

Swifts[®] cable ladder

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PRODUCT BIM USER GUIDE /
REVIT SYSTEM USER GUIDE

 **legrand[®]**

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Legrand - Swifts® Cable Ladder - BIM System

Thank you for downloading the Legrand Swifts® Cable Ladder System. This user guide has been included to provide guidance on how to correctly use and make the most of the Legrand Swifts® BIM content.

The zip folder you have just downloaded includes 3 grade variations of the Swifts® Cable Ladder System.

- Topaz (Medium Duty)
- Sapphire (Heavy Duty)
- Emerald (Extra Heavy Duty)

Each of the above listed ranges has been provided as a separate Revit project file (.rvt) which contains a set of pre-configured cable ladder systems based on the finish of the product. These sets will allow the specifier to simply draw the cable ladder route and have the required fittings automatically place within the system. The unique Legrand scheduling sheets have also been pre-configured to allow a user to simply quantify and source product codes (Cat Nos.) automatically.



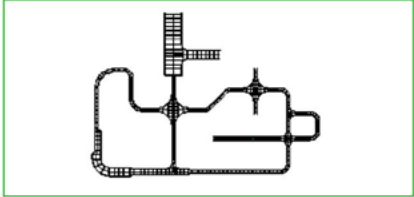
Swifts® Cable Ladder
Medium Duty (Topaz)

Please refer to the provided guidance notes and user guide for instructions on how to use the complete Swifts® Cable Ladder System.

Pre-Configured Systems

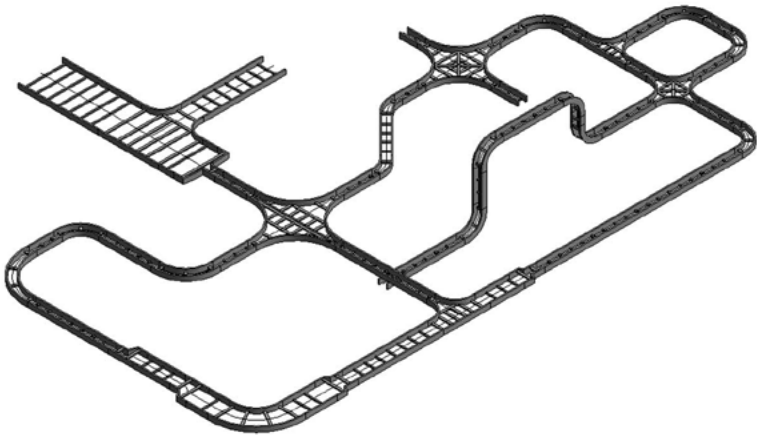
Galvanised (G) Hot dip galvanised after manufacture to BS EN ISO 1461 : 2008	Deep Galvanised (D) Deep galvanised high silicon steel made from BS EN 10025-5 : 2004 Grade S355J0MP
Stainless Steel (S) Stainless steel to BS EN 10088 - 2 grade 1.4404 (equivalent to 316L31)	Powder Coated (E) Powder coated (to customer's specification)

System Example



Guidance Notes:

Please refer to the provided guidance notes and user guide for instructions on how to use the complete Swifts® Cable Ladder System.



Loading the Legrand Swifts® Cable Ladder System in to your project

Autodesk Revit has a standard cable ladder / cable tray system and the Legrand Swifts® Cable Ladder components have been created as a set of straight lengths and cable tray fittings in accordance with the software structure. Upon opening the downloaded Revit project file (.rvt) you will find displayed a product overview of the system. This provides guidance notes and examples of the Swifts® Ladder system in use.

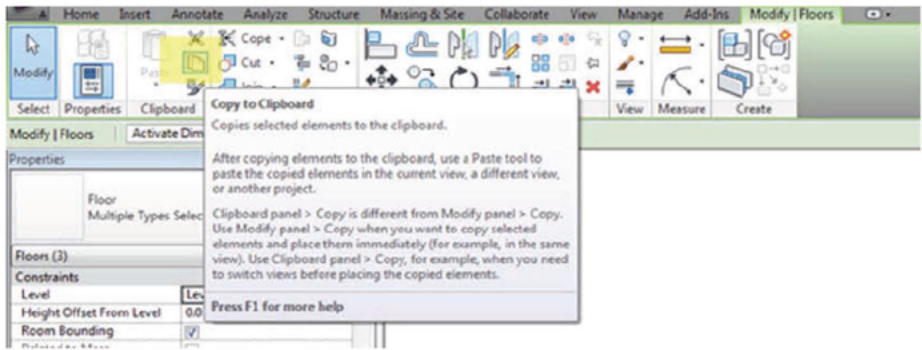
The Swifts® Ladder components can easily be copied and pasted in to your own project BIM. This can be done by using the following method;

