

Fire and Security Specification

Object Styles Used

	Fire Alarm Devices	For all fire alarm devices including smoke and heat detectors		Generic Annotations	
	Detector Code Lines	For detectors symbolic code lines (showing the reach of them)		Fire Symbols	Allows for amendments of the lineweights and colours to all the linework within the symbols and leaders.
	Security Devices	For all security devices, alarm controls and alarm panels		Security Symbols	
	Specialty Equipment			Symbol Leaders	
	Fire Protection	For fire protection elements including fire hose reels and fire extinguishers		Detail Items	
	Sprinklers	For all fire sprinklers		Security Devices	Allows for amendments of the lineweights and colours of all the linework within the real-size alarm board symbols.
	Sprinkler Code Lines	For fire sprinklers symbolic code lines (showing the reach of the sprinkler)			

Detail Levels - all Fire and Security items

3d				The fine detail within the smaller objects (as shown in example) are created with model lines and/or model text. They will show on 3ds and elevations when the views visual style is set to wireframe, hidden, shaded, consistent colours or realistic and the detail level is set to "Fine"
Elevation				
Plan				All plan representation is as follows: Coarse detail level: Symbol only Medium detail level: Symbol and object Fine detail level: Object only

Detail Levels - Alarm Boards

ELEVATIONS AND 3D DETAIL LEVELS

Model and clearance zones show in Medium and Fine modes
Symbol shows in Medium and Coarse modes
Outline shows in 3d Coarse mode

Coarse: Plan real size symbol only shown	Medium: Plan real size symbol and real size unit shown	Fine: Plan real size unit shown

Use of Shared Symbol Families and Schedules

A lot of the symbols within the families require a certain set-up process to allow them to show on walls as well as on ceilings and also allows them to have automatic wall-ceiling symbol interchange. This set-up process requires them to be "shared" families.

One of the implications of sharing these nested families is that these symbols and light sources will schedule with the real fittings (resulting in double counting).

To counter this, all the shared symbol families have as many of their parameter values as possible assigned to "Symbol Only" - allowing you to filter them out from within your schedule so they are disregarded.

All of these symbols also appear within your project browser: their names all begin with "Symbol "

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-
-
-

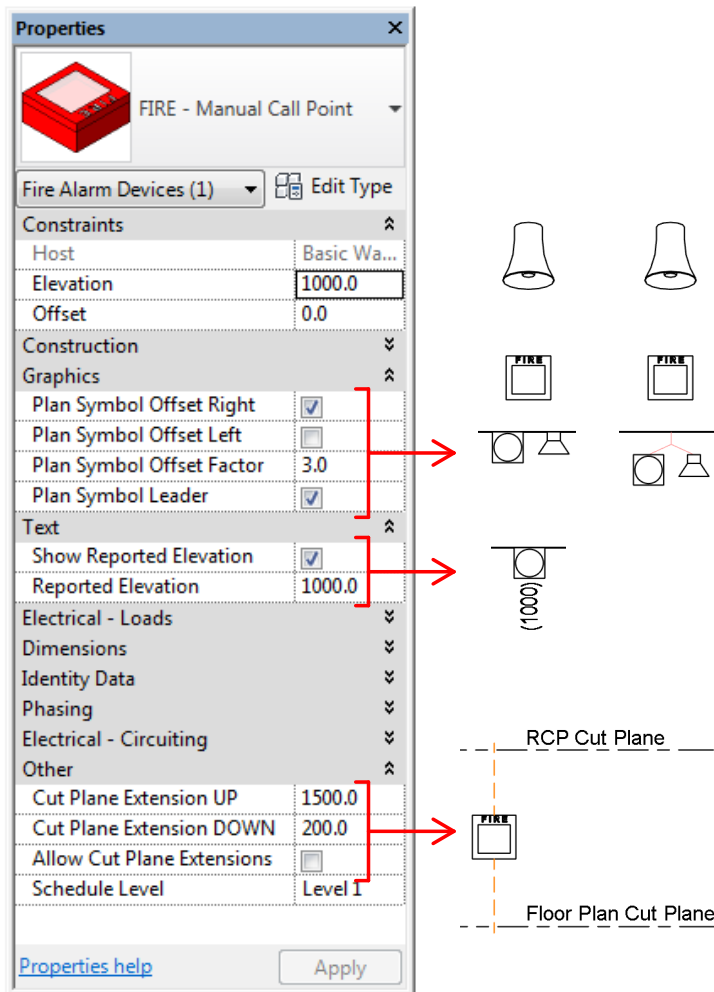
Example of shared symbol family naming

Type:	Symbol_Fire Detectors	Duplicate...
		Rename...
Type Parameters		
Parameter	Value	
Constraints		
Identity Data		
Type Comments	SYMBOL ONLY	
Model	SYMBOL ONLY	
Manufacturer	SYMBOL ONLY	
Description	SYMBOL ONLY	

Example of shared symbol family parameter values

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Common Instance Parameters



Plan Symbol Offsets and Leaders allow you to correctly document fixtures that are aligned vertically.

