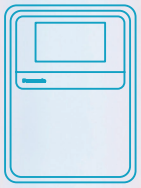
Panasonic

LIGHTING DEVICES
Exit Lights MX25 and MX40 Wall
MX_Wall



FIRE ALARM DEVICES
Control and Indicating Equipment
2000_EBLOne Control Panel

FIRE ALARM DEVICES
Manual Call Points
4433_Addressable Manual Call Point

BIM LIBRARY

User manual

Safety innovation, our passion

www.panasonic-fire-security.com

This document provides information about the BIM library and the proper use of BIM families with Autodesk Revit® 2020 software produced by Panasonic. It should be noted that all Panasonic BIM objects have been developed at LOD 350 level of detail, and include all relevant product properties for planning, such as material, dimensions, and performance.

Structure of Panasonic´s BIM families

Within Panasonic's library, we can find the following families classified under the categories of Fire Alarm Devices and Lighting Devices:

Fire Alarm Devices

Detectors without Isolator

4408_Analog Heat Detector
4409_Enclosed Analog Heat Detector
4400_ Analog Multi Detector
4401_Analog Photoelectric Smoke Detector
4402_Analog Multi Detector with CO

Detectors with Isolator

4400I_Analog Multi Detector
4401I_Analog Smoke Detector

Conventional Detectors

4318_Conventional Heat Detector
4452_Conventional Smoke Detector
6295-6298_Enclosed Conventional Heat Detector

I/O Units

4460_Addressable 230VAC Relay Output Unit
4461_Addressable Multipurpose I_O Unit
4462_Addressable Dual Input Unit
4466_Addressable External Power Supply

Intrinsically Safe Detectors

2840_Intrinsically Safe Analog Smoke Detector
2841_Intrinsically Safe Analog Heat Detector
2842_Intrinsically Safe Barrier Unit

Manual Call Points

4433_Addressable Manual Call Point
4439_Addressable Enclosed Manual Call Point
4445_Addressable Local Alarm Acknowledge Unit

Alarm Devices

4381_Addressable VAD
4480_Addressable Wall VAD
4481_Addressable Ceiling VAD
4482_Addressable VAD with Siren
4487_Addressable Siren

Wireless

4611_Wireless Smoke Detector with Siren
4614_Wireless Manual Call Point
4620_Addressable Base Station for Wireless Units
4645_Wireless Local Alarm Acknowledge Unit

NOTE

In general, the families are named using the following format: 'TypeNumber_Description,' maintaining this structure.

Control and Indicating Equipment

5000S_Control Panel and Indicating Equipment
5001S_Control Panel and Indicating Equipment
5013_Cabinet for Drawings
5014_Cabinet for Batteries
5054_5055_Display Unit with Cabinet
5054_Display Unit
2000_EBLOne Control Panel
2000K_EBLOne Control Panel with Key

External Indicator

2218_External Indicator
4418_Addressable External Indicator

Aspirating Detectors

AE2010G-P_Aspirating Smoke Detector with Thub
AE2010G-P_Aspirating Smoke Detector
ELOCLEAN_Cleaning System for Pipes
KG253_252_Branch X/Y
PH12-36B_PowerHouse Battery Box
THUB_Mounting Console
VF250_Vulcan Dust and Condensation Filter

Lighting Devices

Exit Lights MX25 and MX40 Wall

MX_Wall
MX_Wall_HCP

Exit Lights MX25 and MX40 Ceiling

MX_Ceiling
MX_Ceiling_HCP

Emergency Lights MX C and R

MX_Light C
MX_Light R

Emergency and Exit Lights MX Power Box

MX_Power_Box

File name and characteristics

The BIM object is delivered in files with the '.rfa' extension, adhering to the following configuration for families categorized as '**Fire Alarm Devices**': 'TypeNumber_Description'

For example:
4409_Enclosed Analog Heat Detector
4400_Analog Multi Detector
2000_EBLOne Control Panel

On the other hand, families categorized as "Lighting Devices" adhere to the following naming configuration for files: "TypeName".

For example:
MX_Wall
MX_Ceiling_HCP
MX Light C

The files are native and generated with Autodesk Revit version 2020.

Additionally, a file is provided where Panasonic's associated information for each BIM object can be clearly visualized. This .rvt file facilitates the creation of quantity tables, providing a count of elements used in the project along with their associated information.

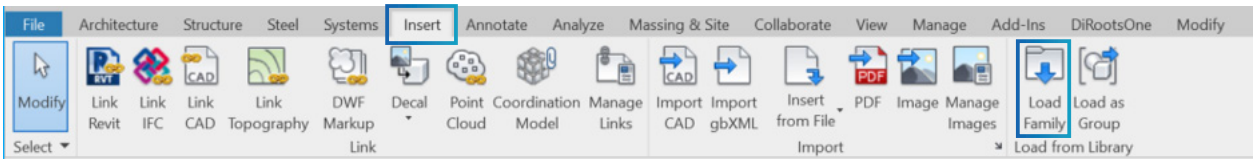
The information is presented in a unified table format, including the family name and parameters defined in its configuration, such as dimensions, applied materials, acceptable voltages, currents, diameters, and other parameters.

The products showcased in this document are used as examples.

