object insertion** change **the window height from lower wall edge** - **900mm** and Click **Go To Object Properties**
3) At **type parameters** change the **type and scheme of window**. Then change **the size** according to **Diagram A** and then click **OK.**

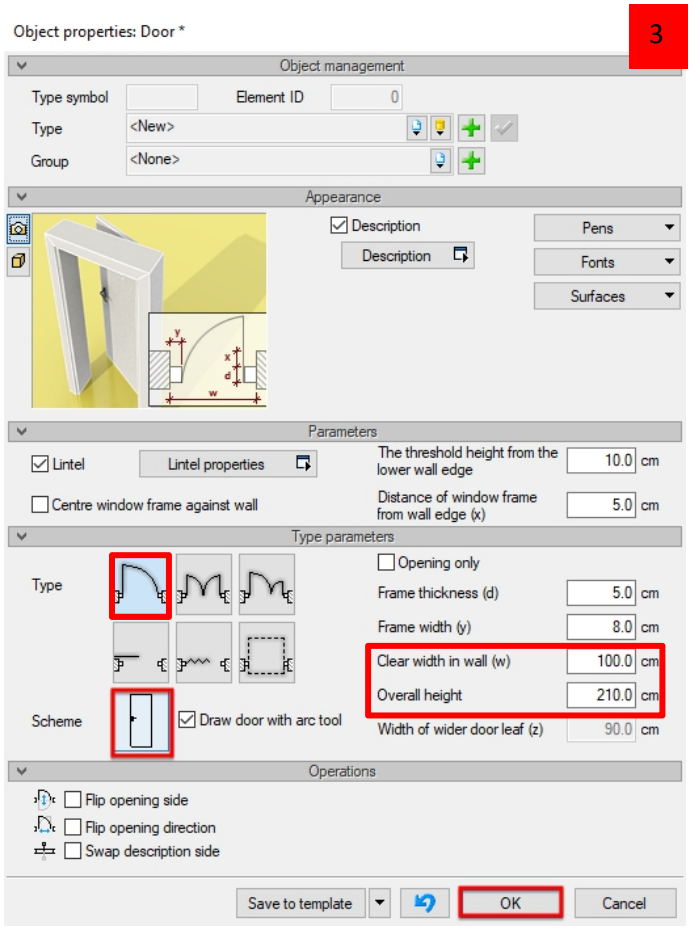
Then start draw with click the **wall** to position the **window.** Repeat the same step for **toilet window.**

***You can refer Appendix A for insert the window.**

INSERTING DOOR







Doors

A

1. Door - (1000 x 2100mm) Distance from floor edge 100mm
2. Toilet door (Hormony door) - (800 x 2100mm) Distance from floor edge 100mm

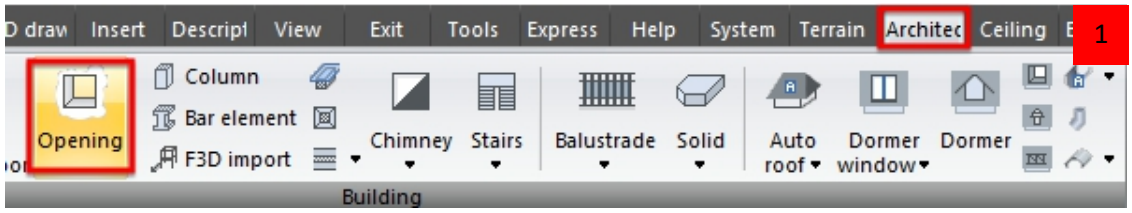
DESCRIPTION

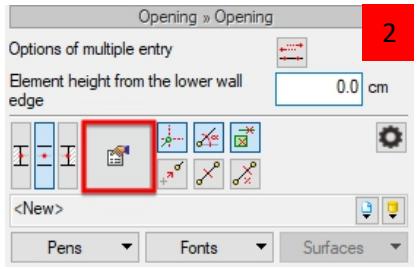
1) At **Architecture Ribbon**, select **Door**
2) On **object insertion** change **the door height from lower wall edge** - **100mm** and Click **Go To Object Properties**
3) At **type parameters** change the **type and scheme of door**. Then change **the size** according to **Diagram A** and then click **OK.**

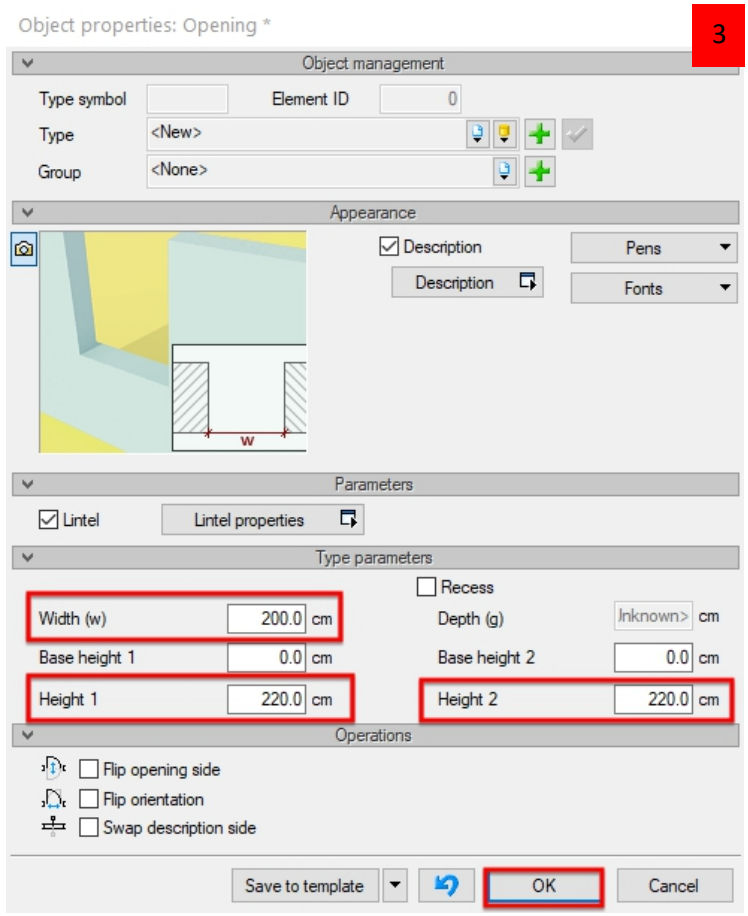
Then start draw with click the **wall** to position the **door.** Repeat the same step for **toilet door.**

