

How to make a horizontal cable tray from a vertical one

Article Overview

To convert a vertical cable tray into a horizontal one in Revit, you can copy and rotate the vertical tray, adjust its position, and use appropriate fittings or face-based families to maintain alignment.

Step-by-Step Process

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Copy and Rotate the Vertical Tray

o Select the vertical cable tray and copy it twice. Rotate the middle copy 90° to align it horizontally above the desired location, such as electrical panels .

o Use arrow keys to nudge the tray into precise position along walls or supports .

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Adjust Length and Orientation

o Select the horizontal tray and modify its length using temporary dimensions to match the required span .

o Note that some standard controls, like connectors, may not behave as expected on horizontal trays; undo and manually adjust if necessary .

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Add Cable Tray Fittings

o In the Systems tab, select Cable Tray Fitting and choose a Ladder Horizontal Bend or other fitting type .

o Hover over the ends of the vertical and horizontal trays to place the fitting. Sometimes the fitting may face the wrong direction; delete and reposition as needed .

o For programmatic connections, use Revit API methods like NewElbowFitting or NewTeeFitting with the tray connectors as input .

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Use Face-Based Families for Complex Rotations

o If the tray needs to follow a vertical wall or non-standard orientation, create a face-based family classified under Electrical Equipment .

o This allows the tray to follow a wall or height direction, effectively simulating a rotated horizontal tray while maintaining visibility in electrical views .

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Verify Connections

- o Ensure that the horizontal tray aligns with vertical segments and that connectors are properly linked. Revit may automatically add connectors at midpoints when drawing manually .
- o Check that no unintended tee fittings or errors occur, especially if using API methods for automation .

Tips and Considerations

- o Plan vs Elevation Views: Width is visible in plan, height in elevation; adjust accordingly .
- o Limitations: Standard Revit cable trays cannot rotate about their cross-section axis; face-based families are a workaround .
- o API Automation: Auto-generation of fittings is limited; explicit creation via API is required for programmatic workflows .

By following these steps, a vertical cable tray can be effectively converted into a horizontal configuration while maintaining proper alignment, fittings, and Revit visibility.

Ultimately, this shows the versatility of the ET type products: You can run the vertically up a wall, horizontally when supported by a

Our Wire Run Cable Tray products can be bent and shaped into a variety of configurations to route your cable runs as you desire,

Cable trays shall be complete with necessary hot dip galvanized sheet steel accessories such as coupler plates,

Learn how to install cable trays correctly. Get the ultimate step-by-step guide on setting up a seamless and reliable

To connect a horizontal cable tray segment with a vertical one requires the latter to be precisely oriented so that the elbow will line up

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Open the Small Medical Center-Cable Tray Horizontal.rvt project. You are in the Electrical Room South Wall section view, facing the

This article explores the pros and cons of both horizontal and vertical cable management systems and discusses

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Hi, In following picture, there is a horizontal cable tray, and I want to draw a vertical cable tray starting from the middle

G - Vertical bend without a radius (90) create a 90 vertical bend, remove one section of side wires on each side of the tray at the

Modeling cable tray horizontally Model a cable tray horizontally on a wall in Revit - Exercise Open the Small Medical Center-Cable

You made a very neat and attractive joint, but the sharp edges of the vertical and horizontal tray corners make me a little nervous

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

Cable trays are available in different configurations, straight sections are available to route cables in a horizontal or vertical plane.

How to make a 90 electrical cable tray bend to measurement with a gusset of your

I'm trying to draw a vertical cable tray in Revit. After adjusting the section, rotating the trunking, and placing it vertically,

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