How to use the Revit families

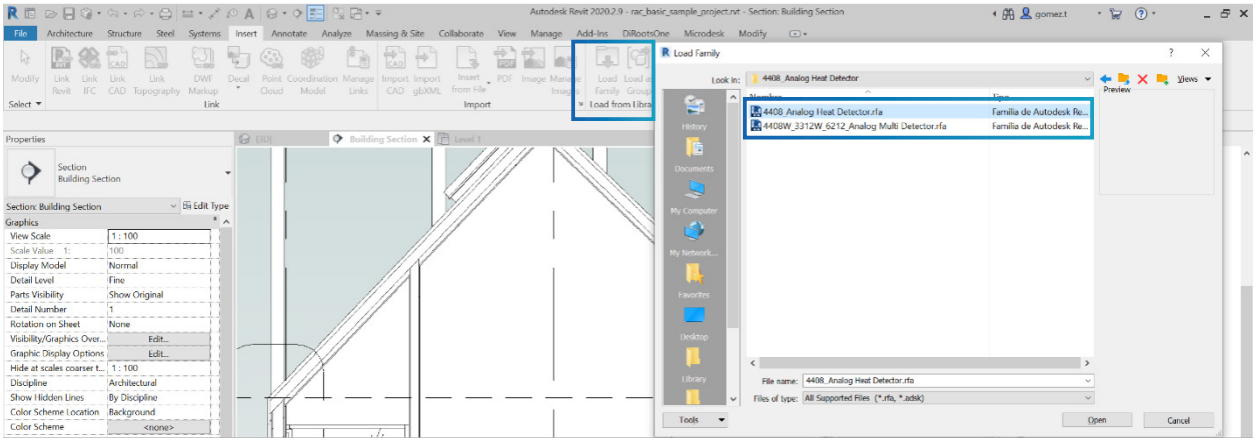
Step 1

Download the Panasonic .rfa files into your library based on the elements that interest you.
Ej: 4408_Analog_Heat_Detector



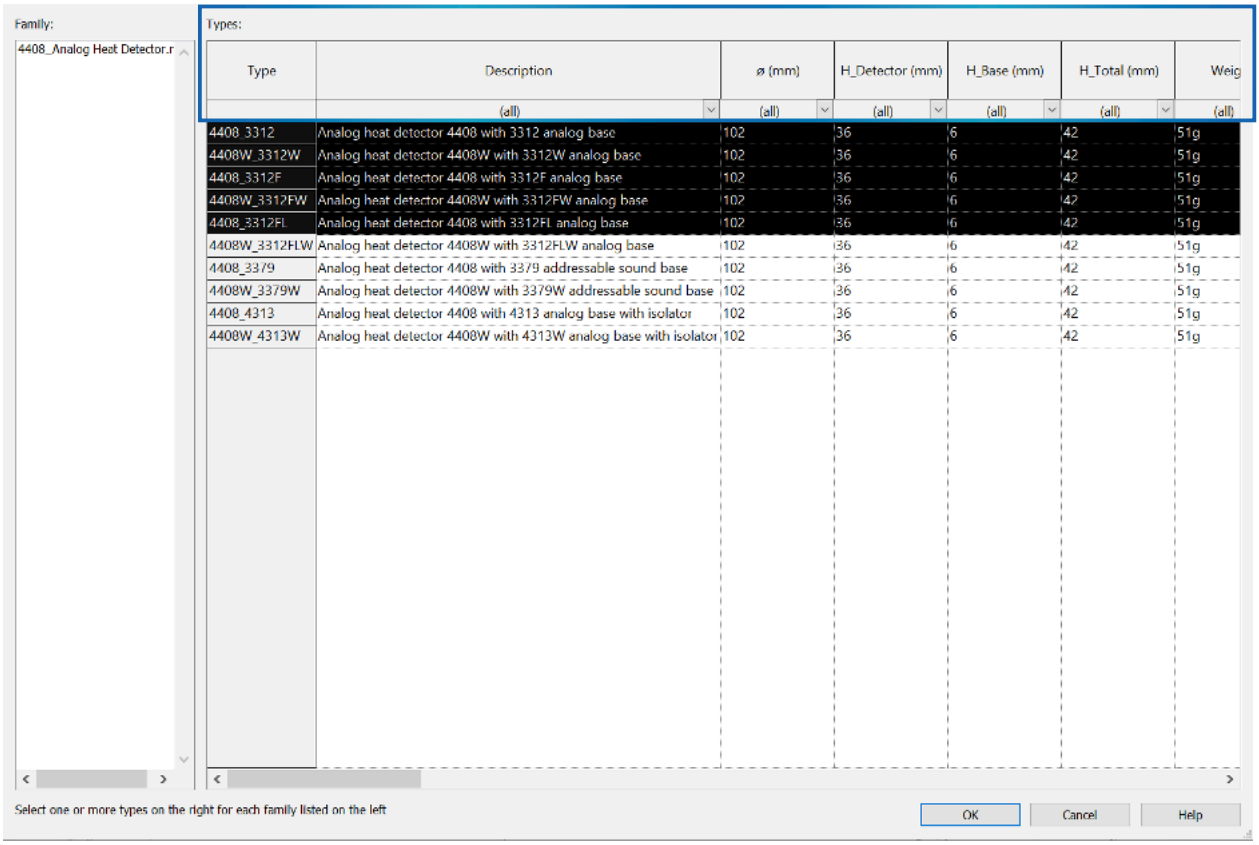
Step 2

We open our project and insert the 4408_Analog_HeatDetector families.



