

## Article Overview

The cable tray sleeve process involves preparing, installing, and securing sleeves to allow cable trays to safely pass through walls, floors, or slabs while maintaining structural integrity and fire safety.

## Purpose of Cable Tray Sleeves

Cable tray sleeves are protective components that provide a rigid and secure passage for cable trays through walls, floors, or slabs. They prevent damage to both the tray and surrounding structure, maintain alignment, and ensure compliance with fire safety standards by allowing proper firestopping where required. Sleeves can be standard or fire-rated depending on the installation requirements.

## Materials and Components

- o Sleeve body: Typically made of durable materials like steel or aluminum for structural support.
- o Filling trestles: Used in slab penetration sleeves to adjust the internal size of the sleeve to match the cable tray dimensions.
- o Support frames: Provide stability and alignment during installation.
- o Firestop materials: Sealants, putty, or intumescent materials are applied to maintain fire barrier integrity.

## Installation Steps

- o Planning and Measurement: Determine the exact location of the penetration and measure the wall, floor, or slab thickness. Select a sleeve size that matches the cable tray dimensions.
- o Prepare the Opening: Cut or drill the wall or slab to create an opening for the sleeve. Ensure the opening is slightly larger than the sleeve to allow for proper alignment and firestopping.
- o Insert Sleeve: Position the sleeve in the opening, ensuring it is aligned with the cable tray path. Use a level to verify horizontal or vertical alignment.
- o Secure Sleeve: Fix the sleeve using anchors, brackets, or support frames. For slab sleeves, insert filling trestles into the sleeve grooves and fill with mortar to adjust the internal size and provide stability.
- o Firestopping: Apply fire-resistant sealant or intumescent materials around the sleeve to maintain the fire rating of the barrier.
- o Cable Tray Installation: Once the sleeve is secured and firestopped, route the cable tray through the sleeve, ensuring proper support and spacing as per installation drawings.

## Best Practices

- o Use pre-fabricated sleeves for new construction to reduce on-site adjustments.
- o Ensure alignment and secure fastening to prevent movement during seismic events or thermal expansion.
- o Maintain fire barrier integrity by using tested firestop systems and following manufacturer guidelines.

# Cable tray sleeve fabrication

o Document sleeve locations and sizes for future maintenance or cable additions . By following these steps, cable tray sleeves provide a safe, code-compliant, and structurally sound method for routing cable trays through building barriers.

## 1. Overview This report describes the manufacturing and mechanical bending process of

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PURPOSE: A cable tray integrated slab penetrating sleeve is provided to easily control the size of a tray by simply using a filling

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In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

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