1. Open your Revit project BIM and navigate to an appropriate view (plan view is recommended)
2. Now open the Legrand Swifts® Cable Ladder project file that you have just downloaded. There will be a choice of Topaz, Sapphire & Emerald systems. The default view that should open will be the 'product overview' view.
3. Now select the parts you wish to copy (hold Ctrl to select multiple) the cable ladder components selected will turn blue. Please note that if you select only the straight lengths the pre-configured fittings assigned to this ladder system will also be copied across.

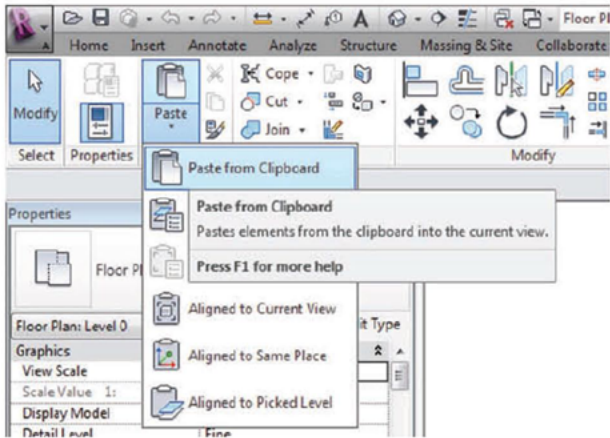
Pre-Configured Systems

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4. Now copy these components to your clipboard (shortcut Ctrl+C) or by clicking the copy button on the Revit ribbon as shown below.



5. Return to your project (plan view recommended) and you can paste the ladder system into your project (shortcut Ctrl+P). There is also a paste button under the modify tab on the main Revit ribbon as shown below.

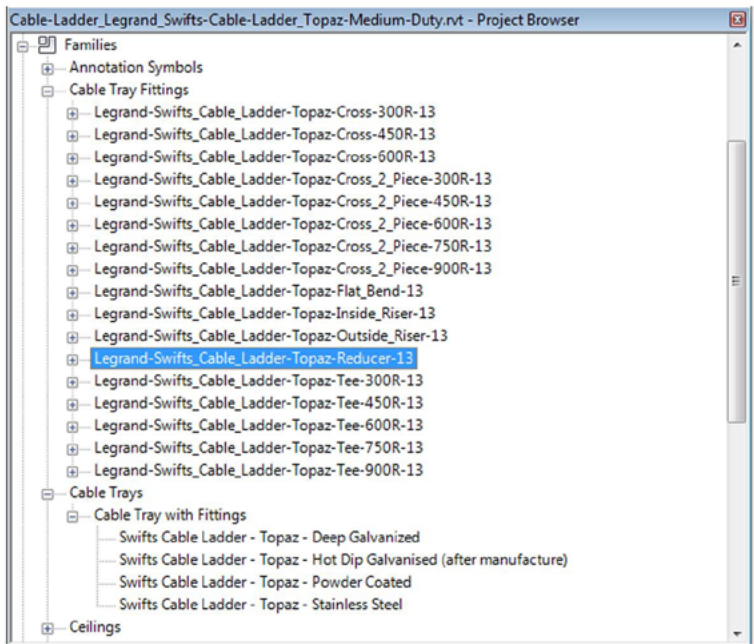


6. The cable ladder system is now copied & embedded into your project and can be selected from the cable tray / cable tray fittings selector on the ‘Systems’ tab of your project BIM. You can delete the items you pasted and the cable tray system will remain within your project unless purged out.

Please note that the pre-configured systems provided have been agreed with Legrand. There are additional parts which have been included in the download but are not part of the pre-configured systems. These parts are intended to be swapped out as the user requires and this is explained later in this user guide. These parts not included in the pre-configured systems will not automatically copy across. These include;

- Tees (at radius above 300mm)
- Cross (at radius above 300mm)

You can view all of the available fittings included in Swifts® Ladder Range by navigating through the ‘Project Browser’ under - Families / Cable Tray Fittings. These fittings are modelled as standard families and if required you can add them to your project by right clicking the item in the ‘Project Browser’ and selecting ‘Edit’. This will open up the family, it can be added to your project by simply choosing the ‘Load into Project’ button on the main Revit ribbon.