Step 3

When opening the family, a pop-up window will appear to select the 'Types' of the family, as it is a catalogue family.

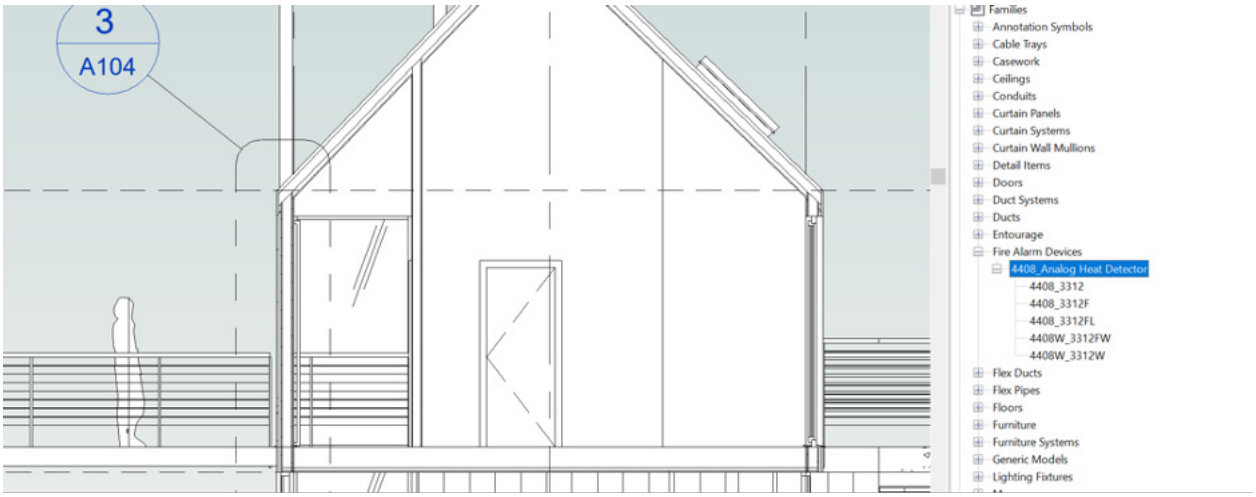


NOTE

Non-selected elements will not be incorporated into the project. Therefore, if you need another element later, you will have to repeat this process. On the other hand, not all families are catalogue families, which means that this pop-up window may not appear for all loadable families

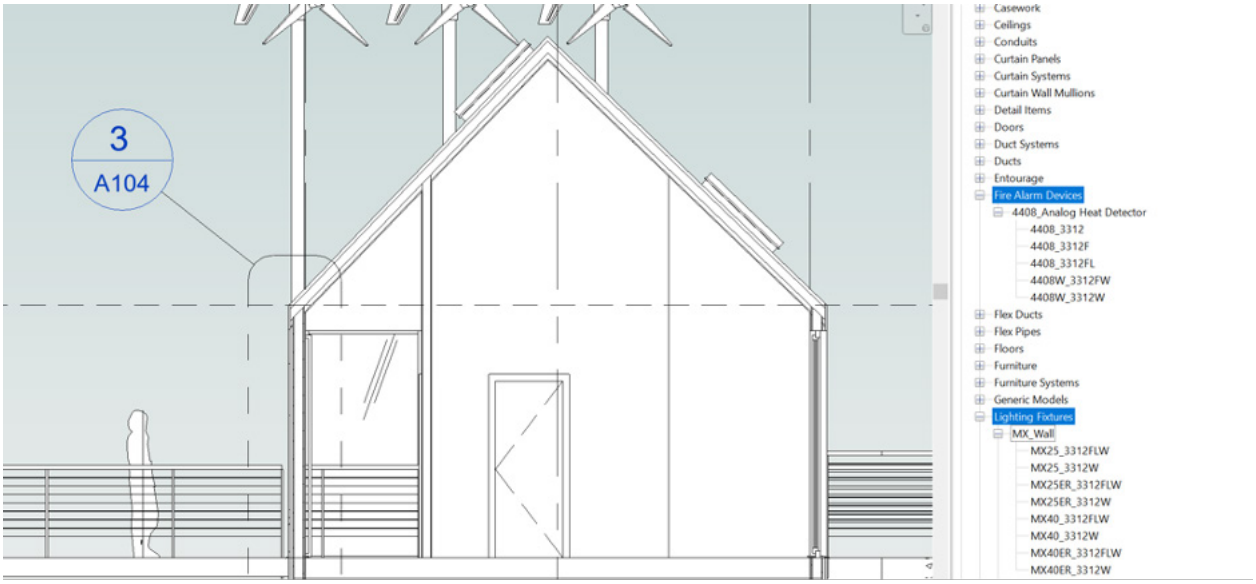
Step 4

Once inserted, the selected types will be available as a family with various variants within the Fire Alarm Devices category. You can choose to place any of the inserted types.



NOTE

The families can be found in the project browser classified under Fire Alarm Devices or Lighting Devices. When generating scheduling tables, we have the option to select different categories or generate a multi-category table.



