

Kane Detention – Revit Guide

This Revit Guide is intended to supplement the Kane Detention Revit Content Library which has been developed by Revitus. This is a basic guide and is not meant to be all-inclusive of the full functionality of the Kane Detention Revit Families. It will however give you an overview of the parameters included and how each Family is intended to be used.

Always make sure you are working with the latest available Version of the Kane Detention Revit Families. The Version has been included under “Identity Data” within the Type Properties of each Family file (as shown with the red arrows below). As of 02/01/2021, the latest Version is v3.1 for all Kane Detention and Kane Security BIM Files.

Identity Data	
URL	http://www.kaneinnovations.com/
Product Page URL	www.kaneinnovations.com/detention/maximum-security-barriers
Security Level	Level 9: Maximum Barrier Security
Model	G-V12-Z
Description	Vantage Wall Barrier
Parent Company	Kane Innovations
Manufacturer	Kane Detention
Manufacturer Phone Number	800.773.2439
Manufacturer Email Contact	mailto:help@kaneinnovations.com?Subject=Revit Inquiry
Manufacturer Address 1	2250 Powell Ave
Manufacturer Address 2	Erie, PA 16506
Copyright Notice	© Kane Innovations. All Rights Reserved.
Created By	Revitus
Creator URL	http://www.revituspro.com/
BIM Version Available (Earliest)	2011
BIM Version	v3.1
CSI MasterFormat	11 19 00
Assembly Code	E1020600

Click the URL paths to link directly to the Kane Innovations website to find more product information and other downloadable files.

Click the Manufacturer Email Contact link for easy access to help with these BIM Files.

Use the provided Mark or Model Number Specialty Equipment Tags to help Document, Schedule and Specify the Kane Detention products.

G-P12-Z

Vantage Wall Doors

Properties Panel:

- Specialty Equipment (1) Edit Type
- Constraints: Level: FIRST FLOOR
- Elevation from Level: 0' 0"
- Host: Level: FIRST FLOOR
- Offset from Host: 0' 0"
- Moves With Nearby Elements:
- Graphics: 2D Swing Angle: 90.00°

Type Parameters Panel:

Family: Detention_Door-Vantage_Wall-Kane_Detention-Pre_Hung-Transom-Level_9

Type: Galvannealed 12-Gauge - 3'-0" x 7'-0" **CHOOSE TYPE FIRST, THEN CHOOSE OPTIONS**

Parameter	Value
Constraints	
Default Elevation	0' 0"
Construction	
Middle Rail Type<Security Devices>	Pass Thru : Middle Rail DROP DOWN LISTS
Bottom Rail Type<Security Devices>	No Pass Thru : Bottom Rail DROP DOWN LISTS
Mounting Type	Reveal Mount
Main Frame Thickness	12-Gauge A60 Galvannealed Steel CUSTOM REVIT MATERIAL - SEE INSTRUCTIONS BELOW
Function	Operable - Hinged
Graphics	
Infill Graphics	Metal - Kane Detention - 2" Open Woven Rod -
Materials and Finishes	
Material	Powder Coat - Kane Detention - White
Infill Type<Generic Models>	.25 Inch Diameter Rod 2.25 Inches On Center (2 Inch
Dimensions	
Rough Width	3' 5"
Rough Height	10' 0"
Door Width	3' 0"
Door Height	7' 0"

CONTROL GRIPS FOR CHANGING ORIENTATION

Sliding Vantage Wall Doors

Properties Panel:

- Specialty Equipment (1) Edit Type
- Constraints: Level: FIRST FLOOR
- Elevation from Level: 0' 0"
- Host: Level: FIRST FLOOR
- Offset from Host: 0' 0"
- Moves With Nearby Elements:
- Graphics: Show Door Open: Show Door Closed: **UNCHECK TO SHOW DOOR IN OPEN POSITION IN 2D AND 3D**

Type Parameters Panel:

Family: Detention_Door-Vantage_Wall-Kane_Detention-Sliding-Transom-Level_9

Type: Galvannealed 12-Gauge **CHOOSE TYPE FIRST, THEN CHOOSE OPTIONS**

Parameter	Value
Constraints	
Default Elevation	0' 0"
Construction	
Middle Rail Type<Security Devices>	Food Pass Cuff Port : Middle Rail DROP DOWN LISTS
Bottom Rail Type<Security Devices>	Food Pass Cuff Port : Bottom Rail DROP DOWN LISTS
Mounting Type	Reveal Mount
Main Frame Thickness	12-Gauge A60 Galvannealed Steel CUSTOM REVIT MATERIAL - SEE INSTRUCTIONS BELOW
Function	Operable - Sliding
Graphics	
Infill Graphics	Metal - Kane Detention - 2" Open Woven Rod - White
Materials and Finishes	
Material	Powder Coat - Kane Detention - White
Infill Type<Generic Models>	.25 Inch Diameter Rod 2.25 Inches On Center (2 Inch Open Area
Dimensions	
Sidelight Brace Height	3' 7 1/4"
Rough Width	6' 4"
Rough Height	10' 0"
Filler Rail Height	0' 11"
Door Width	3' 0"
Door Height	7' 0"



Security Plank Ceilings

Properties

Detention_Ceiling-Kane_Detention-(G-CLG-N,T)-Level_9
Acoustical Panel with Top Plate

Specialty Equipment (1) Edit Type

Constraints

Level	FIRST FLOOR
Elevation from Level	0' 0"
Host	Level : FIRST FLOOR
Offset from Host	0' 0"
Moves With Nearby Elements	<input type="checkbox"/>

Electrical - Lighting

Show Light Fixture	<input checked="" type="checkbox"/>
Light Offset Dim from Center	1' 0"

Electrical - Loads

Panel

Circuit Number

Dimensions

Width	11' 8 1/4"
Length	8' 0 3/8"
Height	9' 0"

Identity Data

Type Properties

Family: Detention_Ceiling-Kane_Detention-(G-CLG-N,T)-Level_9 Load...

Type: Acoustical Panel with Top Plate
Acoustical Panel - No Top Plate
Acoustical Panel with Top Plate
Solid Panel - No Top Plate
Solid Panel with Top Plate Duplicate... Rename...

Type Parameters

Parameter	Value
Constraints	
Default Elevation	0' 0"
Graphics	
No Top Plate	<input type="checkbox"/>
Top Closure Plate	<input checked="" type="checkbox"/>
Solid Panel	<input type="checkbox"/>
Acoustical Panel	<input checked="" type="checkbox"/>
Text	
Mullion Note	Mullion required for spans exceeding 12 Feet
Materials and Finishes	
Plank Gauge<Generic Models>	14-Gauge A40 Galvannealed Steel
Perforated Panel Color	Metal - Kane Detention - Perforated Panel - Whit
Material	Powder Coat - Kane Detention - White

NO NEED TO MODIFY THESE - CHOOSE TYPE ABOVE

SET CEILING HEIGHT HERE

Security Plank Ceilings should be placed in a Reflected Ceiling Plan using the Component tool. During placement, use the spacebar to rotate the ceiling object (categorized as Specialty Equipment) to the required orientation. Free place it in the vicinity of where it needs to go, and then use the Align tool to resize it to the required perimeter. The Number of Panels will adjust automatically based on the Width. The Light Fixture will stay in the center panel (or one panel off from center if using an even number of panels). Adjust the Height of the Ceiling using the instance-based Height Parameter on the Properties Window.

Modesty Panel

Properties

Detention_Modesty_Panel-Kane_Detention-(S,X-MOD-Z)
48" x 36" - Steel

Specialty Equipment (1) Edit Type

Constraints

Level	FIRST FLOOR
Elevation from Level	0' 0"
Host	Level : FIRST FLOOR
Offset from Host	0' 0"
Moves With Nearby Elements	<input type="checkbox"/>

Graphics

Show Finish Ceiling Trim	<input checked="" type="checkbox"/>
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Electrical - Loads

Panel

Circuit Number

Dimensions

Structural Ceiling Height	8' 6"
Finish Ceiling Height	7' 6"

Identity Data

Image

Comments

Mark

Phasing

Phase Created	New Construction
Phase Demolished	None

Type Properties

Family: Detention_Modesty_Panel-Kane_Detention-(S,X-MOD-Z) Load...