***You can refer Appendix A for insert the door.**

INSERTING OPENING







Opening

A

1. Width - 2000mm
2. Height 1 and 2 - 2200mm

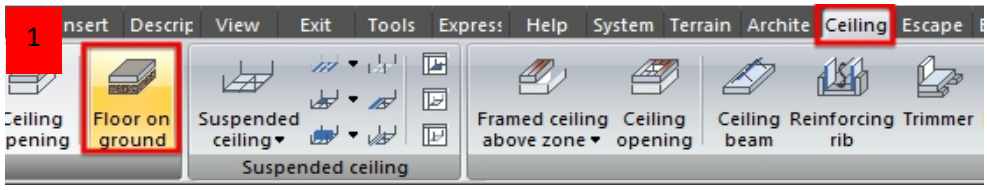
DESCRIPTION

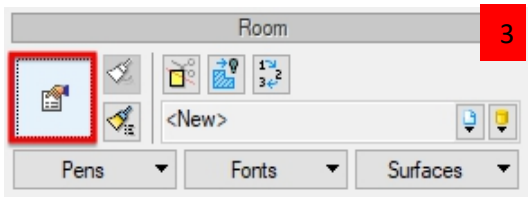
1) At **Architecture Ribbon**, select **Opening.**
2) On **object insertion** click **Go To Object Properties.**
3) At **type parameters** change the **size of width and height** according to **Diagram A** and then click **OK.**

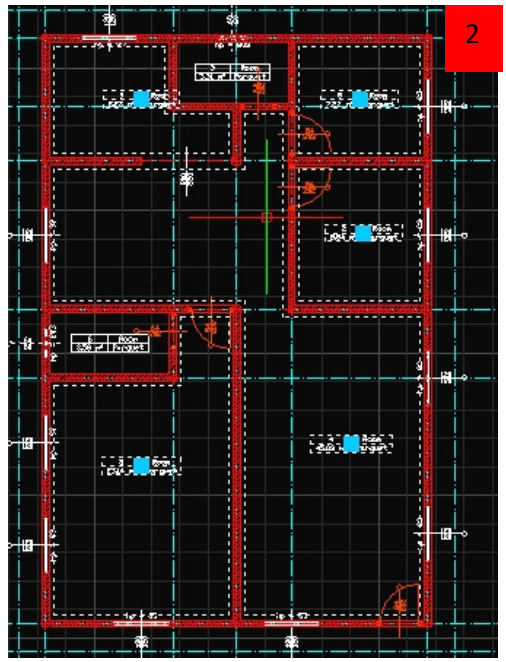
Then start draw with click the **wall** to position the **opening.**

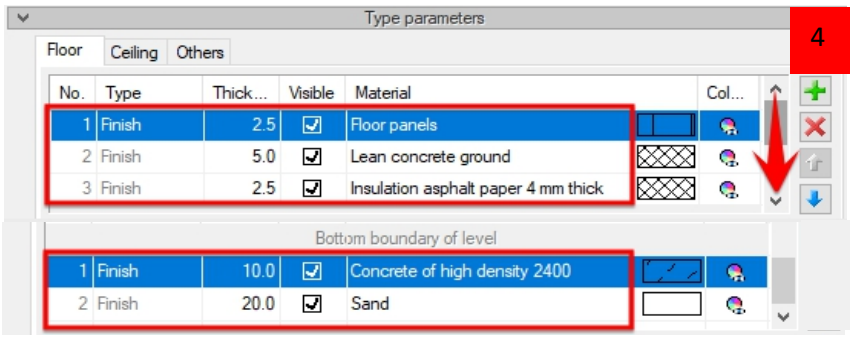
***You can refer Appendix A for insert the opening.**

FLOOR MODELLING









Floor A

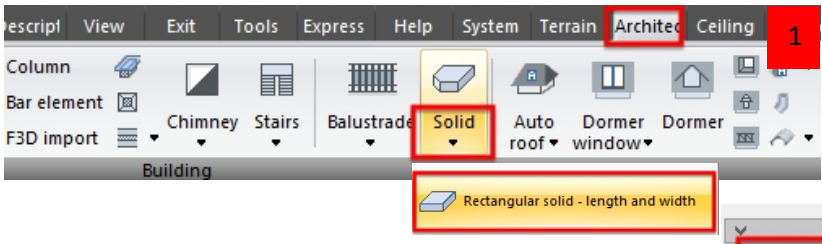
1. Floor - 100mm (25mm, 50mm, 25mm)
2. Toilet floor (Terrazo) - 50mm (10mm, 30mm, 10mm)

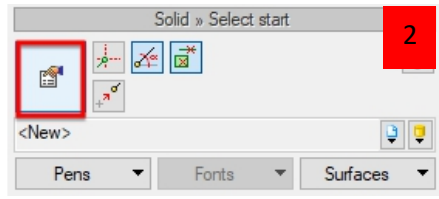
DESCRIPTION

1) At **Ceiling Ribbon**, select **Ground Floor.** It was automatic insert.
2) Click the **room area** (click all room accepted toilet area)
3) On **object insertion** click **Go To Object Properties**
4) At **Type parameters,** change the **thickness and material** of floor according to **Diagram A,** then remove all at **Bottom boundary of level** and then click **OK.**

Repeat the same step for **toilet floor.**

SLAB MODELLING

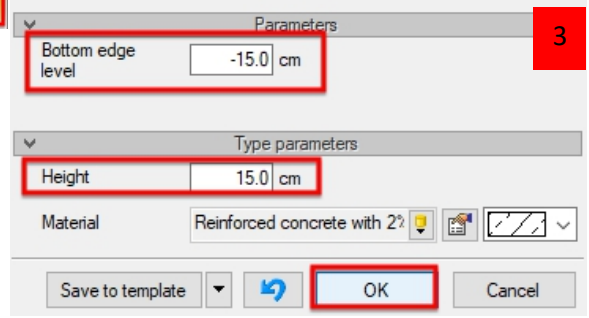




Slab

A

1. Rectugular Slab - thickness 150mm
(Bottom edge level -150mm)
Area (9600 x 14050 mm)

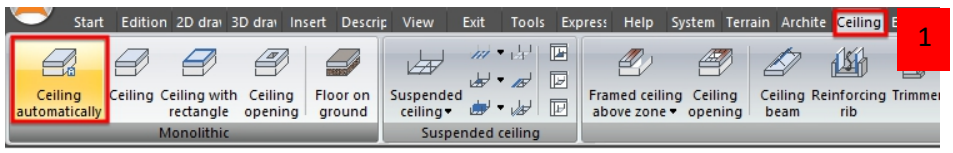


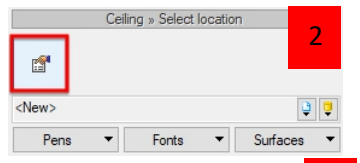
DESCRIPTION

1) At **Architecture Ribbon**, select **Rectangular Solid-length and width**.
2) On **object insertion** click **Go To Object Properties**
3) At **Parameters** change **bottom height level** and on **Type parameters** modify the **height of slab** according to **Diagram A** and then click **OK**
Insert **slab** following the **grid line** A1 and G1 then move to G8.