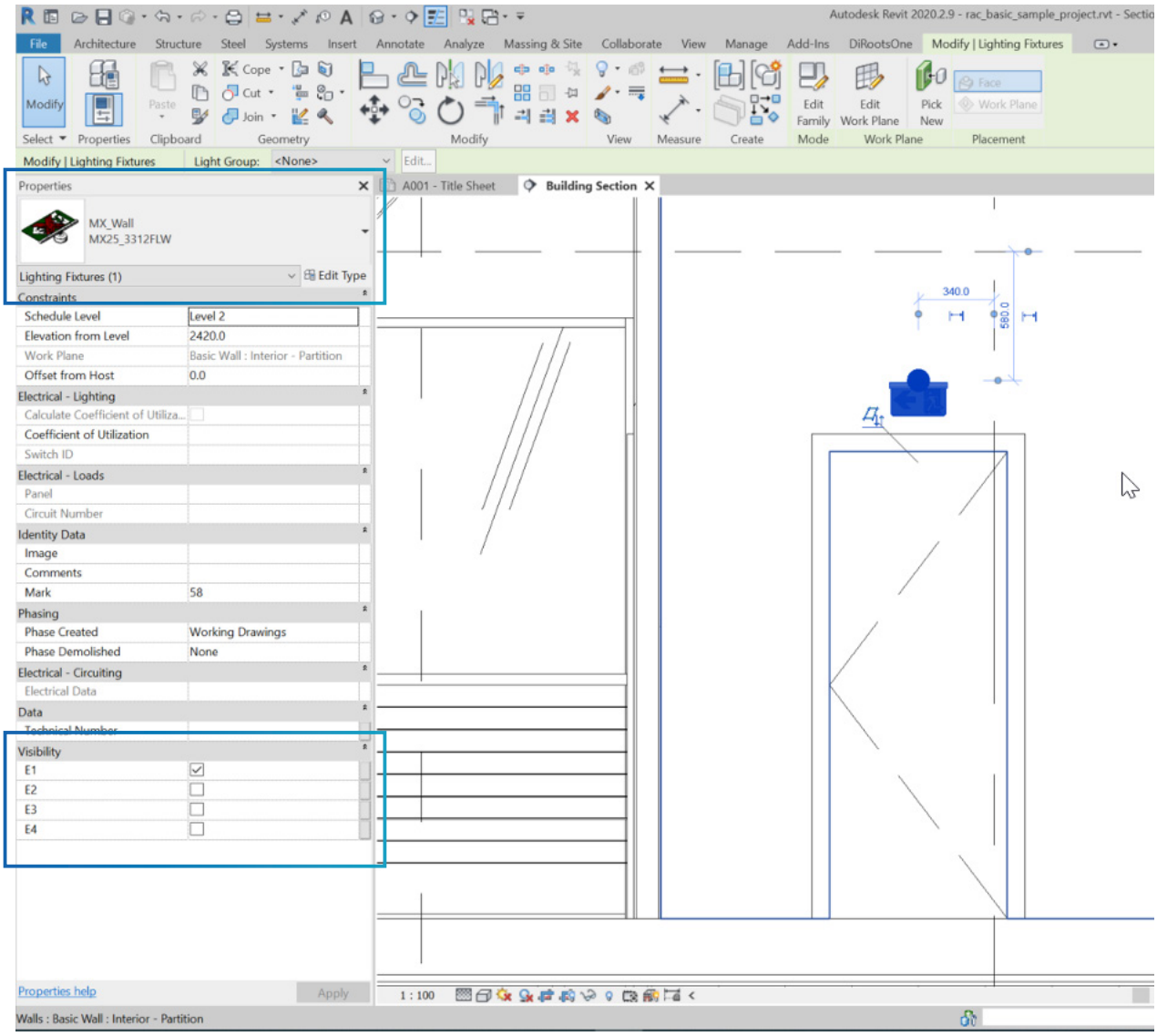
Usage of parameters in lighting devices families

Step 5

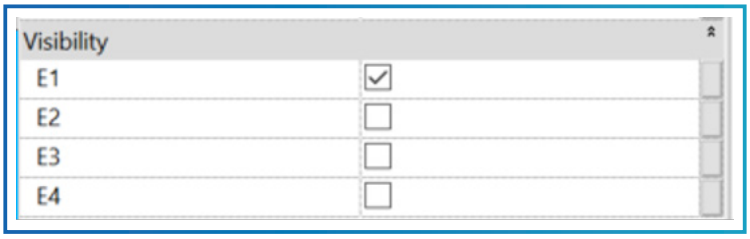
Once placed in the project, we will be able to choose from the various available functions for each of the elements.