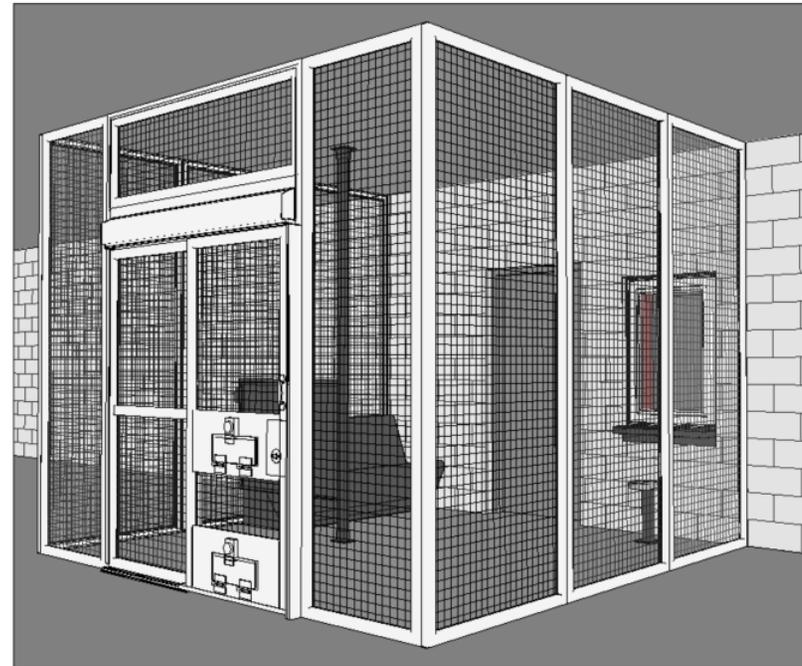
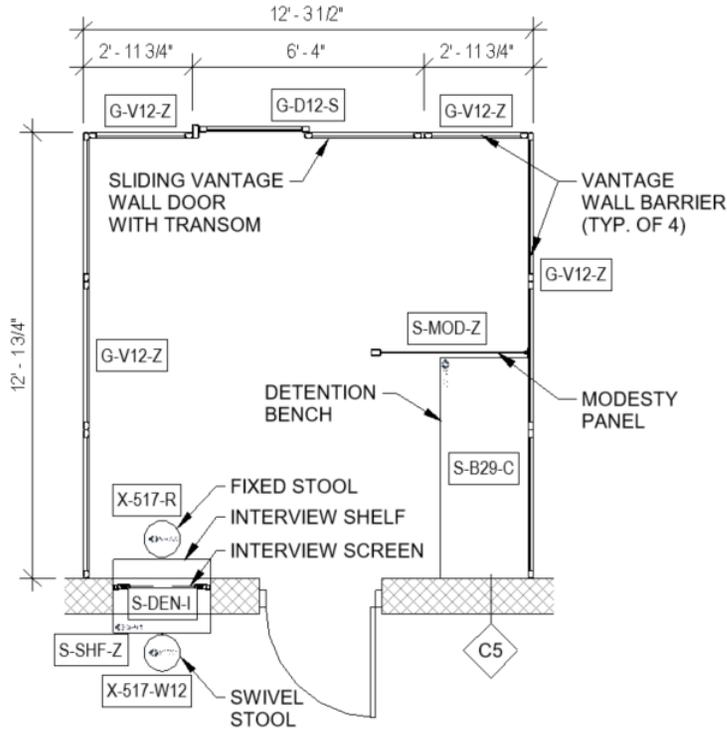
Type: 48" x 36" - Steel
48" x 36" - Stainless Steel
48" x 36" - Steel Duplicate... Rename...

Type Parameters

Parameter	Value
Constraints	
Default Elevation	0' 0"
Graphics	
Show Reinforcing Tube	<input checked="" type="checkbox"/>
Materials and Finishes	
Material	Powder Coat - Kane Detention - Grey
Dimensions	
Width	4' 0"
Height	3' 0"
Identity Data	
URL	http://www.kaneinnovations.com/
Product Page URL	www.kaneinnovations.com/detention/furniture-e
Parent Company	Kane Innovations
Model	S-MOD-Z
Manufacturer Phone Number	800.773.2439
Manufacturer Email Contact	mailto:help@kaneinnovations.com?Subject=Revi
Manufacturer Address 1	2250 Powell Ave
Manufacturer Address 2	Erie, PA 16506
Manufacturer	Kane Detention

