How to connect BIM cable trays at right angles

Overview

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

Key Takeaways

To connect cable trays at right angles in Revit, use cable tray fittings with 90° bends and configure angle settings in the Electrical Settings dialog or via smart bend tools. Step 1: Load Cable Tray FittingsBefore creating right-angle connections, ensure that your project has the necessary cable tray fittings loaded. In Revit, go to the Cable Tray Fitting section and load channel fittings such as vertical inside bend, vertical outside bend, and 90° horizontal bends.

This ensures that the software can automatically insert the correct fitting when you create a 90-degree turn. Step 2: Configure Angle SettingsOpen the Electrical Settings dialog and navigate to the Angles pane. Here, you can: Use Specific Angles: Select 90° to ensure all bends snap to right angles.

Set an Angle Increment: This allows you to define increments (e.g., 30°, 45°, 60°, 90°) for precise placement. These settings help maintain consistency and prevent misaligned bends when drawing cable trays. Step 3: Draw the Cable TraySelect Cable Tray with Fittings from the type selector.

Click to start the tray at your desired location. Drag the tray along the first segment, then click to create a 90-degree turn. Revit will automatically insert the appropriate fitting if loaded.

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Continue drawing the next segment along the new direction. Step 4: Use Smart Bend Tools (Optional)For faster and more precise modeling, consider using add-ins like GreaterBIM Smart Bend, which allow you to bend cable trays up, down, left, or right at standard angles including 90° directly in 2D or 3D views. This eliminates manual adjustments and ensures consistent results.

Step 5: Verify and AdjustAfter placing the trays: Check the bend radius and ensure it meets project standards. Adjust offsets or clearances if the tray intersects other systems. Use the routing preferences to automatically select the correct fittings for future bends.

Step 6: Scheduling and ParametersIf you need to schedule or tag the angle of each fitting: Create a shared parameter for the angle. Assign it to the cable tray fittings and update via Dynamo if necessary. This allows the 90° bends to appear in schedules and documentation.

By following these steps, you can efficiently connect cable trays at right angles in BIM, ensuring accurate modeling, proper fitting selection, and consistent documentation.

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 directly in 2D and 3D views. No more cutting sections or struggling with...

Electrical Settings: Angles

Use the Angles pane of the Electrical Settings dialog to specify the fitting angle to use when adding or modifying cable tray or conduit.

Solved: Cable tray fitting (tee)

Is it possible to connect 2 cabletrays with a "branch piece (left picture)" instead of a "tee (right picture)". The tee has 3 connectors, the branch

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.

Lec 5 Mastering Revit

This is the 5th lesson in the "Revit for Electrical Engineers from ZERO to HERO" Course. We''ll learn how to create cable structure systems, cable trays and trunks.

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Creation of cable trays using the CableTray Line node ...

My aim is to draw a line with the revit line command and use the dynamos script to draw the straight stretches and the curves according to the angles of the vertices.

Open BIM Cable Routing

Users select the manufacturer and type of tray, whether or not it has a top cover and end cover. They can also add compartments, define bevels and/or trims and add wiring.

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.

Joining cable trays

There are definitely more efficient ways to do this, but you can get the connectors of all cable trays and cable tray fittings, determine which connectors are coincident, and connect them (if

Open BIM Cable Routing

The tool allows users to spatially lay out manufacturers'' solutions for cable routing, both for electrical cables and telecommunication cables, in a three-dimensional work environment.

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 horizontally on a wall. We are also modifying cable tray fittings to work in tight

How to Add Cable Trays in Revit MEP: A Comprehensive Guide Using ...

Welcome to our step-by-step tutorial on adding cable trays in Revit MEP! In this video, we''ll walk you through the entire process of integrating cable trays into your Revit MEP project using a ...

Electrical BIM In Revit: Conduit Fill, Cable Trays,

Electrical BIM only works when the model reflects installation reality, right down to conduit fill, cable-tray loading, and panel schedules that line up with as-built drawings.

Cable trays NOT automatically connecting

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The cable trays aren''t connecting no matter what angle I try to connect them and I am presented with the following error message in the image attached despite loading all the cable tray

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 tray fittings to an existing segment or run.

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Running Horizontal Cable Trays flat against wall

- Create a cable tray type that do not automatic add fittings and use them to draw the ones flat against the wall (I have no idea how you did it). - Make copy of the fittings and set them to

Learn REVIT Fast LRF-ELEC-01-03 – Cable Tray – Revit news

Join this channel to get access to perks: Lesson Summary: LRF-ELEC-01-03 – Cable Tray in Revit Lesson Focus: This lesson walks through how to start a project and properly set up for Electrical

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