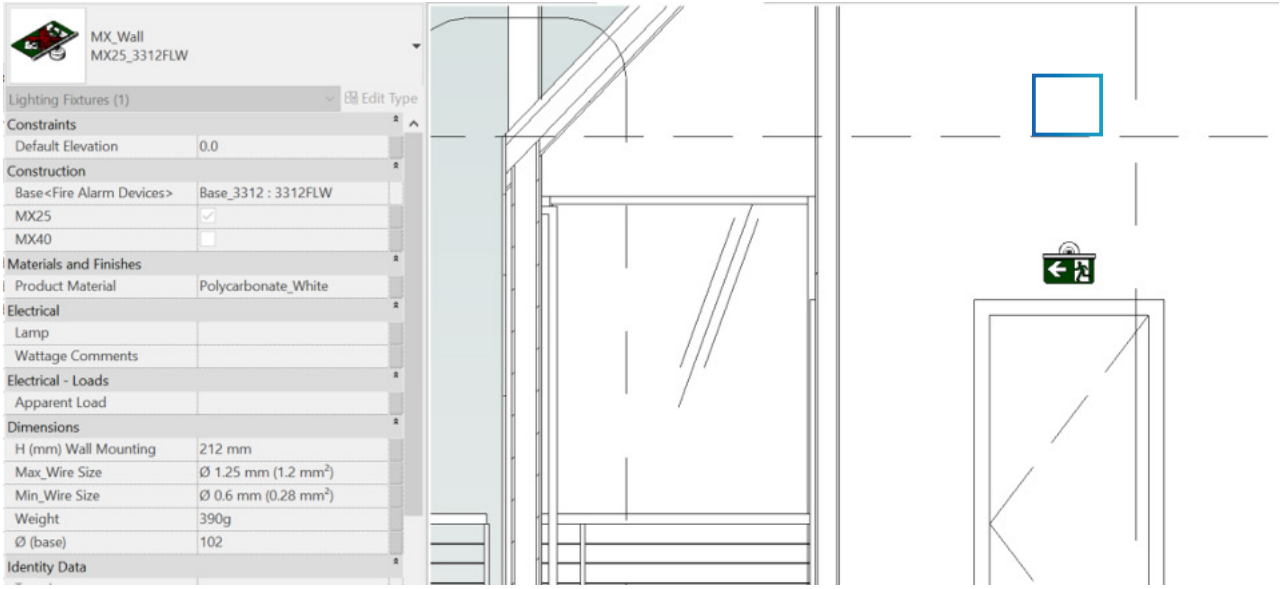
For example, if we have the MX_Wall family installed, which offers 8 types to choose from (Lighting device families). Under properties, in the Visibility settings, we will select the arrow direction.

E1 corresponds to left, E2 corresponds to right, E3 corresponds to down, and E4 corresponds to up. It is important to load only a single selection.



For example, in this case, we can observe that E1 is selected, indicating that the arrow points to the left.