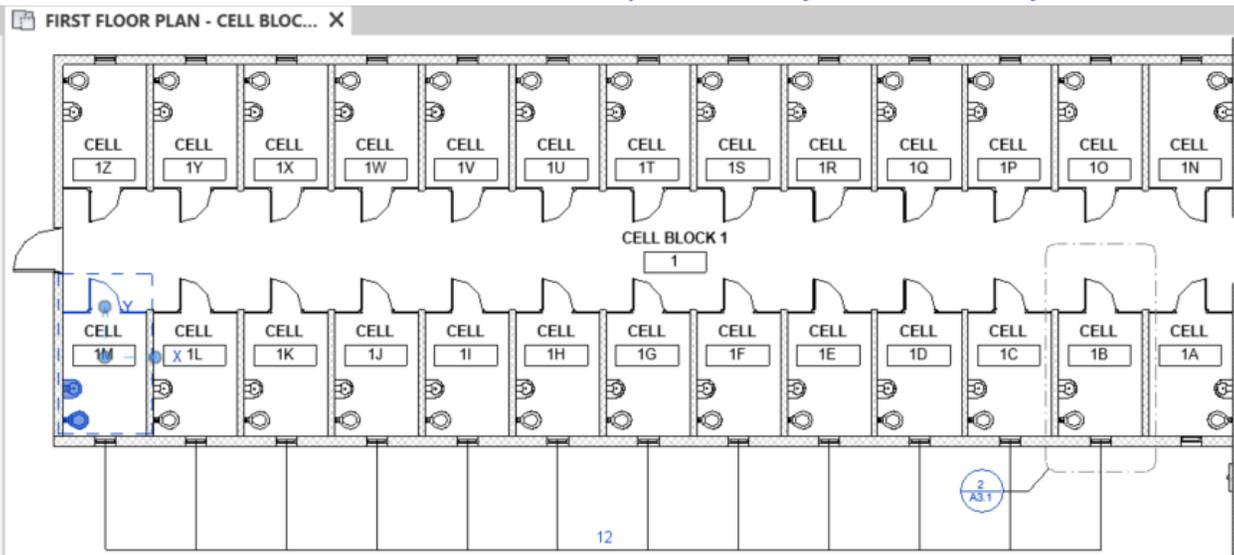
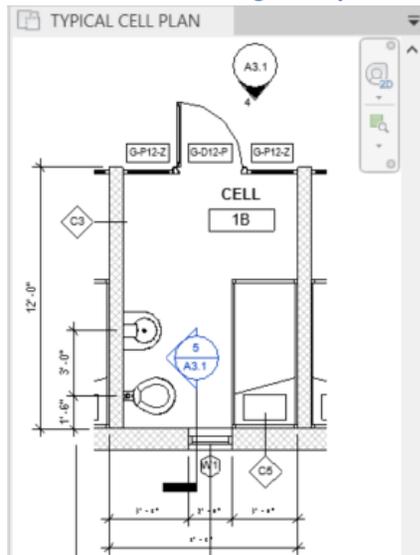


Create Complete Layouts



Plan View showing multiple Kane Detention Products

3D Interior Perspective View of the Plan to the Left



Typical Cell Layout

Cell Block Floor Plan showing Typical Cell Layout, turned into a Model Group, and Arrayed 12 Times



Detention Interview Screen

The screenshot displays the Revit interface for the Detention Interview Screen. On the left, the Properties panel shows the object's name, family, and various parameters. The 3D View 2 shows a window with a wire mesh screen, a fixed stool (X-517-R), a swivel stool (X-517-W12), and an interview shelf (S-SHF-Z). The Type Properties panel on the right shows the object's family, type, and various parameters including constraints, construction, graphics, text, materials, and dimensions.

Parameter	Value
Constraints	
Default Elevation	0' 0"
Show Center Mullion	<input type="checkbox"/>
No Center Mullion	<input checked="" type="checkbox"/>
Construction	
Function	Fixed
Mounting Type	Reveal Mount
Graphics	
Screen Infill	Metal - Screen Infill - Kane Detention - Wire Cloth
Primary Finish Graphics	Powder Coat - Kane Detention - White
Text	
Vertical Mullion Note for 10-Mesh	Vertical Mullion Required for each 54 Inches of Wid
Vertical Mullion Note for 12-Mesh	Vertical Mullion Required for each 66 Inches of Wid
Horizontal Brace Note	No Brace Required
Maximum Panel Size Limitation	120 Inches x 54 Inches or 120 Inches x 66 Inches
Materials and Finishes	
Primary Finish-<Specialty Equipment>	Powder Coat - White
Infill Finish	Mill Finish (Stainless Steel)
Infill Type-<Generic Models>	Wire Cloth - 12-Mesh, .028-inch Diameter Stainless
12 Mesh Infill	<input checked="" type="checkbox"/>
10 Mesh Infill	<input type="checkbox"/>
Dimensions	
Width	2' 8"
Height	4' 0"

The Detention Interview Screen is the only Kane Detention Revit Object that requires a Wall to act as a Host. Insert it using the Component tool. Use the instance-based Wall Inset parameter to adjust its position within the wall's thickness. When duplicating to make additional sizes (Family Types), follow the format of Inches Wide x Inches High for the Type Name (i.e., 48" x 48").