***You can refer Appendix A for insert the slab.**

CEILING MODELLING

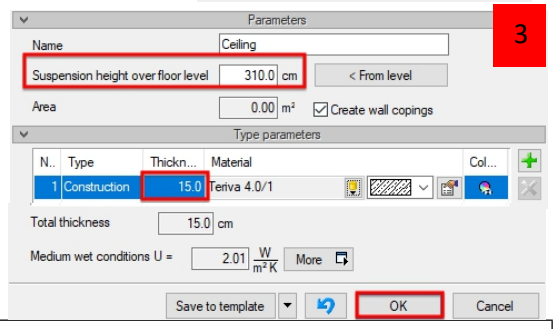




Ceiling

A

1. Ceiling - thickness 150mm
(Suspension height - 3100mm)

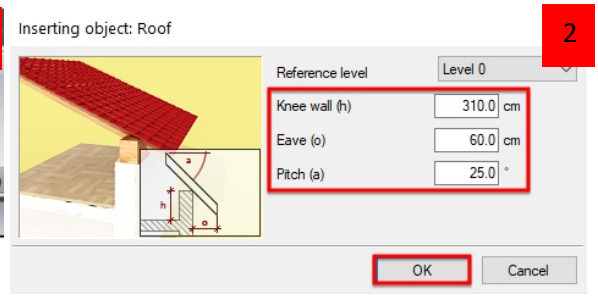


DESCRIPTION

1) At **Ceiling Ribbon**, select **Ceiling Automatically.**
2) On **object insertion** click **Go To Object Properties**
3) At **Parameters** change the **Suspension height.** Then **Type parameters** modify the **Thickness according to Diagram A** and then click **OK.**
Move the mouse to the drawing, it will shown the **line** and click at the drawing.

ROOF MODELLING

1



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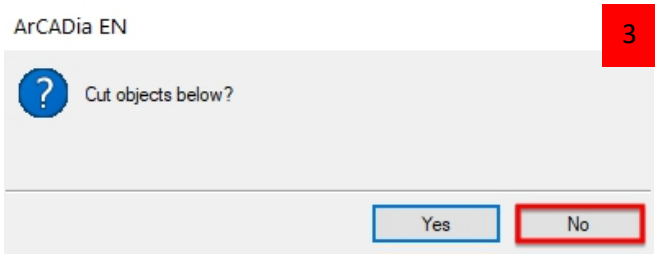
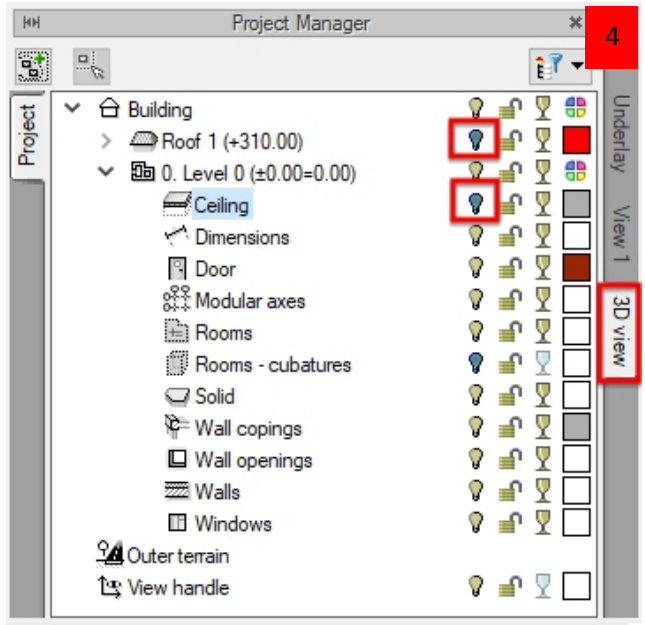