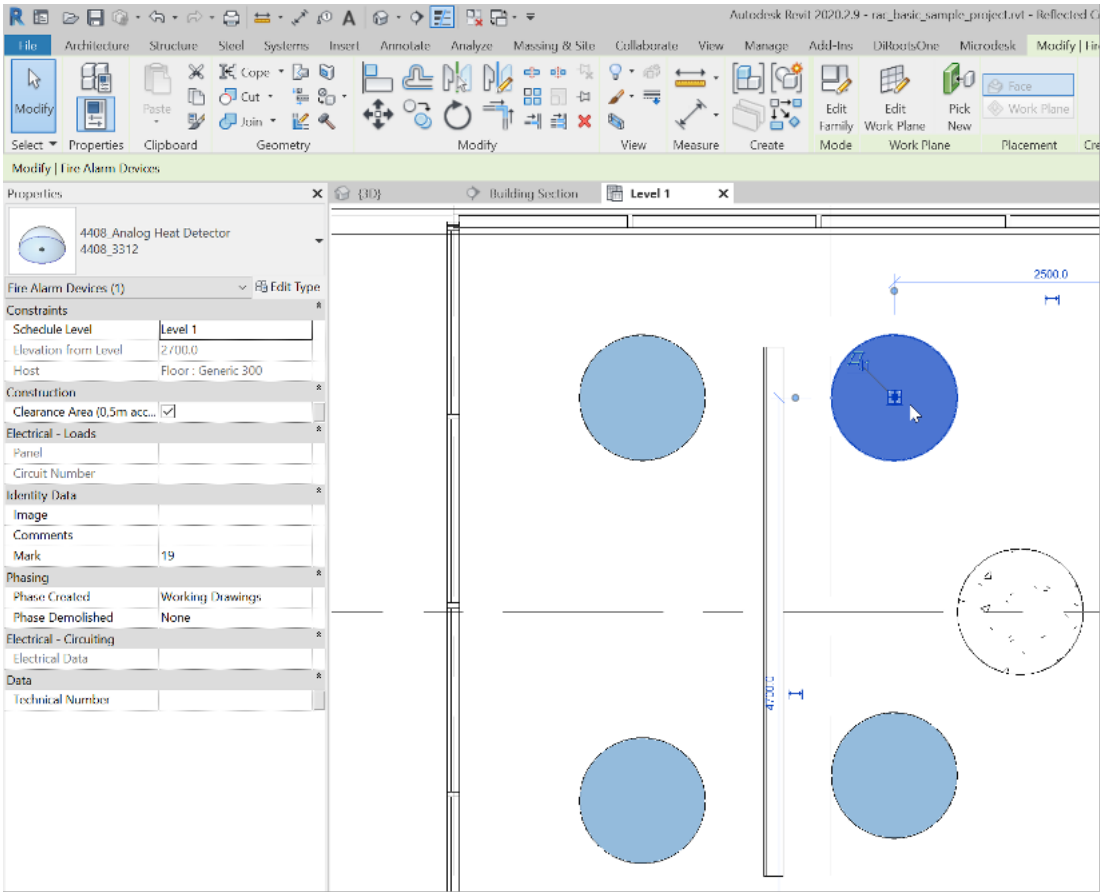




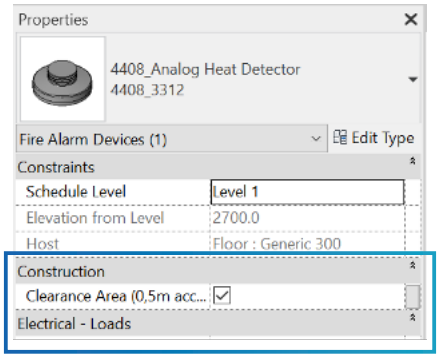
Step 5-bis

In the case of Fire Alarm Devices families, there is no need to modify or apply any visibility parameters as each “Type” of each BIM family is independent.

For example, if we have the 4408_Analog_HeatDetector family installed, with 5 types to choose from (Fire Alarm Devices family).

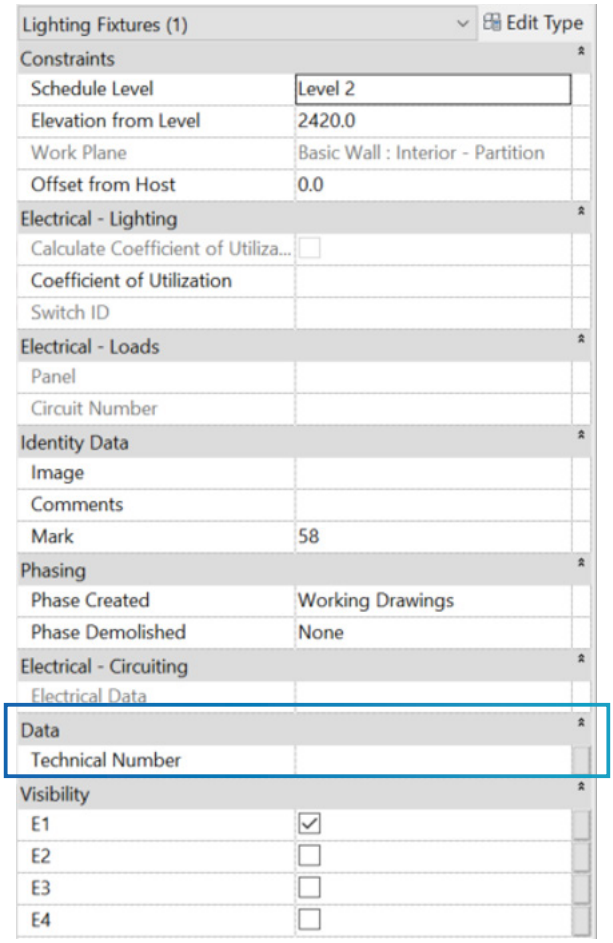


We will have the option to check or uncheck the “Clearance Area” box if the technical specifications required for that element in the project specify it. You can find it in the “Construction” section of the type properties when selecting the individual element.



