







# Fire and Security Specification

## Object Styles Used

Communication Devices	For all audio devices (which are not for security or fire alarm purposes)	Generic Annotations	Allows for amendments of the lineweights and colours to all the linework within the symbols and leaders.
Fire Alarm Devices	For all fire alarm devices including smoke and heat detectors	Audio Symbols	
Detector Code Lines	For detectors symbolic code lines (showing the reach of them)	Fire Symbols	
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	Allows for amendments of the lineweights and colours of the linework within the real-size alarm board symbols.
Sprinklers	For all fire sprinklers	Security Devices	
Sprinkler Code Lines	For fire sprinklers symbolic code lines (showing the reach of the sprinkler)		

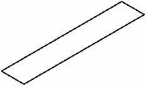
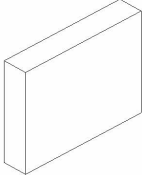
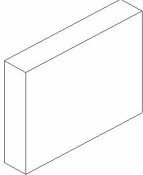



## Detail Levels - all Fire and Security items

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
	Coarse	Medium	
	Fine		

## 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

		
		
<b>Coarse:</b> Plan real size symbol only shown	<b>Medium:</b> Plan real size symbol and real size unit shown	<b>Fine:</b> 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.

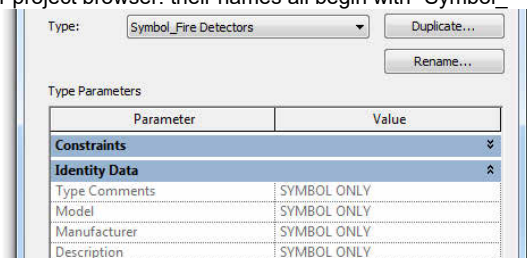
One of the implications of sharing these nested families is that these symbols will schedule with the real fittings (resulting in double counting).

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 "

- + Symbol\_Fire Detectors
- + Symbol\_Fire Horn
- + Symbol\_Fire Speaker
- + Symbol\_Fire Strobe

Example of shared symbol family naming

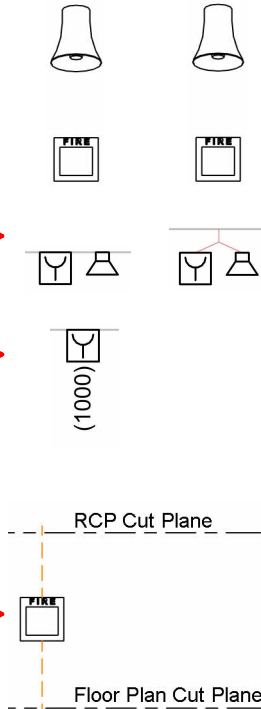
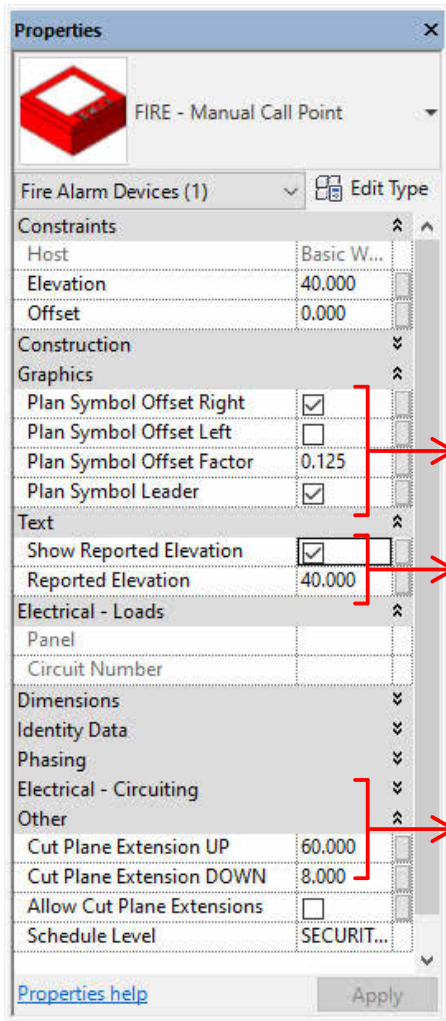


Parameter	Value
<b>Constraints</b>	
<b>Identity Data</b>	
Type Comments	SYMBOL ONLY
Model	SYMBOL ONLY
Manufacturer	SYMBOL ONLY
Description	SYMBOL ONLY