The Fixed Stool, Swivel Stool and Interview Shelf shown in the graphic above are all freely placed objects that are very simple to work with.

The following page will outline the steps for configuring the Custom Kane Detention Revit Materials to render properly with the supplied Image Files.

To watch a Video Demonstration on YouTube, go to <https://youtu.be/xZcHe0ta-FU?t=1998>

The video should start at 33:18, which is when Kane Detention is discussed. If the video starts at the beginning, skip ahead to 33:18.



Custom Revit Materials (readme.txt)

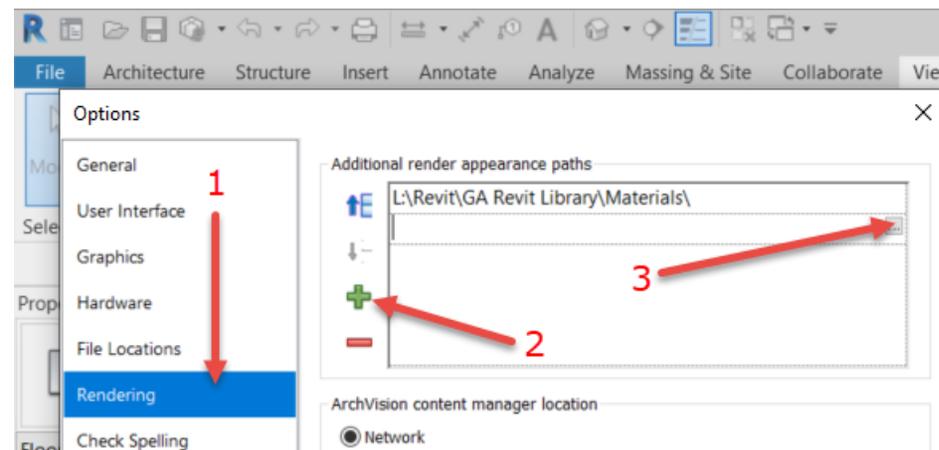
Kane Detention Custom Revit Material

Referenced Files:

Metal_Woven_Rod-Kane_Detention.jpg

Metal_Woven_Rod-Kane_Detention-Cutout.jpg

One custom Revit Material was created that requires the two .jpg image files referenced above. This custom Revit Material is included in several Kane Detention Revit Families. This readme file explains how to get this custom material to render properly on your computer.



Some of the Kane Detention Revit Families utilize a Custom Revit Material that has been created to allow the objects to render more accurately than any of the pre-defined Revit material options. For your convenience, these custom images have been zipped with the Revit Family prior to download. After you extract the contents of the .zip file, cut and paste the two .jpg files to a location on your network (preferred) or local computer. Then, set the path in Revit Options by going to the Revit Application Icon, choose Options, go to the Rendering Tab, and use the green + sign to add "Additional Render Appearance Paths". Browse to the folder where you saved the .jpg files, and your computer should now be able to properly locate the render appearance accordingly. This will only be evident in the "Realistic" visual style, or if you actually render a scene with these objects in the view.

Note: this render appearance path will need to be set for each computer in your office that needs to locate these render appearance files. If you have any additional custom image files for other Revit materials, they can be put in this same folder and Revit will automatically locate them since it is already pathed to look there.

You will only have to save the extracted .jpg files and set this path one time. If you download two (or more) Kane Detention .zip file Families that require this Custom Revit Material, you can simply discard the additional files that are extracted since they are simply duplicates of the .jpg files you already saved. Just keep the .rfa file from each .zip file for your Revit Content Library.

The current list of Kane Detention Families that use this one Custom Material include the following:

Detention_Door-Vantage_Wall-Kane_Detention-Pre_Hung-No_Transom-Level_9.rfa

Detention_Door-Vantage_Wall-Kane_Detention-Pre_Hung-Transom-Level_9.rfa

Detention_Door-Vantage_Wall-Kane_Detention-Sliding-No_Transom-Level_9.rfa

Detention_Door-Vantage_Wall-Kane_Detention-Sliding-Transom-Level_9.rfa

Detention_Holding_Cell-Kane_Detention-(S-HLD-S)-Level_9.rfa

Detention_Vantage_Partition_Barrier-Kane_Detention-Level_8.rfa

Detention_Vantage_Partition_Barrier-Kane_Detention-Unequal_Leg-Level_8.rfa

Detention_Vantage_Wall_Barrier-Kane_Detention-Level_9.rfa

** End of File **