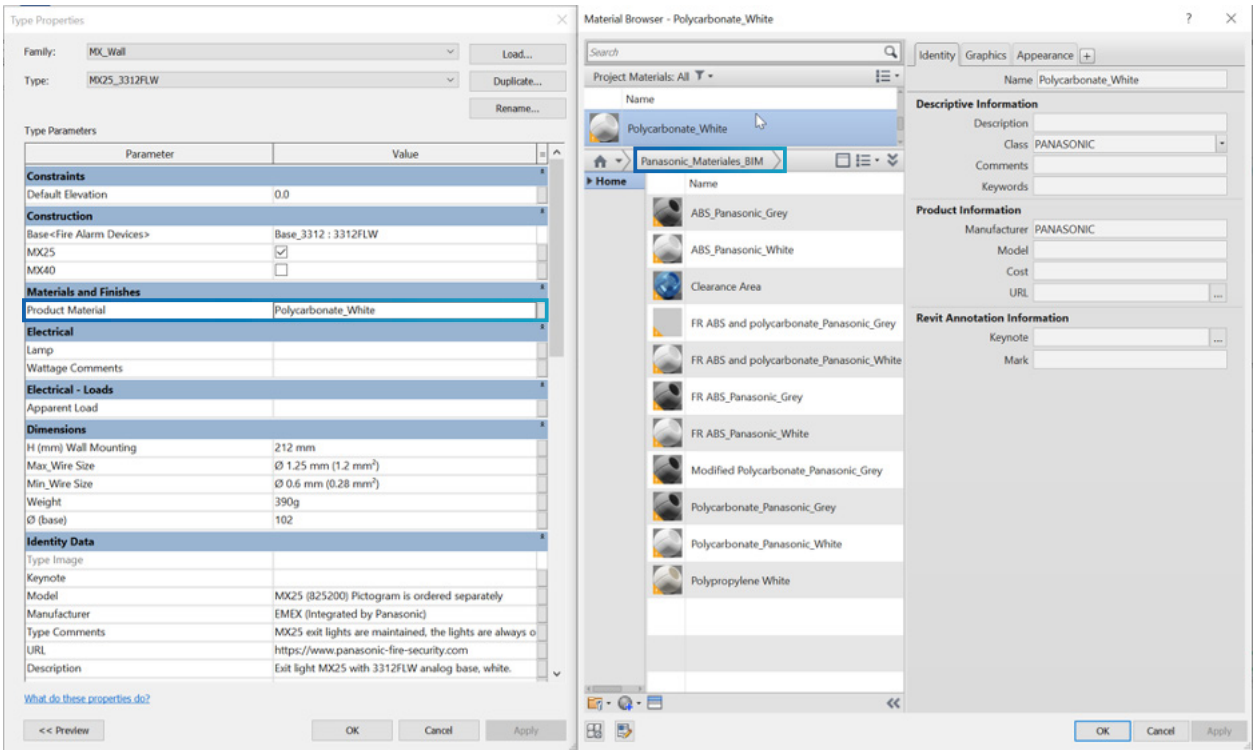
Step 6

Within the family properties, you will find the “Technical Number” parameter under the Data section. This parameter allows us to define it within our family, enabling classification and organization within the project.



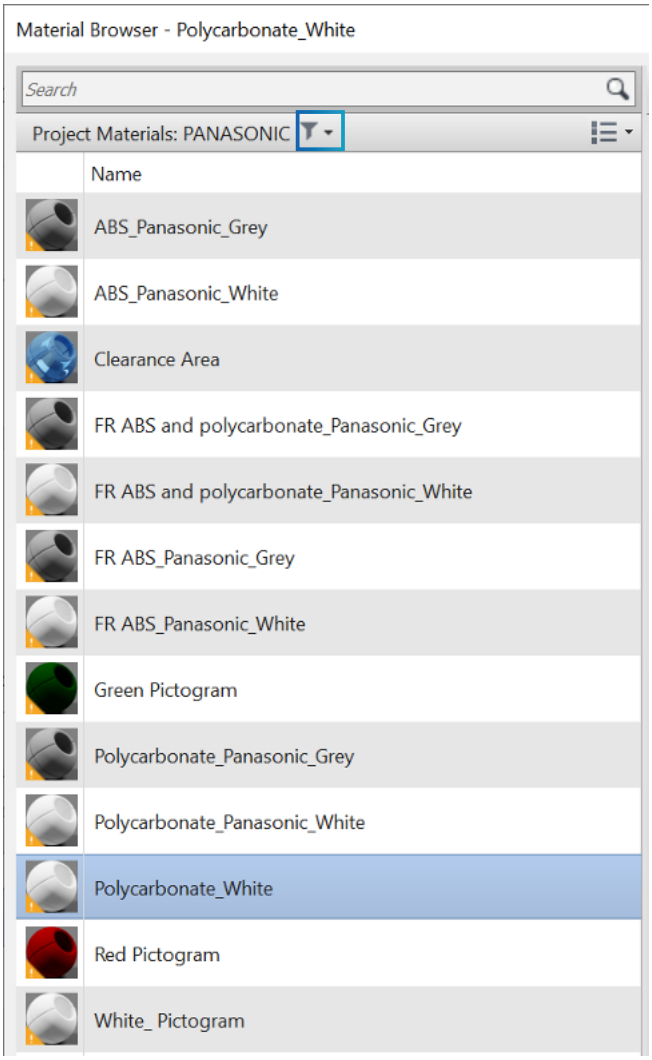
Materials

The material of the elements is pre-defined by the family. If there is a need to change the material in any of the families, you will also have access to the BIM Materials Library called "Panasonic_ Materials_BIM". This materials library can be added to your project to modify the BIM material if permitted. It may include multiple colors and may be required for the project.



NOTE

The materials have been classified as Panasonic, so that when you want to select materials using the filter, all available materials will appear.



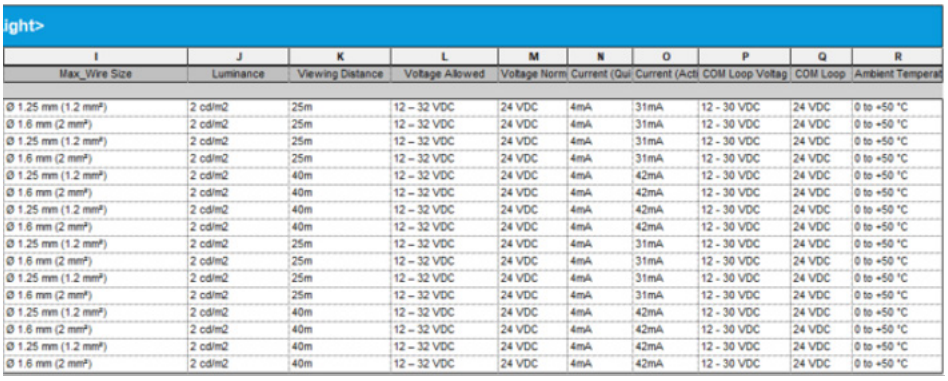
Showroom

In the *RVT file, we will have an exhibition of the different combinations of each family and each selectable options of position, size, and arrow direction (Lighting Devices only).