3

Roof A

1. Knee Wall (h) - 3100 mm
2. Eave (o) - 600mm
3. Pitch/slope - 25° degree

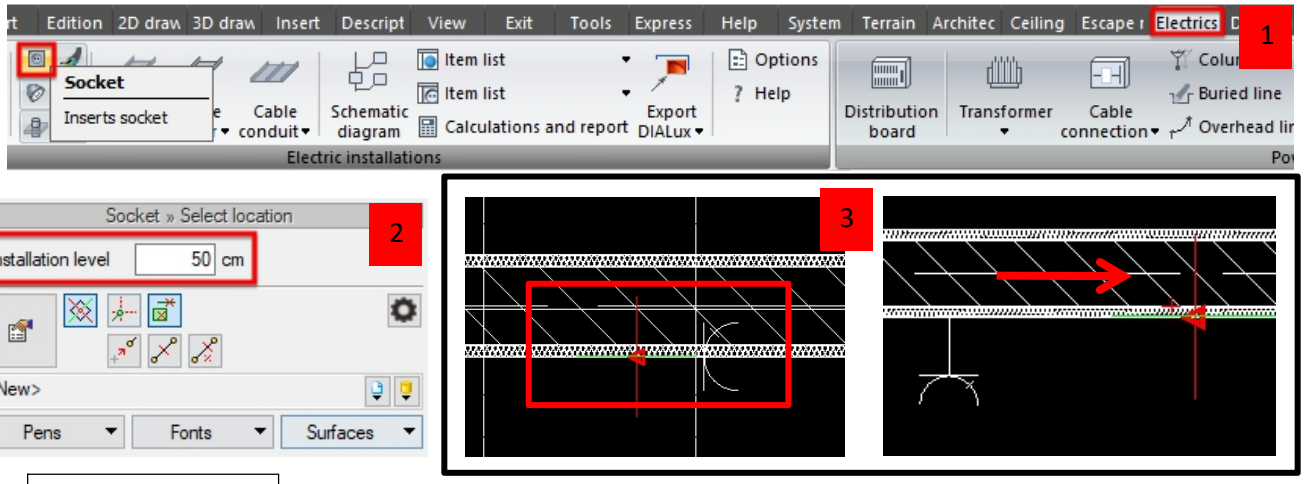


4

DESCRIPTION

1) At **Architecture Ribbon**, select **Rectangular roof.**
2) **Inserting object** will pop up, insert the information according to **Diagram A** and the click **OK.**
Move the mouse to the drawing, it will shown the **line** and click at the drawing.
3) If pop up 'Cut object below?' **Click No**
On drawing, slope of roof are automatic created.
4) To insert any component and want to see from 3D view. Click **3D View** then click **mentol to roof and ceiling to hide** the component. Then to modify again go to View 1.

INSERTING SOCKET



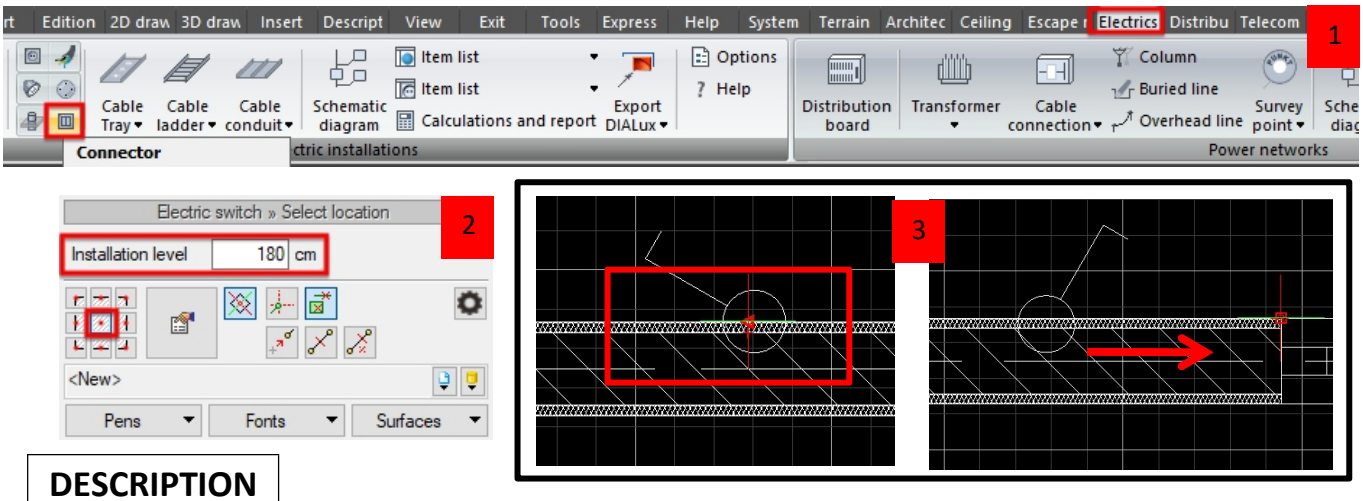
DESCRIPTION

Socket

1) At **Electrical Ribbon** click **Socket.**
2) **Object insertion** will pop up. Set the **Installation level - 500mm.**
3) Go to drawing click at needed part and rotate to get the good position with move the mouse at left/right/up/down.

*Installation level - 500mm

INSERTING CONNECTOR



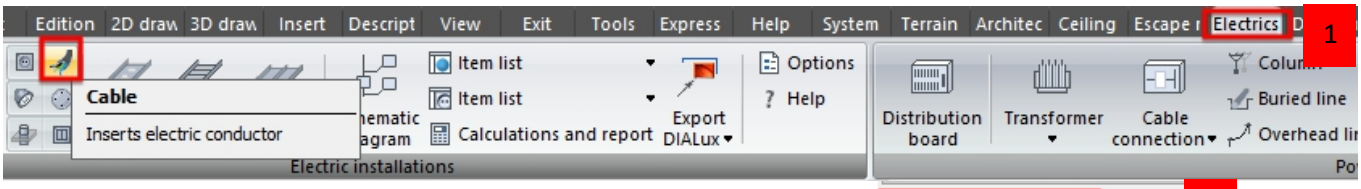
DESCRIPTION

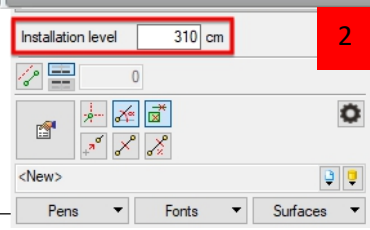
Connector

1) At **Electrical Ribbon** click **Connector.**
2) **Object insertion** will pop up. Set the **Installation level - 1800mm** and than change the edge to get the good position.
3) Go to drawing **click** at needed part and **rotate** to get the good position with **move the mouse at left/right/up/down.**