Using the Legrand Swifts® Cable Ladder system

Before providing an overview of how the Legrand Swifts® Cable Ladder Systems works it is important to raise a few key points that have been taken into consideration during the creation of this BIM content.

Available Widths

Autodesk Revit Software works in a slightly different fashion to the way Legrand measure their Swifts Cable Ladder Products.

Legrand dimensions are provided as the overall rung length (not including end profiles), whereas Revit measures the whole width (including end profiles).

As a result to ensure accurate sizing of the Swifts Cable Ladder BIM Components inline with the actual product additional sizes have been created to allow the system to be correctly sized. Please note the following size conversions;

- 150mm (rung width) = 194mm (total width)
- 300mm (rung width) = 344mm (total width)
- 450mm (rung width) = 495mm (total width)
- 600mm (rung width) = 644mm (total width)
- 750mm (rung width) = 794mm (total width)
- 900mm (rung width) = 944mm (total width)

All product coding (Cat Nos.) are set up correctly as per Legrand referencing. i.e 194mm wide = 150mm product ref

All Cable Ladders have the following height requirements based on grade:

- Topaz (Medium Duty) = 100mm High
- Sapphire (Heavy Duty) = 125mm High
- Emerald (Extra Heavy Duty) = 150mm

It is important that these size conversions and sizes are understood. For additional guidance please contact Legrand directly.

Weight (kg)

All weights given are in kilograms (kg) and are for Hot Dip Galvanised (G) finish. To obtain the appropriate component weight in other finishes, multiply the given weight by the following factors:

- Deep Galvanised (D) x 1.07
- Stainless Steel (S) x 0.94
- Powder Coated (E) x 0.97

Rungs

Type 1 rungs (42x21mm) are used as standard on all Swifts® Cable Ladder Systems All BIM components are set with Type 1 rungs as standard.

Type 2 and 3 rungs are only available to special order. Refer to literaturefor guidance.

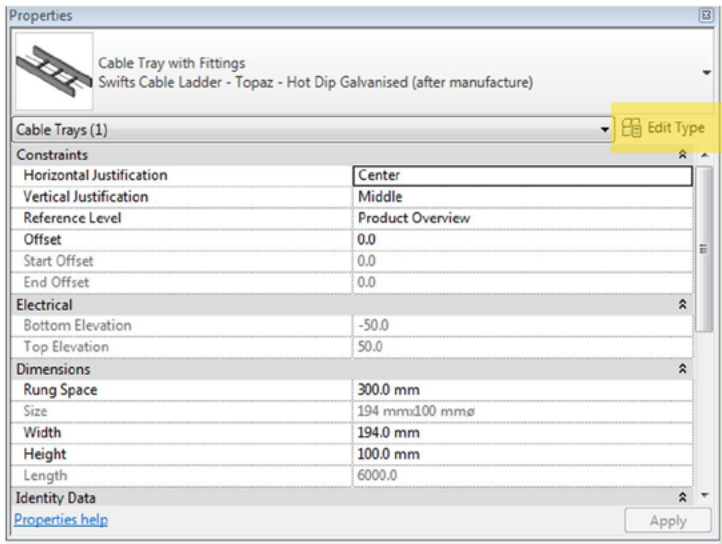
Type 1 can be supplied in any combination to special order.

Pre-configured systems and drawing your Swifts® Cable Ladder system

As previously referenced the Swifts® Cable Ladder systems are provided with a set of pre-configured fittings to allow the user to quickly draw their system and have the correct parts automatically place themselves.

To view the pre-configured settings is simple. Simply select a straight length of cable ladder or navigate to the ‘systems’ tab on the main Revit ribbon and select ‘Cable Tray’. In the ‘Properties’ dialogue box typically located on the left hand side of the screen you will see a drop down which will list the available types of cable ladder in the project.