Example of shared symbol family parameter values

# Fire and Security Specification

## Common Instance Parameters



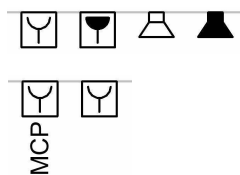
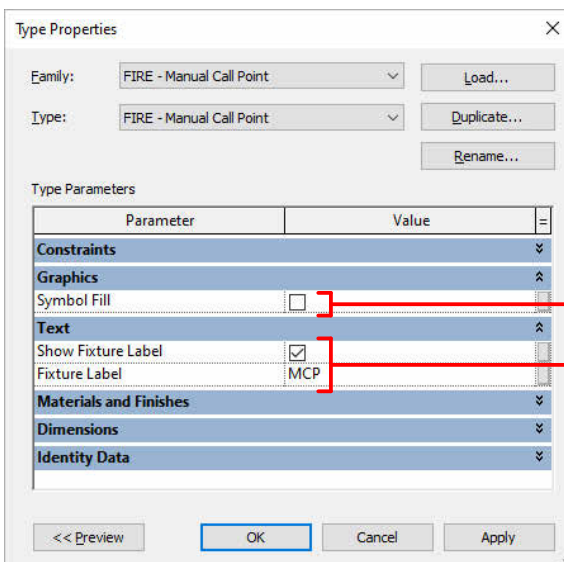
Plan Symbol Offsets and Leaders allow you to correctly document fixtures that are aligned vertically. These parameters are not available for sprinklers and fire hose reels.

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.

# Fire and Security Specification

## Fire Alarm Devices

### FIRE - Heat Detector

- Alarm
- Line Type
- Standard
- With Sounderbase  
within Air Duct

3D



Wall Symbol

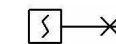
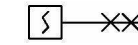


Ceiling Symbol



### FIRE - Smoke Detector

- Alarm
- Aspirating
- Duct Sampling
- Standard
- With Sounderbase  
within Air Duct



## Fire Alarm Devices (Premium only)

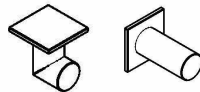
### FIRE - Manual Call Point

FIRE - Manual Call Point



### FIRE - Hold Open

4.75" x 2"Ø



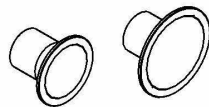
### FIRE - Speaker Horn

FIRE - Speaker Horn



### FIRE - Speaker

5.5"Ø  
7"Ø



### FIRE - Sounder

4"Ø



### FIRE - Sounder Wall Plate

FIRE - Sounder Wall Plate



### FIRE - Remote Indicator

3"Ø



### FIRE - Strobe

4" x 3.5" h

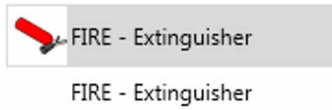


#### NOTES!

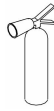
1. 3d images as shown are in detail level "Fine mode"
2. Wall and ceiling symbols as shown are in detail level "Coarse" mode
3. All symbols can have labels added.
4. Labels as shown in images are the out-of-the-box defaults and can be easily changed or turned on/off from within the fixtures type properties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

# Fire and Security Specification

## Fire Controllers



3D



Wall Symbol

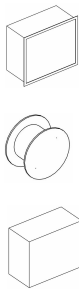
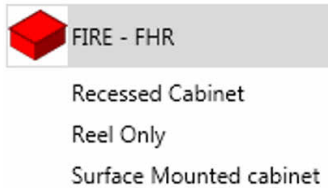
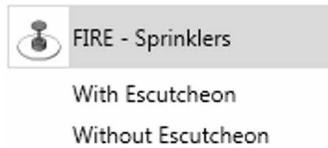


Ceiling Symbol

### NOTES!

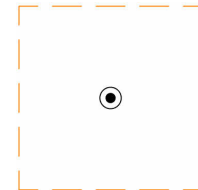
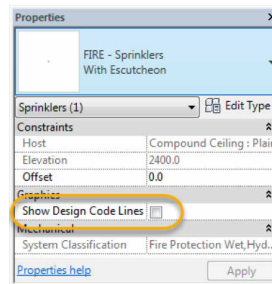
1. 3d images as shown are in detail level "Fine mode"
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## Fire Controllers (Premium only)



## 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.



## Security Devices



3D



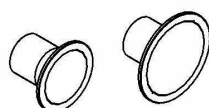
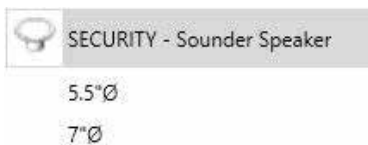
Wall Symbol