*Installation level - 1800mm

INSERTING CABLE



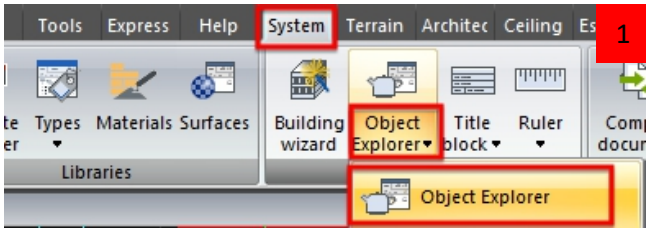


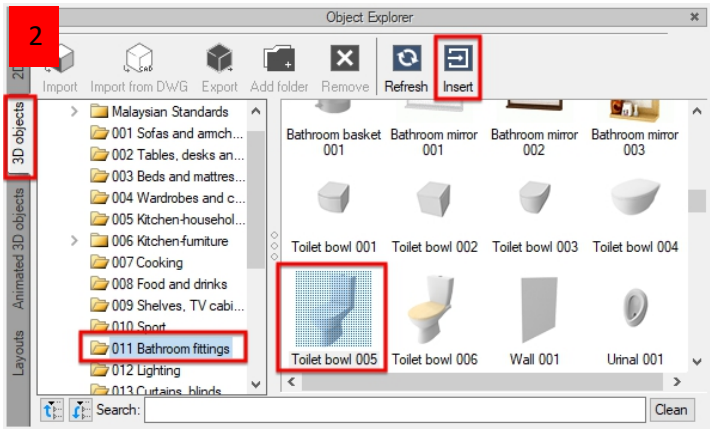
DESCRIPTION

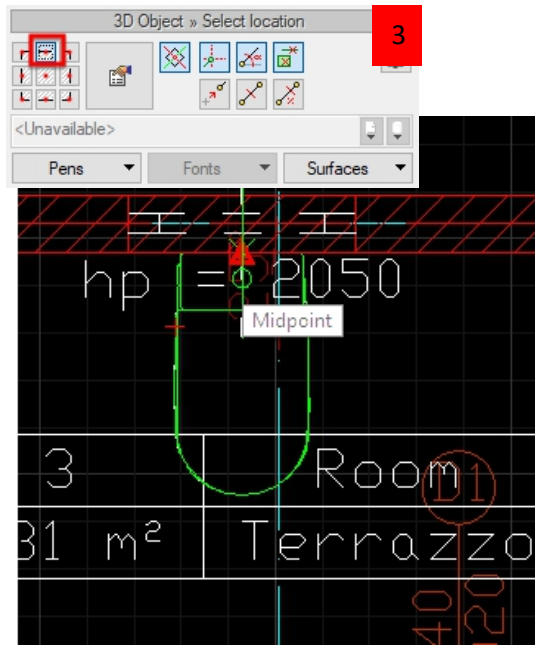
Cable

1) At **Electrical Ribbon** click **Cable.**
2) **Object insertion** will pop up. Set the **Installation level - 3100mm.**
Go to drawing **insert cable and connect to socket and connector**
*Installation level - 3100mm

INSERTING LIBRARY (3D OBJECT)



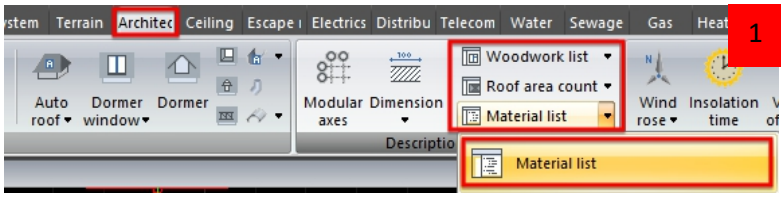


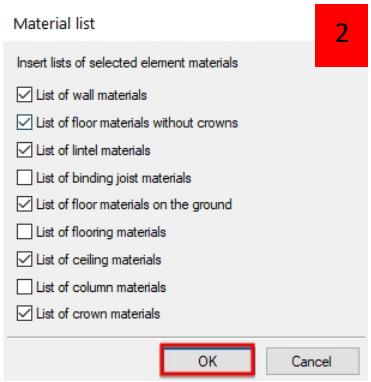


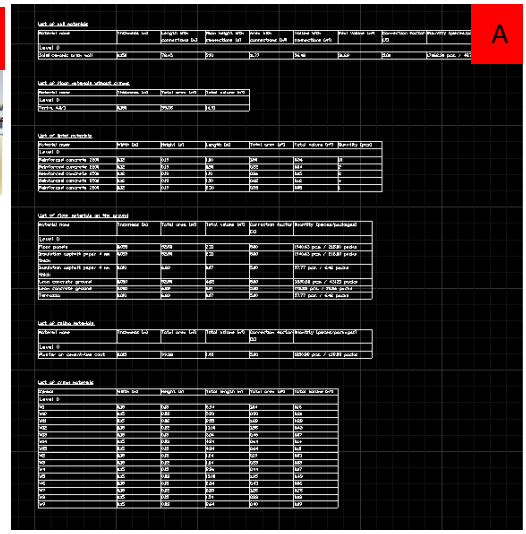
DESCRIPTION

1) At **System Ribbon**, select and click **Object Explorer.**
2) On **Object Explorer** click **3D objects.** Next scroll down select **Bathroom,** then click **Toilet bowl** and click **Insert.**
3) On **object insertion,** Change the edge to get the good position.
Go to drawing **click** at needed part and **rotate** to get the good position with **move the mouse at left/right/up/down.**

MATERIAL LIST/COSTING



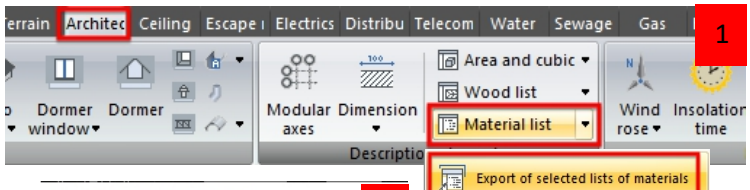


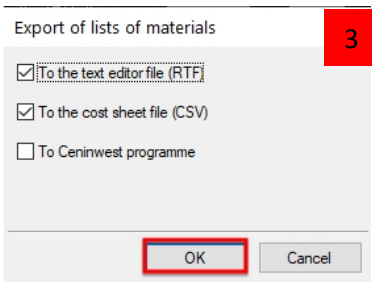


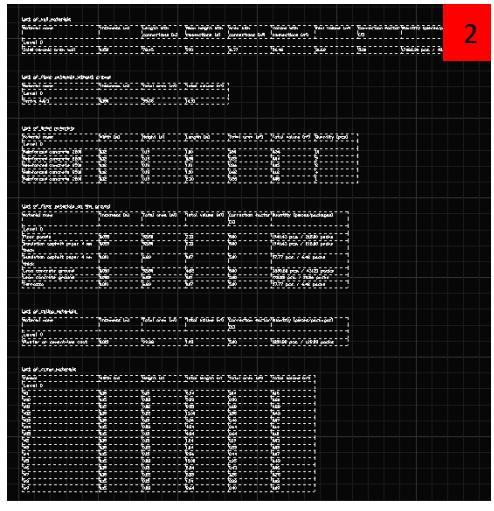
DESCRIPTION

1) At **Architecture Ribbon** click **Material List.**
2) Material list will be shown. Tick all list (Auto detected what you used)
Repeat for the Electrical and 3D Object.
Insert List on **Drawing Area** as per **Diagram A**