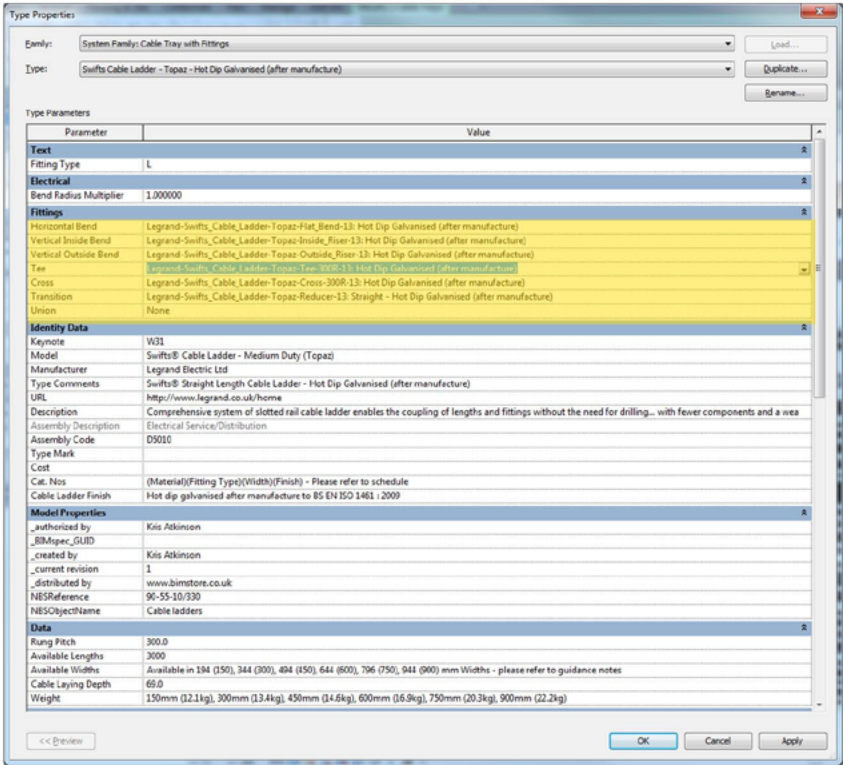
Select the ladder range you wish to view/amend the configuration for and click the ‘Edit Type’ button as illustrated.



The ‘Type Properties’ dialogue box will now appear. This provides all of the data regarding the straight lengths of cable ladder, including product coding (Cat Nos.), URL links to product documentation as well as available size info.

Under the heading ‘Fittings’ is the list of pre-configured elements for each part of the cable ladder system. To alter or amend the system simply click to the right hand of the listed element to bring up the user selectable list of options. Scroll through and select your required fitting. If you have not copied across all elements we recommend referring back to the original download file to configure your system before copying across to your project BIM.

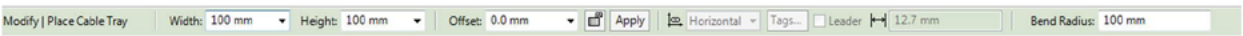
Please note it is recommended that fittings selected match the finish of the straight length unit.



With your cable ladder system configured to your requirements you are now ready to draw your ladder system.

