Revit cable tray rotation placement



Overview

Start the Cable Tray Fitting command again and place the fitting in the view where it isn''t touching anything.

Key Takeaways

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 RotationRevit'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.

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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—you can achieve rotated or inverted cable trays in Revit despite system family limitations.

Article Content

Modeling cable tray horizontally

Start the Cable Tray Fitting command again and place the fitting in the view where it isn''t touching anything. Use the rotate controls on the fitting to rotate it around until you see the ladder side, as

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

Revit Tip – Creating ''Rotated'' Cable Tray using a Face

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

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 with ducts and conduit.

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

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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 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

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.

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.

Revit: MEP rotate

Select the element to rotate – select the element (fitting or system section) to be rotated. Select the nearest element to the connector around which you want to rotate – MEP element selection: the

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

Learn how to set the middle elevation, draw through the room, avoid conflicting elements, and create a detailed and clear visualization of the cable tray''s route.

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

Get the rotation of a cable tray

I have written a script that places hangers on a cable tray. It works fine as long as the cable tray is horizontal. I want the hanger family to line up with the cable tray. How do I get the

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

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

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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

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

Fig 1. It is not possible to rotate cable tray about its cross-section axis, but with beams you can. Whilst this can be achieved with structural beam elements, this cannot be achieved with the out

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

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

Cable Tray divider – Dynamo scripts

This is a script that can help you to place Cable Trays dividers. There is no default option in the Revit for this so I did create a divider family and the script will place those elements on each Cable Tray. The

Related Video Reference

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

Contact Us

Continue your research online:

Website: https://explosivefunctions.co.za
Technical inquiry: https://explosivefunctions.co.za/contact.html
EU project coordination: Parque das Nações, Lisbon, Portugal

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

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