EXPORT MATERIAL LIST/COSTING

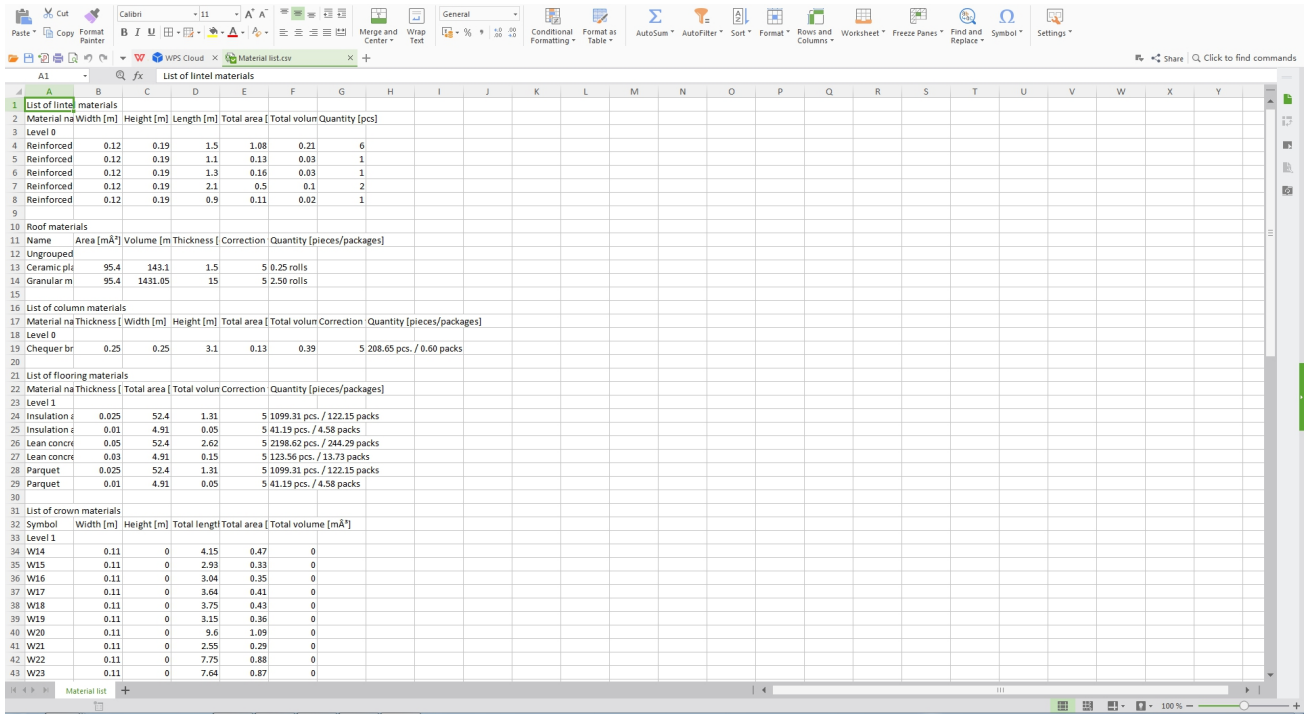






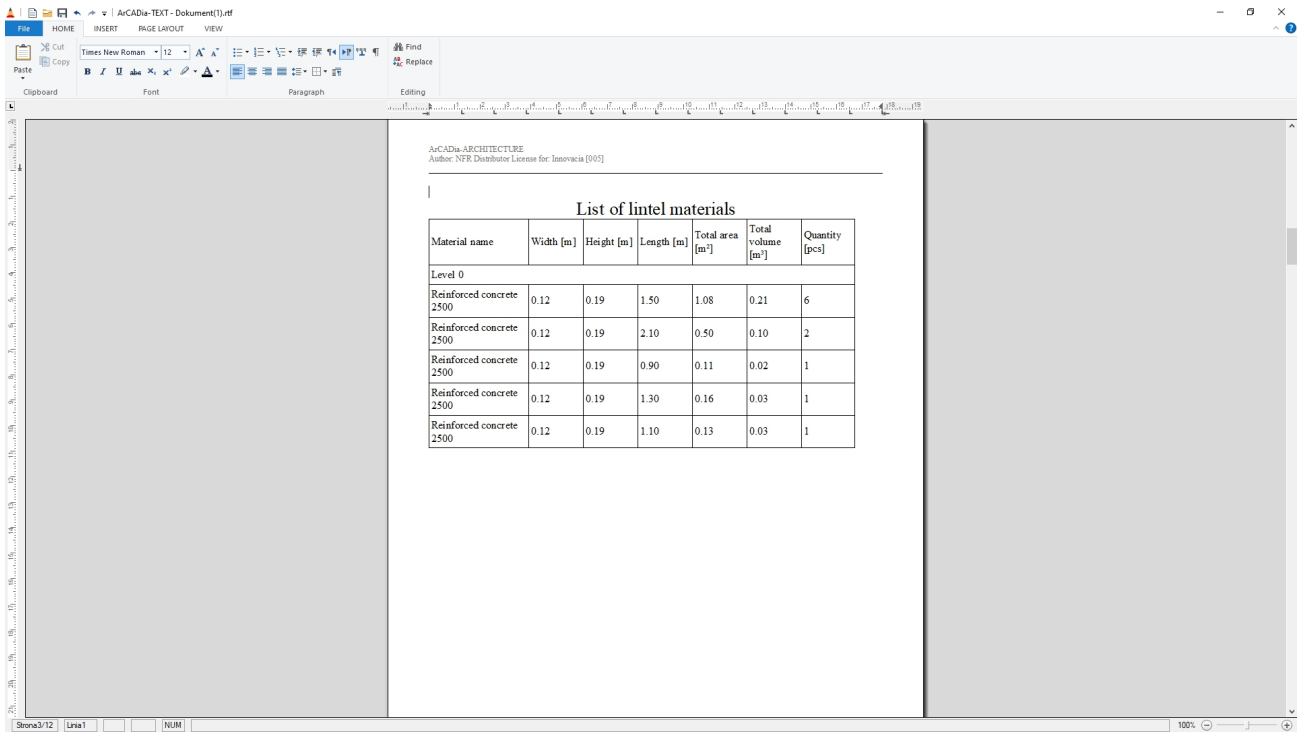
DESCRIPTION

1) At **Architecture Ribbon** click **Export of Selected lists of Material.**
2) Select all table of material lists, then right click.
3) **Export of lists of material** will be shown, then **tick** to export the lists.
Note:
RTF for Word Processor (doc file) and CSV for Excel (csv file)