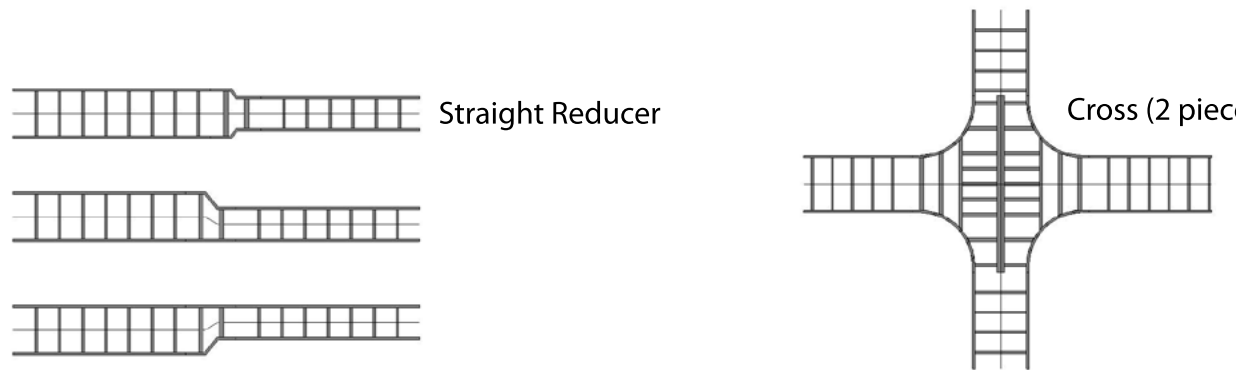
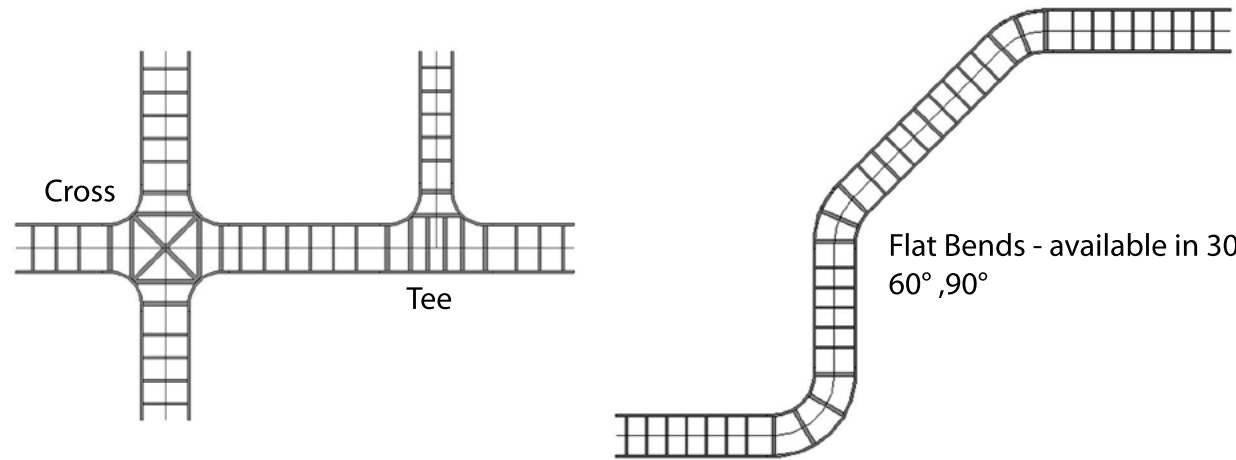
In an appropriate view, navigate to the ‘systems’ tab on the main Revit ribbon. Under the ‘Electrical’ section are all the available options for cable tray / ladder creation. Select the ‘Cable Tray’ button. As previously the ‘Properties’ dialogue box will appear on the left hand side of the screen. Use the drop down at the head of this box to select your required cable ladder type and finish.

With your type selected but before drawing your first length you will see the following tool bar appear under the main Revit ribbon.



This tool bar provides you with the available size options for the system. Use the drop down for ‘Width’ to choose your required available size of the ladder. Height can also be selected however the Legrand Swifts® systems have a fixed height depending on grade as stated previously in the user guide. Please note the size conversion as previously mentioned in this user guide.

Now in the main model space click to begin drawing your first length. You can now drag and click to place the straight length element or simply type in a dimension and hit enter to place the length at a more specific length. You can continue to click and draw your ladder system in your desired direction. Because of your pre-configured system you can continue to draw in different directions, tees, cross's, vertical and the parts will automatically appear as per the images below.

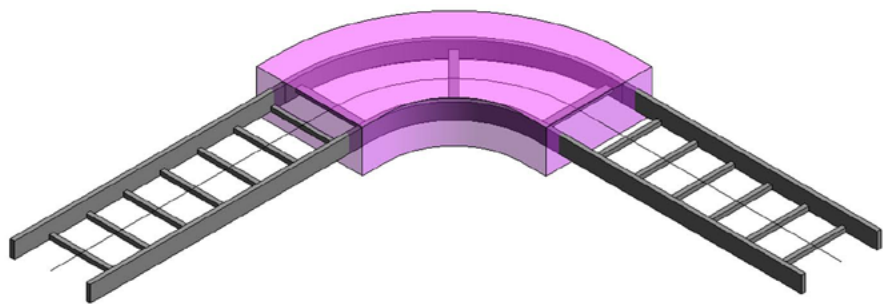


Specification guidance and error boxes

The Legrand BIM content has been created to maximise the speed and ease of use of installing a Cable System, but also to reduce misspecification and provide guidance on where your system may be going wrong.

Each of the cable tray fittings (i.e. all parts except straight lengths) have been built with a visible 'Error' box to clearly indicate if the part placed in the system is actually available. Parametric formula has been used within these components to ensure that if misspecified the error box will appear and provide information relating to why the error is occurring.