Ceiling Symbol





































## Security Devices (Premium only)



# Fire and Security Specification

## Security Devices (Premium only)

	3D	Wall Symbol	Ceiling Symbol
 SECURITY - Breakglass SECURITY - Breakglass			
 SECURITY - Camera Ceiling Mounted Wall Mounted	 		
 SECURITY - Camera Enclosed 5"Ø			
 SECURITY - Credential Reader 3.25" x3.25" x0.75"d			
 SECURITY - Door Release Push Button SECURITY - Door Release Push Button			
 SECURITY - Door Release Request to Exit SECURITY - Door Release Request to Exit			
 SECURITY - Keypad 3.5"x5"hx1"d 7.5"x5.5"hx1"d	 	 	
 SECURITY - PIR Sensor 4"			
 SECURITY - PIR Sensor Directional Ceiling 2.5"w x4" d Wall 2.5"w x4" d			

## Alarm Panels


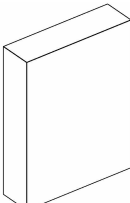




Refer page 1 for explanation of how symbols work at different detail levels.

 SECURITY - Alarm Panel 16"x12"hx3"d	
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### NOTES!

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## Fire Panels (Premium only)

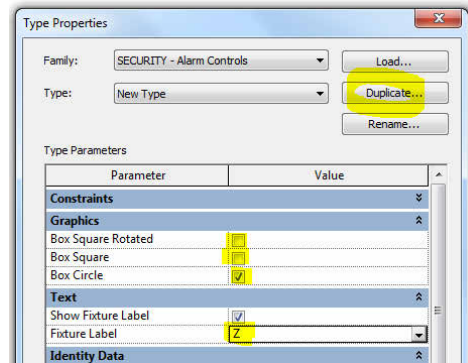
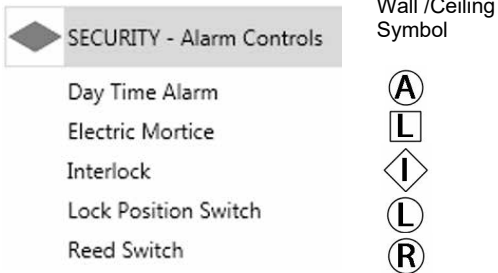
 FIRE - Panels FAP Recessed 18"w x24"h x5"d FAP Surface 18"w x24"h x5"d FFCP Recessed 18"w x24"h x5"d FFCP Surface 18"w x24"h x5"d		   
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# Fire and Security Specification

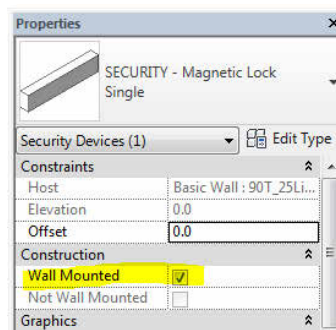
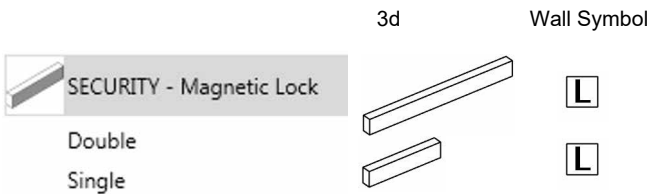
## Alarm Controls (Premium only)

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

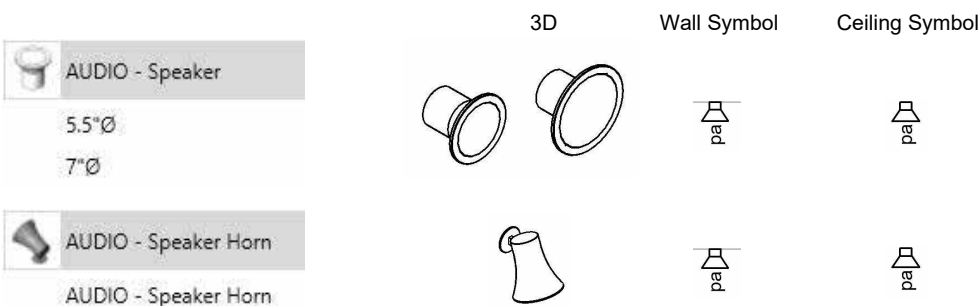


## Magnetic Locks (Premium only)

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:



## Audio Devices (Premium only)



### NOTES!

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