List of linte	materials					
Material na	Width [m]	Height [m]	Length [m]	Total area [	Total volun	Quantity [pcs]
Level 0						
Reinforced	0.12	0.19	1.5	1.08	0.21	6
Reinforced	0.12	0.19	1.1	0.13	0.03	1
Reinforced	0.12	0.19	1.3	0.16	0.03	1
Reinforced	0.12	0.19	2.1	0.5	0.1	2
Reinforced	0.12	0.19	0.9	0.11	0.02	1
Roof materials						
Name	Area [mÂ²]	Volume [m	Thickness [	Correction	Quantity [pieces/packages]	
Ungrouped						
Ceramic pla	95.4	143.1	1.5	5	0.25 rolls	
Granular m	95.4	1431.05	15	5	2.50 rolls	
List of column materials						
Material na	Thickness [	Width [m]	Height [m]	Total area [	Total volun	Correction Quantity [pieces/packages]
Level 0						
Chequer br	0.25	0.25	3.1	0.13	0.39	5 208.65 pcs. / 0.60 packs
List of flooring materials						
Material na	Thickness [	Total area [	Total volun	Correction	Quantity [pieces/packages]	
Level 1						
Insulation a	0.025	52.4	1.31	5	1099.31 pcs. / 122.15 packs	
Insulation a	0.01	4.91	0.05	5	41.19 pcs. / 4.58 packs	
Lean concre	0.05	52.4	2.62	5	2198.62 pcs. / 244.29 packs	
Lean concre	0.03	4.91	0.15	5	123.56 pcs. / 13.73 packs	
Parquet	0.025	52.4	1.31	5	1099.31 pcs. / 122.15 packs	
Parquet	0.01	4.91	0.05	5	41.19 pcs. / 4.58 packs	
List of crown materials						
Symbol	Width [m]	Height [m]	Total lengt	Total area [	Total volume [mÂ³]	
Level 1						
W14	0.11	0	4.15	0.47	0	
W15	0.11	0	2.93	0.33	0	
W16	0.11	0	3.04	0.35	0	
W17	0.11	0	3.64	0.41	0	
W18	0.11	0	3.75	0.43	0	
W19	0.11	0	3.15	0.36	0	
W20	0.11	0	9.6	1.09	0	
W21	0.11	0	2.55	0.29	0	
W22	0.11	0	7.75	0.88	0	
W23	0.11	0	7.64	0.87	0	

Material Lists in a Spreadsheet for your costing.



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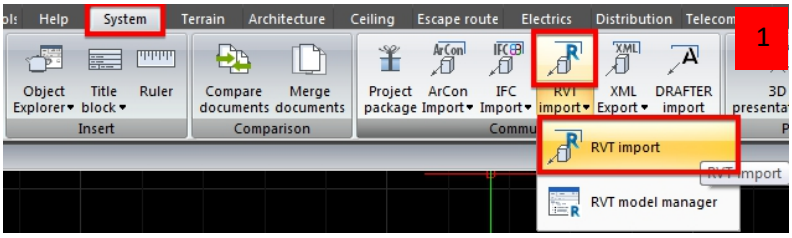
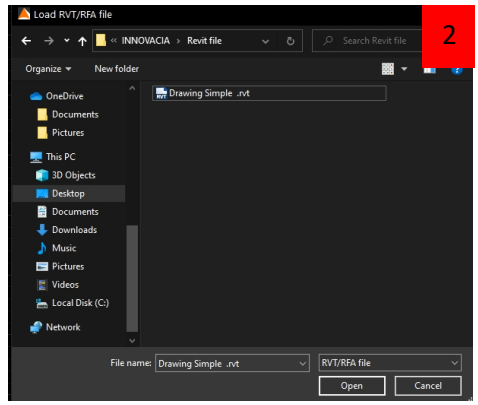
List of lintel materials

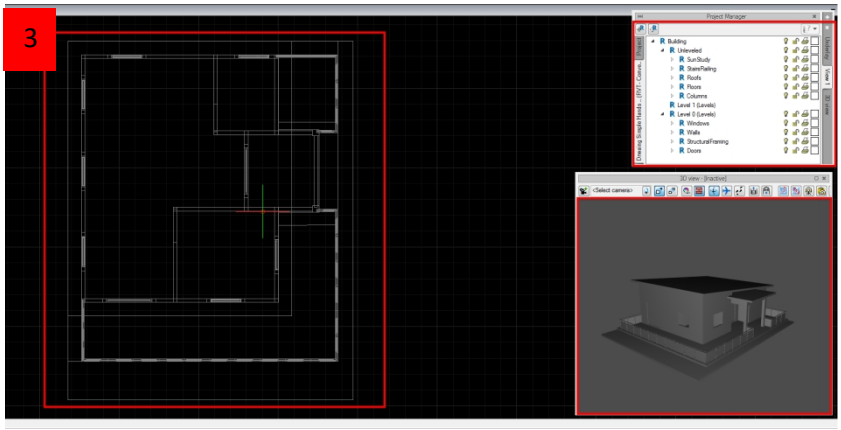
Material name	Width [m]	Height [m]	Length [m]	Total area [m²]	Total volume [m³]	Quantity [pcs]
Level 0						
Reinforced concrete 2500	0.12	0.19	1.50	1.08	0.21	6
Reinforced concrete 2500	0.12	0.19	2.10	0.50	0.10	2
Reinforced concrete 2500	0.12	0.19	0.90	0.11	0.02	1
Reinforced concrete 2500	0.12	0.19	1.30	0.16	0.03	1
Reinforced concrete 2500	0.12	0.19	1.10	0.13	0.03	1

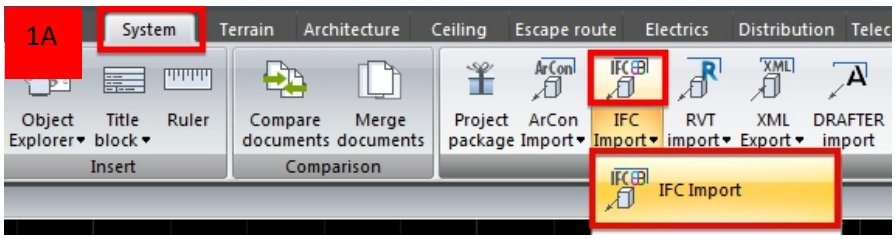
Material Lists in a Word Processor for your report.