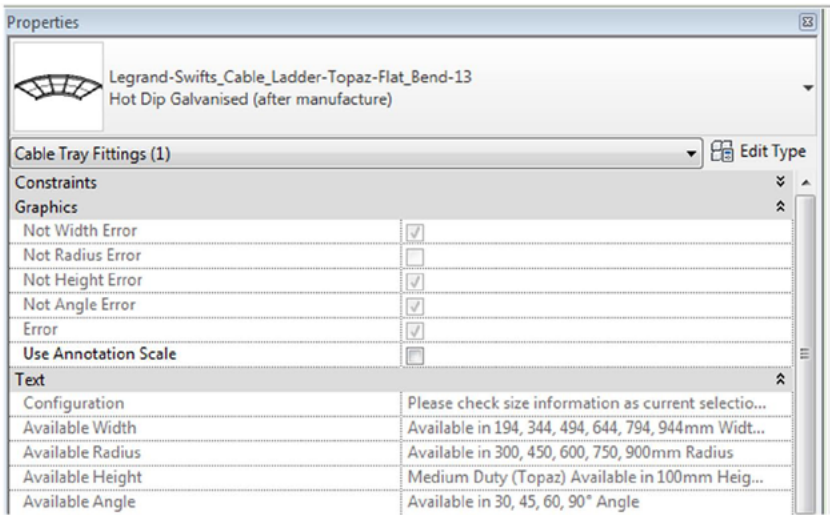
The Error box can is represented by a transparent pink box and can be seen in the below image.



As well as the visual prompt for an error occurring, the error column has also been included in the schedules provided with the Swifts® Cable Ladder systems. Instruction on how to use these is provided further on in this user guide.

With errors visible in the system we can now assess each instance and understand why this is occurring. To be provided with guidance on why the error is appearing, select the fitting which the error is appearing on.

With the fitting selected the 'Properties' dialogue box will appear in the usual location. Under the headings 'Graphics' & 'Text' is information that will provide guidance as to why the error is occurring.



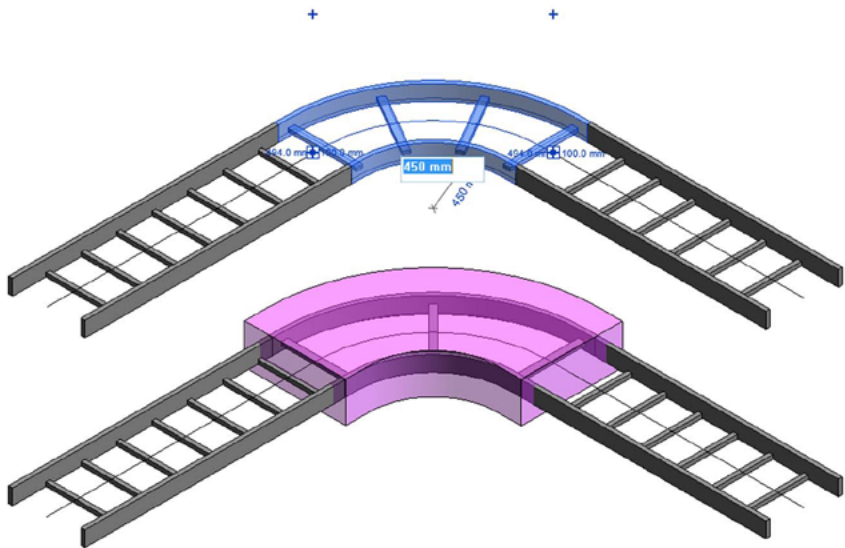
The 'Graphics' heading contains a number of tick boxes which highlight the area of the error. In the example provided the 'Error' box is ticked and the 'Not Radius Error' unticked. This highlights that the issue with this component is that the bend radius of the unit is incorrect and not in line with the supplied fittings from Legrand.

Please note that Legrand do produce bespoke sized fittings for every project scenario and further guidance should be sought from Legrand directly regarding bespoke elements. The displayed error message in all of the Legrand BIM content is for those that do not apply to the standard off the shelf range of fittings.

The 'Text' heading contains set information relating to the available sizes and configurations available for that particular fitting.

So for the displayed example you can see that the fitting is reading an error because of an incorrect bend radius, set at 494mm. Changing the 'Bend Radius' parameter to 450mm will correct the size of the fitting and remove the error.

Please note that when initially placing a flat / horizontal bend Revit will automatically pick the bend radius that matches the width of the selected ladder or tray. This will mean that initially your horizontal flat bends will read as an error. These should be changed to an available bend radius i.e. 300,450,600,750,900mm. You can use the 'Select all instances' tool to change these all in one go.