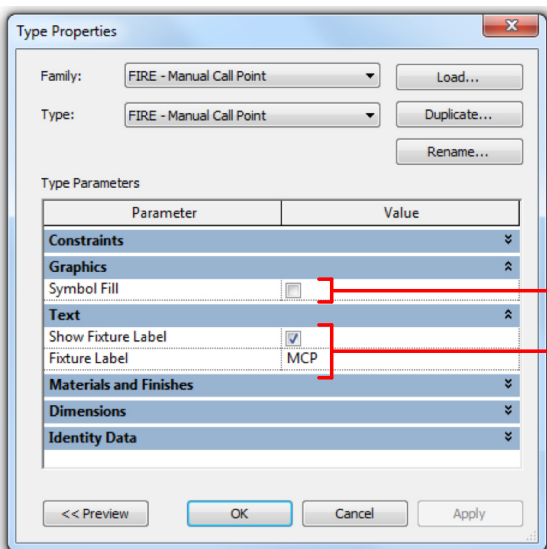
These parameters are not available for sprinklers and fire hose reels.

The Revit standard "Elevation" parameter cannot currently be used in labels, tags or schedules. To overcome this limitation use the "Reported Elevation" parameter.

The RevitWorks Elevation Reporter add-in (Premium version only) ensures that the "Elevation" and the "Reported Elevation" parameters are always synchronised. If the add-in is not loaded you will need to manually update it.

Cut Plane Extensions allow you to show low level components on your Reflected Ceiling Plans and high level components on your Floor Plans.

Common Type Parameters



All fixtures come with symbol fill options allowing for more graphical differentiation where required.









"Show Fixture Label" shows the "Fixture Label" text parameter as an annotation label within the family.

These labels are in a set position relative to the symbol and rotate with the family while staying readable.



















Alternatively, you could turn this off and tag your family which gives greater flexibility in the positioning and orientation of the label.

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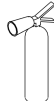

Fire Alarm Devices

	3d	Wall Symbol	Ceiling Symbol
 FIRE - Detectors			
Heat Detector			
Smoke Detector			















Fire Alarm Devices (Premium only)

 FIRE - Manual Call Point			
FIRE - Manual Call Point			
 FIRE - Sounder Horn			
FIRE - Sounder Horn			
 FIRE - Sounder Speaker			
136mm Diameter			
180mm Diameter			
 FIRE - Sounder Wall Plate			
FIRE - Sounder Wall Plate			
 FIRE - Strobe			
100 x90h			

Fire Controllers

	3d	Wall Symbol	Ceiling Symbol
 FIRE - Extinguisher			
FIRE - Extinguisher			

Fire Controllers (Premium only)

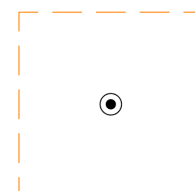
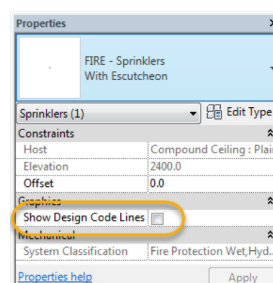
 FIRE - Sprinklers			
With Escutcheon			
Without Escutcheon			
 FIRE - FHR			
Recessed Cabinet			
Reel Only			
Surface Mounted cabinet			

NOTES!

1. 3d images as shown are in detail level "Fine mode"
2. Wall and ceiling symbols as shown are in detail level "Coarse" mode
3. All symbols can have labels added.
4. Labels as shown in images are the out-of-the-box defaults and can be easily changed or turned on/off from within the fixtures type properties (refer previous page for screenshot)

Additional Feature for Fire Sprinklers

All sprinklers have the ability to show the extent of the sprinklers reach by setting code line type parameters within the family and ticking the "Show Design Code Lines" instance parameter. These lines are on their own sub-category (as shown on page 1. "Object Styles Used") so can be turned off view-wide where required.

