

Cable tray passing through return air partition wall



Overview

Cable Transits prevents the spread of fire and smoke from one compartment to another where electrical, data and comms cables penetrate through separating walls and floors. The EZ Path® Cable Tray Retrofit Device provides a fast, code-compliant way to restore firestopping performance in cable trays with up to 100% visual fill. Where cables pass through shafts, walls, slabs, or enter electrical panels or cabinets, openings shall be tightly sealed with firestopping materials in accordance with. Non-curing and re-usable firestop block designed for the easy re-penetration of retrofitted cables. Self-adhesive discs of firestop putty designed to firestop single cables and small cable bundles. UL Listed Systems Concrete Wall - C-AJ-4056 3 HR F-Rating, 3/4 HR T-Rating Gypsum. Cable trays should not pass through a fire rated wall because the metal tray can conduct heat through the wall and may ignite materials on the other side.



Article Content

Dec 23, 2025

Through Partitions and Walls | UpCodes

Cable trays can be installed across partitions and walls, as well as vertically through platforms and floors, in both wet and dry environments. However, these installations must comply with the

Apr 23, 2026

how does one get Romex from one side of a cold air return to ...

how does one get Romex from one side of a cold air return to the other by code? I'm in a basement. inspector doesn't want wires running on the joist surface so I can't do that I have to drill holes, but I

Mar 01, 2026

EZ-Path Cable Tray Retrofit Device

Its innovative two-part design installs easily around non-compliant cable tray penetrations, rapidly restoring fire resistance. Ideal for retrofit environments, the EZ Path Cable Tray Retrofit Device

Jan 22, 2026

Cable Transits

Cable Transits prevents the spread of fire and smoke from one compartment to another where electrical, data and comms cables penetrate through separating

Jun 06, 2026

Learn How To Install Return Air Duct In Wall

A complete guide on how to install return air duct in wall for improved HVAC efficiency. Enhance airflow and temperature regulation in your home.

Sep 19, 2025

Fire rated wall | If

Cable trays should not pass through a fire rated wall because the metal tray can conduct heat through the wall and may ignite materials on the other side. However, if the cable tray does pass through a

Nov 09, 2025

Fire stop section of the cable tray and cable management NEMA

3M Fire Barrier Moldable Putty+ is a one-part, halogen-free product designed to firestop electrical outlet boxes and a wide variety of through-penetrations including cable, conduit, insulated pipe and metal

Aug 14, 2025

Designing for Supply and Return Air System Interaction in ...

Designing for Supply and Return Air System Interaction in Residential Buildings This fact sheet summarizes supply and return ductwork strategies and their impact on airflow. Maintaining airflow

May 22, 2026

Return to Sender - HVAC Return Pathway Options

These products purportedly provide better noise reduction with good air flow and are relatively easy to install. The fit between standard stud spacing in

Nov 15, 2025

Cable Tray Systems in Ducts, Plenums and Other Air Handling Space

Cable Tray Systems in Ducts, Plenums and Other Air Handling Space The objective of this article to provide clear information as to the use of cable tray in those areas covered by Section 300-22 of the

Jan 13, 2026

How can you pass cables through a fire-rated wall and keep "free air ...

How can you pass cables through a fire-rated wall and keep "free air" ampacities? I have a set of cables in free air that I need to pass through an 8-inch cinder block fire-rated wall and then in

Jul 13, 2025

Electrical Penetrations

Safer and and cost-efficient facilities with firestop solutions for cable penetrations. Pre-engineered, fiber-free for effortless retrofitting and maintenance.

Oct 19, 2025

Cable Tray Penetrations: Problem Solved!

Almost always in evidence were fire stopping problems and issues around cable tray penetrations. Cable trays seemed to run through fire rated barriers with reckless abandon; the holes created by

Oct 19, 2025

HVAC Ducts Shall Not Be Run within Exterior Walls

Scope HVAC ducts, cavities used as ducts, and combustion inlets and outlets may pass perpendicularly through exterior walls but shall not be run within exterior walls unless at least R-6

Sep 02, 2025

Cold air return and electrical romex

The exception to 300.22 (C) permits cable to pass through joist or stud spaces of a dwelling unit. The joist space is covered with sheet metal and used as a cold-air return for a forced

May 11, 2026

Wiring through air return

I have a 120 year old house and it has air returns created by nailing sheet metal between floor joists. I am trying to run a new circuit to my upstairs bedroom and the only interior wall in the

Mar 27, 2026

Return Air Duct in Wall with Electrical Cable : r/hvacadvice

However, there's likely Romex running across the inside of the wall, as there are electrical outlets on that wall in both directions. Is there any issue with putting a return vent there, causing air to be passing

Jun 26, 2025

electrical wire in cold air return

Hey Guys Whats the deal with electrical wires in cold air return? Specifically in Brampton, Ontario if it matters. I understand its ok to run through, intersect a cold air return perpendicularly, but

Jul 04, 2025

Air returns/ NM cable | Information by Electrical Professionals for ...

It is used as an air return all the time in wood framed residential construction. Warm air is metal ducting usually oval shape. Return air is simply the wall cavity created by vertical 2x4's, and the

Dec 03, 2025

Fire rated wall | If

However, if the cable tray does pass through a fire separation, then the tray must be protected with an intumescent coating for a sufficient distance on both sides of the wall.

Jul 26, 2025

Cable through return air spaces

New Section 300.22 (C) (2) was added to cover wiring supported by cable trays in other spaces used for environmental air. Section 300.22 (C) (2) (a) permits metal cable tray systems to

Jul 29, 2025

Running network wiring in a cold air return vent?

In order to minimize the damage I will cause to existing walls and drywall when running cable, I have found a "cold air return" area on the top floor,

Oct 28, 2025

Designing for Supply and Return Air System Interaction in Residential ...

In these latter systems, hallways and stairwells act as large open ducts for conveying air back to a single (or sometimes multiple) central return. When partition doors to an isolated room are closed, the

May 20, 2026

How to reroute a circuit that goes through a return air

Old house, need to replace a wire where the insulation has been stripped off from when the original installer pulled it through a joist. Normally I'd just follow the

Nov 03, 2025

Firestopping electrical systems

Common electrical system components likely to penetrate a wall include conduit, busduct, cable tray, and cable. Concrete and masonry walls require early

Aug 12, 2025

Firestopping Requirements for Cable Trays and

Where cables pass through shafts, walls, slabs, or enter electrical panels or cabinets, openings shall be tightly sealed with firestopping materials in

Contact Us

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