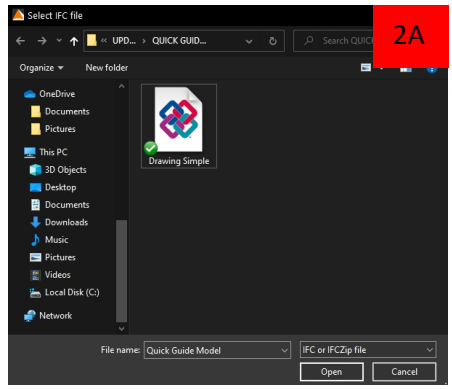
INSERT RVT FILE, RFA FILE & IFC FILE TO TIFFINBIM

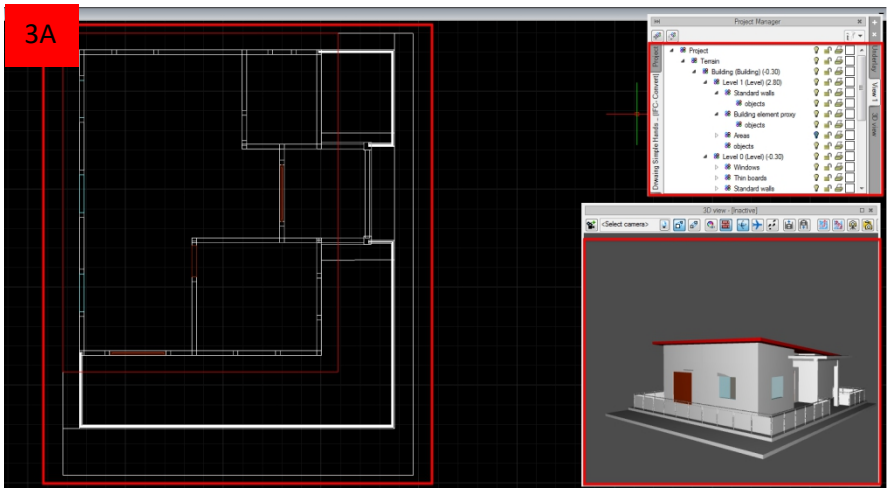












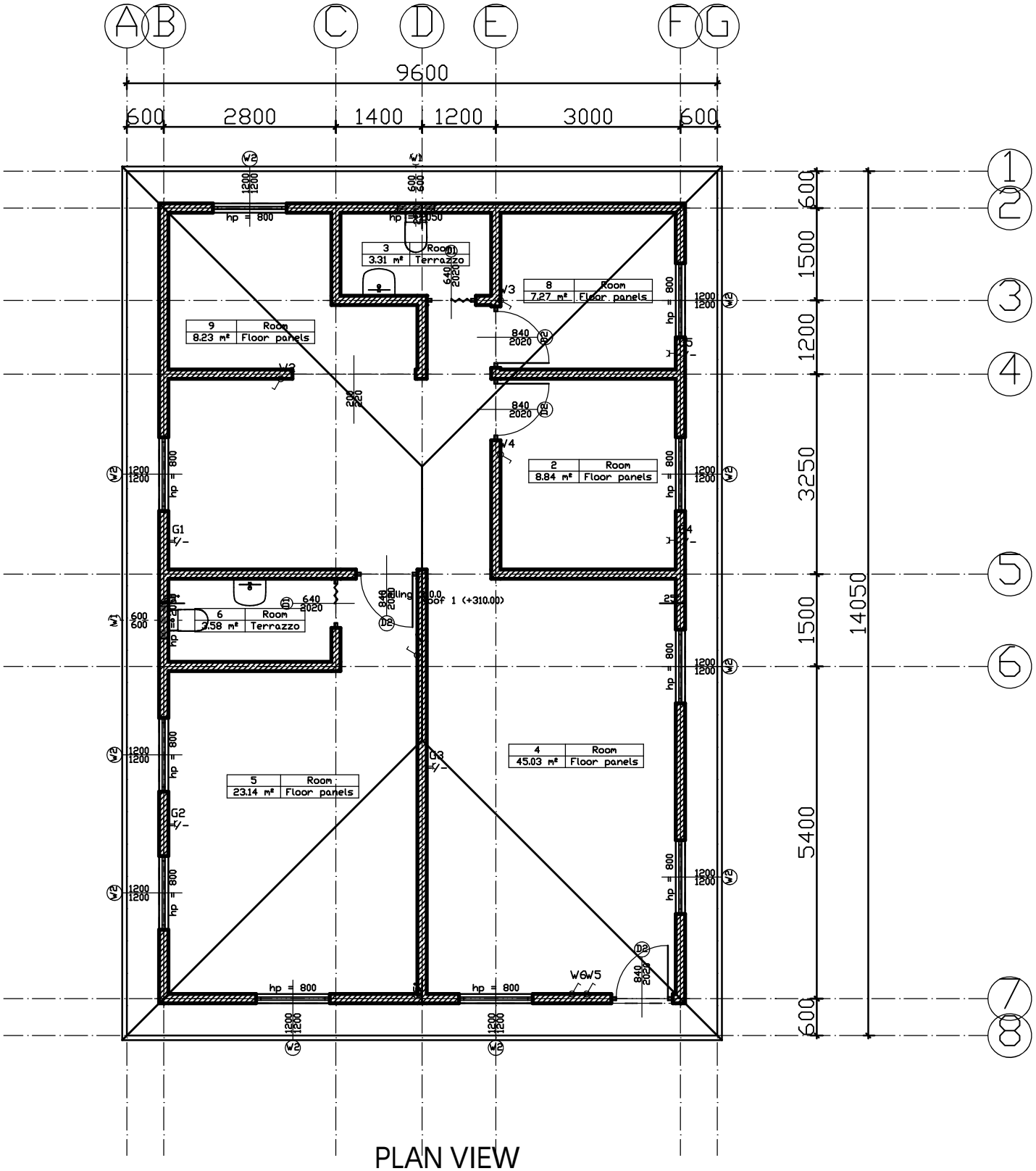
DESCRIPTION

Note: We uses the another model but still same step.

1) At **System Ribbon** click **RVT import.**
2) Select **rvt file** on the folder and click **Open**.
3) The model from **rvt file** will shown as per **Diagram 3**. (We use the example

Repeat same step **(Step 1-3)** for **insert ifc file** as per **Diagram 1A to 3A**.

APPENDIX A



PLAN VIEW

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