

How to bend Revit cable trays



Overview

Smart Cable Tray Bending in Revit | No More Sections with GreaterBIM
With GreaterBIM, you can bend cable trays up, down, left, and right at standard angles.

Key Takeaways

In Revit, cable trays can be bent using built-in fittings, sweep-based families, or specialized add-ins like GreaterBIM Smart Bend for precise 2D and 3D control. Using Built-in Cable Tray Fittings

Revit allows you to create bends by using cable tray with fittings. To do this:

- Select the Cable Tray tool and choose Cable Tray with Fittings.
 - Go to Edit Type and configure the bend radius and fitting types, such as vertical inside/outside bends or elbows, according to your project needs .
 - Place the cable tray in your model. Revit will automatically insert the appropriate fittings at corners or changes in direction .
 - For angled bends, ensure the correct fitting type is loaded (e.g., 45° or 90° elbows). Sometimes multiple segments are required to achieve a smooth bend, such as two segments for a 45° elbow or three for a 90° elbow .
- Creating Custom Bends with Sweeps

If the built-in fittings do not meet your requirements:

- Open the Family Editor and create a new cable tray family.

- Use a reference line and a sweep to define the path of the bend. The sweep's sketch should follow the reference line to maintain connectivity .
 - Avoid using simple extrusions for angled trays, as they may break when the angle changes. Sweeps provide flexibility and maintain proper constraints.
- Using Add-ins for Smart Bending

For faster and more precise bending:

- The GreaterBIM Smart Bend add-in allows you to bend cable trays up, down, left, or right at standard angles (30°, 45°, 60°, 90°) directly in 2D and 3D views .
- This tool eliminates the need to manually cut or adjust sections and ensures consistent results across your model.

Tips for Successful Cable Tray Bends

- Always use cable tray with fittings rather than without, to allow automatic placement of elbows and bends.
- Check the bend radius multiplier in the type properties to ensure smooth transitions.
- For complex angles, consider splitting the run into multiple segments and connecting them with elbows.
- When importing CAD files, set up parameters carefully to maintain bend accuracy and connectivity . By combining Revit's built-in fittings, sweep-based families, and optional add-ins, you can efficiently model accurate and visually consistent cable tray bends in your MEP projects.

Article Content

Smart Cable Tray Bending in Revit | No More Sections with GreaterBIM

With GreaterBIM, you can bend cable trays up, down, left, and right at standard angles (30°, 45°, 60°, 90°) — all

Change the Bend Radius for Cable Tray

For cable tray, the default bend radius is set to the width of the cable tray, measured between the inside edges. You can specify a

Setting Up Cable Tray in Revit MEP: A Step-by-Step Guide

Walk through placing cable tray in Revit MEP—loading fittings, setting routing preferences, drawing runs across

Cable Tray and Conduit

Add Cable Tray Fittings As you draw cable tray, Revit automatically adds fittings. Use the following procedure to manually add cable

Solved: Cable Tray Elbow

Solved: Good day, In need to create an elbow that starts at a right angle and that has the ability adopt the angle of the

Cable Tray Fitting creation (Elbow Bend)

Solved: I am having a problem creating a cable tray fitting, I did the best I could (see attached), however still doesn't

How to create vertical cable tray in Revit

How to create a vertical cable tray in Revit to match the one shown in the image: This can be done with the free Revit

Adding cable tray in Revit

Adding cable tray in Revit Review the basics of placing cable tray, add vertical cable tray, and place cable tray and fittings

Cable Tray

The Cable Tray Types window displays three preconfigured eVolve cable tray families. Each family offers several types to choose

Appropriately insert horizontal cable tray bends for vertical tray ...

I'm trying to replicate this in Revit. I have modeled the two parallel segments and a 45 degree offset, but when I try to

Cable Tray

Cable Tray eVolve Electrical has taken Revit's basic cable tray feature and enhanced it to load an advanced eVolve cable tray family

Draw Cable Tray

A bend is automatically added to the segment as needed. Note: When you draw cable tray with fittings, connection lines for the

Make a 90 Bend in Electrical Cable Tray

The Easy Guide to... How to make a 90 electrical cable tray bend to measurement of your choice. Great if you are

Help | How to create vertical cable tray in Revit | Autodesk

Learn how to create vertical cable trays in Autodesk Revit with this comprehensive guide for efficient modeling and

How can I create a cable tray that is curved in plan?

I want to create a cable tray by an arc. But I can create only straight lines. Is there any workaround otherthan splitting

Modify cable tray fittings in tight spaces

Modify cable tray fittings in tight spaces Any referenced datasets can be downloaded from "Module downloads" in the module

Greater BIM

Bend cable trays in Revit with speed and accuracy using the GreaterBIM Smart Bend add-in. With GreaterBIM, you

About Cable Tray Options Bar Settings

The default bend radius is set to the width of the cable tray, measured between the inside edges. You can specify a different

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

