

Revit cable tray rotation



AI Overview

Cable trays in Revit cannot be rotated freely like standard elements, but workarounds using face-based families, mirrored sections, or custom line-based families allow orientation adjustments.

Horizontal Rotation Revit's out-of-the-box cable tray system family does not allow rotation about its cross-sectional axis. By default, the bottom of the tray runs parallel to its supports, and horizontal rotation is limited to the plan view orientation. To place a tray with the bottom facing a wall or upside down, you can:

- Use a section or elevation view and apply the Rotate tool to rotate the tray vertically or mirror it along a reference line.
- For upside-down placement, create the tray normally and then mirror it in a section view, though repeated trimming or copying may reset the orientation.

Using Face-Based Families A more flexible approach is to create a face-based family classified under an electrical category: This allows the tray to host onto any surface, including walls or vertical planes. You can rotate the tray along the wall or trench by pressing the space bar to flip orientation. Face-based families maintain visibility in electrical discipline views and can accommodate voids or custom profiles for scheduling.

Custom Line-Based Families If precise 3D orientation is required: Create a Generic Model Line-Based family using a cable tray profile. Carefully select the family category to ensure schedules and filters populate correctly. This method allows full control over 3D orientation but requires manual setup for connectors and may not behave like a system family.

Practical Tips Place cable tray fittings first at the desired elevation and orientation, then draw the tray run using connectors. Consider whether 3D orientation is necessary for your project, as plan views often convey sufficient information for MEP coordination. Avoid over-modeling; use workarounds only when the orientation is critical for construction or maintenance access. By combining these methods—mirroring in sections, face-based families, or custom line-based families...

Article Content

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

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 MEP Fabrication extension. Use Revit's built-in cable tray: Draw cable

How ElectroBIM automates cable and conduit sizing in Revit | David ...

In Revit, cable and conduit sizing is a fully manual process every circuit, every run, every time. That's a lot of clicking for something that should be automatic. With ElectroBIM, all of ...

Cable tray rotation

Hello guys, I just need to rotate my cable tray but the geometry.Rotate doesn't accept cable trays. Can you help me ? Sincererly yours, Quentin

Modeling and Coordinating Cable Tray Systems in Revit for Electrical ...

Understand how to model a cable tray using the systems tab in the electrical section for effective coordination, especially in the electrical room. Learn how to set the middle elevation, draw

Help Needed with Vertical Cable Tray Orientation in Revit

I'm trying to draw a vertical cable tray in Revit. After adjusting the section, rotating the trunking, and placing it vertically, any attempt to modify it (like extending the trunking or adding

Rotate or Place Inverted Cable Tray

Unfortunately for this situation, when you copy another one or use trim command the cable tray keeps going right-side up. You can keep persistently re-mirroring with carefully placed

Rotating horizontal cable tray to be ran vertically. : r/Revit

Rotating horizontal cable tray to be ran vertically. Anyone have a solution to rotating horizontal tray so it can be ran vertically? We've been asking for 13 years now, still no way to do it (that I'm aware of).

Revit Tip - Creating "Rotated" Cable Tray using a Face-Based family

A face-based family will host onto any surface and will enable the cable tray to follow a wall length or follow its height direction with the simple pressing of the space bar key.

How to create slope Cable tray?

So the cable tray has a constant axial (longitudinal) rotation, but not a constant planar rotation. In other words, it is twisted. To do this, you might need

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 MEP Fabrication extension. Use

Rotate or Place Inverted Cable Tray

As you can see from the image illustrated below  I have a set of cable trays run in my model which I need to change their rotation by 180 degrees. Also, is it possible to place a new cable

Cable Tray Bug

I'd like to report a bug with Cable Tray in Revit 2018.3.1, as it may apply to current and future releases. Horizontal cable trays are not supposed to be able to be rotated in section.

Solved: Cable Tray Orientation

Does anyone know how to place cable tray on a wall so that the open end of the tray is facing into the room? I have tried inserting a fitting first, rotating that so it is facing the right way and

Solved: Vertical cable tray

I want to place a cable tray that is fixed to a vertical wall (so the orientation will be vertical). In the Options Bar, the setting is Horizontal and

Cable Tray Revit Families - Download Free Cable Tray BIM Content ...

Download cable tray BIM objects with BIMsmith Market. Cable trays help keep complex technology systems safe and secure without detracting from the appearance of the surrounding environment.

Justification Settings for Cable Tray

Horizontal Justification. Aligns the edges of cable tray sections horizontally, using the center, left, or right side of the cable tray as a reference. Horizontal Offset. Specifies an offset between where you click

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 floors, and resolving clashes

Transformation of cable tray in Revit using Python

Rotation of cable tray from horizontal to vertical and vice versa as shown in image. I want to automate cable tray in Revit using Python. I want to

Get the rotation of a cable tray

Please upload a sample Revit file (preferably in an older version) with a rotated cable tray and other elements relevant to your issue.

Rotate horizontal cable tray sections

Allows to rotate the cable trays in a horizontal section, so we can place horizontal cable trays with the bottom facing a wall. Placing channel cable trays upside down is also desirable, I have seen some

Draw Wall Mounted Cable Tray In Revit

Draw cable tray in plan. Look at cable tray in section or elevation that looks at its side. Use the rotate command to rotate the element vertically.

Revit Recess: Vertical Cable Tray Orientation

Rotating the cable tray elbow will allow you to then specify the orientation. Using the cable tray connectors at both the starting and ending points of the elbow, you will be able to draw a cable

Rotate cable tray

Hey Is there an option to rotate an cable tray by degrees, i want this cable tray upside down. or turned by 180°. Thanks in advance.

Modeling cable tray vertically

Modeling cable tray vertically Model a cable tray vertically on a wall - Exercise Open the Small Medical Center-Cable Tray Vertical.rvt project. You are in the in the 01

Practice 002: Modeling Cable Tray Horizontally on a Wall in Revit

Practice 002: Modeling Cable Tray Horizontally on a Wall in Revit Open the Small Medical Center-Cable Tray Horizontal.rvt project. You are in the Electrical Room South Wall section view, facing the

Modeling cable tray horizontally

Model a cable tray horizontally on a wall in Revit - Exercise Open the Small Medical Center-Cable Tray Horizontal.rvt project. You are in the Electrical Room South Wall section view, facing the panels. You

Contact Us

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