These in built guidance notes and prompts should allow you to highlight areas of misspecification and resolve accordingly.

Please note as with all Revit systems sometimes unexpected results can be created depending on how the elements have been drawn and from which direction. It is recommended that if this kind of 'Revitism' does occur that the user try drawing the element separately and then joining the two systems together.

Scheduling the Legrand Swifts® Cable Ladder System

The Legrand BIM content also includes pre-configured schedules to allow your Swifts® Cable Ladder system to automatically populate quantities and Cat Nos. of each of the elements within your system.

A standard drawing sheet has been set up in the downloaded Revit project file (.rvt). Navigate to the 'Project Browser' - Sheets and select the 'Swifts® Cable Ladder Schedule' You will be displayed with the below drawing sheet.

Swifts® Cable Ladder - Medium Duty (Topaz) - Project Schedule										Guidance Notes: Product Title Topaz Cable Ladder with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. Important Notes: 1. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 2. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 3. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 4. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 5. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 6. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 7. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 8. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 9. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm. 10. The cable ladder is designed to be used with a cable ladder insert for the topaz medium duty cable ladder - 1000 x 100 x 100 mm.																																																																																																																																																																																																																																					
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As your Cable Ladder system is created this sheet of schedules automatically updates to provide all the relevant information relating to your project specific Swifts® Cable Ladder system.

The drawing sheet and all of the applicable schedules can easily be copied from the download Legrand source file to your project BIM. To do this please follow the below method:

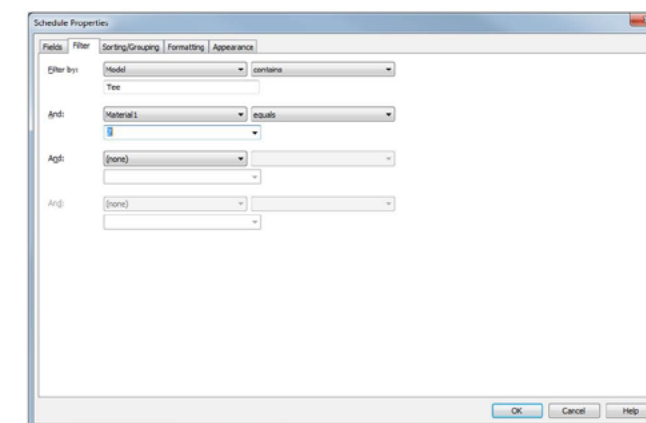
1. Open up the Legrand Swifts® Cable Ladder Project and also your project BIM file.
2. In the Swifts® Cable Ladder Project navigate to the 'Project Browser' and right click on the drawing sheet - Swifts® Cable Ladder Schedule. Select the 'Copy to Clipboard' option.
3. Now return to your project BIM (any view is acceptable) and on the main Revit Ribbon under the 'Modify Tab' select 'Paste from Clipboard'. Your project browser will automatically update and add the drawing sheet as well as all the applicable schedules to your project BIM.

Using Multiple Legrand Systems and Scheduling in your project

When using multiple Legrand BIM systems in one project file and copying across the scheduling sheets as previously mentioned it is important to ensure that the schedules are filters so that they pick up only the duty of component for each sheet or schedule.

To do this please follow the method below;

1. Once copying across the drawing sheets & schedules into your project BIM for the various Legrand systems, navigate to the 'Schedules/Quantities' drop down in the Project Browser.
2. The schedules have all been purposely named with the duty type clearly indicated in the name of the schedule. Open one of the schedules for example - Swifts Cable Ladder - Topaz - Project Tees
3. With the schedule displayed, navigate to the 'Properties' dialogue box and select 'Edit...' on the Filter button.
4. The filter options will now be displayed. The schedules are already filtered by part type for example tee, bend, cross etc. We now need to add an additional filter to be able to display only the duty as per the name of the schedule. In the second row complete the fields as per the below image.



5. where 'Z' is displayed you need to input the correct designated number depending on the duty. Z = Topaz, P= Sapphire, E = Emerald, click ok to activate and proceed through this process for the remainder of the schedules.

Other

You can add the Legrand Swifts® Cable Ladder System to your company template file, ensuring that it will then be available without re-loading when starting a new project.

Revision

Version 1.0 - First Issue

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