At the same time, a scheduling table has been generated:

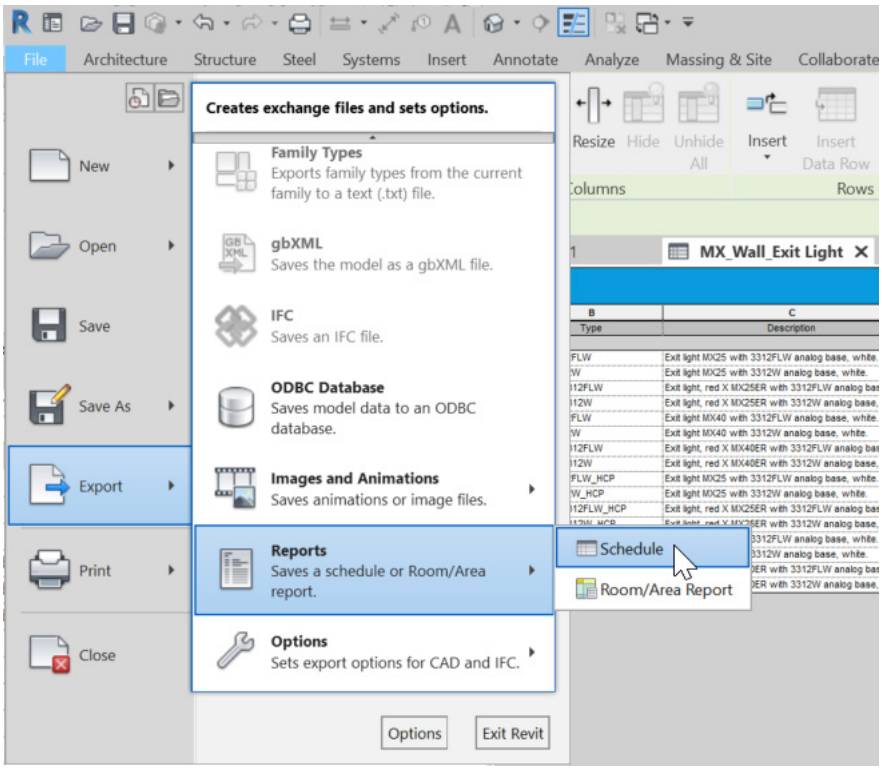
"**Family Name**": Here we will find the installed families with their selected functions and the most relevant technical information provided by the manufacturer, Panasonic.

<MX_Wall_Exit Light>								
A	B	C	D	E	F	G	H	I
Family	Type	Description	Ø (base)	H (mm) Wall	Weight	Product Material	Min_Wire Size	Max_Wire Size
MX_Wall	MX25_3312FLW	Exit light MX25 with 3312FLW analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall	MX25_3312W	Exit light MX25 with 3312W analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)
MX_Wall	MX25ER_3312FLW	Exit light, red X MX25ER with 3312FLW analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall	MX25ER_3312W	Exit light, red X MX25ER with 3312W analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)
MX_Wall	MX40_3312FLW	Exit light MX40 with 3312FLW analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall	MX40_3312W	Exit light MX40 with 3312W analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)
MX_Wall	MX40ER_3312FLW	Exit light, red X MX40ER with 3312FLW analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall	MX40ER_3312W	Exit light, red X MX40ER with 3312W analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)
MX_Wall_HCP	MX25_3312FLW_HCP	Exit light MX25 with 3312FLW analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall_HCP	MX25_3312W_HCP	Exit light MX25 with 3312W analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)
MX_Wall_HCP	MX25ER_3312FLW_HCP	Exit light, red X MX25ER with 3312FLW analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall_HCP	MX25ER_3312W_HCP	Exit light, red X MX25ER with 3312W analog base, white.	102	212 mm	390g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)
MX_Wall_HCP	MX40_3312FLW_HCP	Exit light MX40 with 3312FLW analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall_HCP	MX40_3312W_HCP	Exit light MX40 with 3312W analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)
MX_Wall_HCP	MX40ER_3312FLW_HCP	Exit light, red X MX40ER with 3312FLW analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.28 mm²)	Ø 1.25 mm (1.2 mm²)
MX_Wall_HCP	MX40ER_3312W_HCP	Exit light, red X MX40ER with 3312W analog base, white.	102	287 mm	705g	Polycarbonate_Whi	Ø 0.6 mm (0.3 mm²)	Ø 1.6 mm (2 mm²)



ight>									
I	J	K	L	M	N	O	P	Q	R
Max_Wire Size	Luminance	Viewing Distance	Voltage Allowed	Voltage Norm	Current (Qui	Current (Acti	COM Loop Voltag	COM Loop	Ambient Temperat
Ø 1.25 mm (1.2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.25 mm (1.2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.25 mm (1.2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.25 mm (1.2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.25 mm (1.2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.25 mm (1.2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	25m	12 – 32 VDC	24 VDC	4mA	31mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.25 mm (1.2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.25 mm (1.2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C
Ø 1.6 mm (2 mm²)	2 cd/m2	40m	12 – 32 VDC	24 VDC	4mA	42mA	12 - 30 VDC	24 VDC	0 to +50 °C

These tables can be exported to any project file for accurate quantity calculation.



Panasonic

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