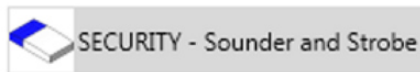


Content that works

www.revitworks.com

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Security Devices



SECURITY - Sounder and Strobe

3d



Wall Symbol



Ceiling Symbol



SECURITY - Strobe

100 x90h



Security Devices (Premium only)



SECURITY - Breakglass

SECURITY - Breakglass



SECURITY - Camera

Ceiling Mounted

Wall Mounted



SECURITY - Camera Enclosed

130mm



SECURITY - Credential Reader

80 x80 x20d



SECURITY - Door Release Push Button

SECURITY - Door Release Push Button



SECURITY - Door Release Request to Exit

SECURITY - Door Release Request to Exit



SECURITY - Keypad

85x122hx28d

190x135hx30d



SECURITY - PIR Sensor

100mm



SECURITY - PIR Sensor Directional

Ceiling 60w x100d

Wall 60w x100d



SECURITY - Sounder Horn

SECURITY - Sounder Horn



SECURITY - Sounder Speaker

136mm Diameter

180mm Diameter



SECURITY - Sounder Wall Plate

SECURITY - Sounder Wall Plate



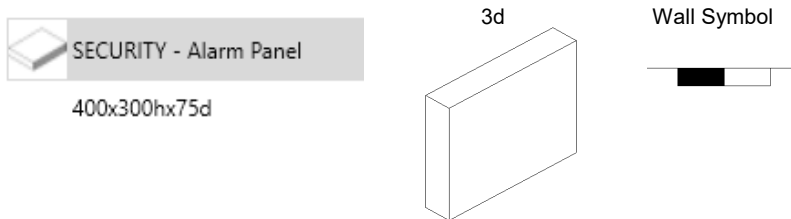
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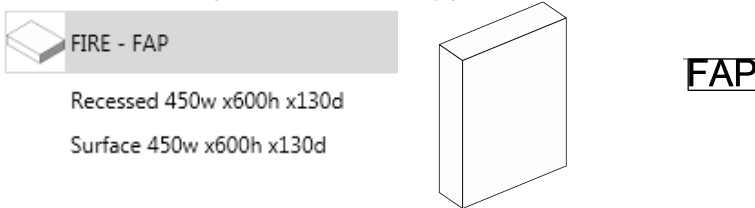
Fire and Security Specification

Alarm Panels

Refer page 1 for explanation of how symbols work at different detail levels.

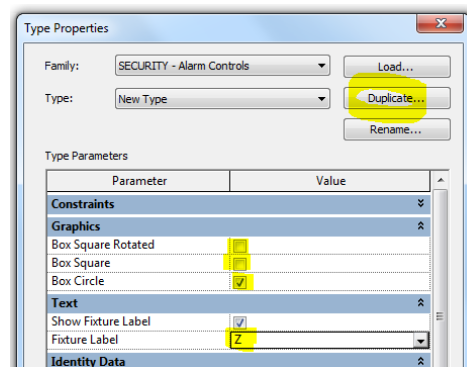
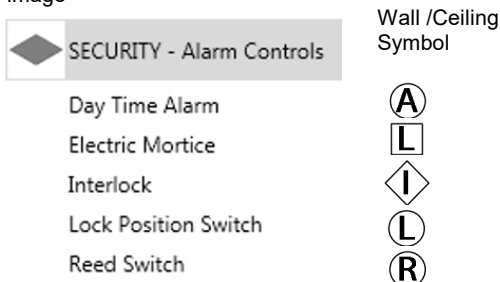


Fire Panels (Premium only)



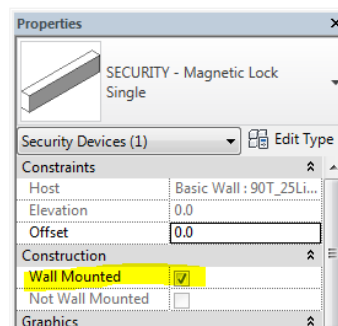
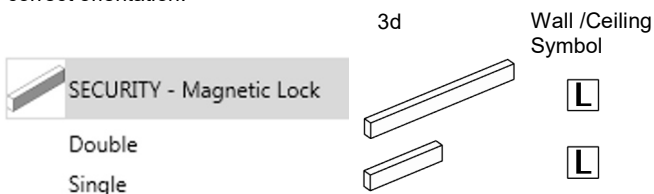
Alarm Controls (Premium only)

Alarm controls have no modelled elements but come with the correct security connectors and can be scheduled. To create more controls, duplicate existing type, change the label and select a square or circular border as per image



Magnetic Locks (Premium only)

Magnetic locks have modelled elements. They can be placed on any surface. If placed on a vertical surface (i.e. a wall), ensure "Wall Mounted" tickbox is ticked as per the image to ensure that the modelled elements are in the correct orientation:



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