

Can cable trays pass through stairwells



Article Overview

Cable trays can pass through stairwells if proper clearance, accessibility, and firestopping measures are maintained according to NEC and industry best practices.

Code Compliance and Safety

Cable trays are permitted to extend vertically through floors, platforms, or partitions, which includes stairwell areas, provided the installation meets firestopping requirements outlined in NEC Section 300.21 and Sec. 392.18(D) for metal cable trays . This ensures that the tray does not compromise the fire-resistance rating of the stairwell or building structure. The tray must remain exposed and accessible for maintenance, as required by Sec. 392.18(E), and sufficient space must be maintained around the tray for safe access .

Mechanical and Structural Considerations

When routing cable trays through stairwells, ensure that the tray is mechanically supported and aligned properly. Avoid placing foreign objects or structural elements through the tray unless they are fire-resistant and do not interfere with cable support . Perforated or wire mesh trays are recommended to improve airflow and prevent heat accumulation, which is especially important in vertical runs through confined spaces like stairwells .

Fireproofing and Penetration Sealing

Any openings created for cable trays in stairwell floors or walls must be sealed with...

Article Content

Sep 04, 2025

Regulations around stairwell wiring

Hi all, I have two questions regarding wiring and containment on commercial property stairwells in Ireland. We are

Aug 01, 2025

Conduit in stairwells | Information by Electrical Professionals for ...

Hello, It would be extremely convenient for me to horizontally pass through a stairwell in a commercial property to feed

Oct 23, 2025

Cable Tray Installation Rules (NEC 392) - Electrical Trader

Cable trays can also be used to transition conductors into equipment through bushed conduit, tubing, or flanged

Sep 26, 2025

Cable tray

Combustible cable jackets may catch on fire and cable fires can thus spread along a cable tray within a structure. This is easily

Apr 29, 2026

Conductors/Cables passing though a cable tray (without entering the ...

Cable trays in industrial establishments can have other cables and raceways attached to the bottom but it only talking

Jan 14, 2026

Electrical Room in Stairwell | Information by Electrical Professionals ...

I just received a set of drawings for a church that shows the Electrical Room underneath the midpoint landing of one of

Apr 17, 2026

Best Practice Guide to Cable Ladder and Cable Tray Systems

Cable ladder systems and cable tray systems are designed for use as supports for cables and not as enclosures giving full

Jun 20, 2026

Type of Tray Cable and Benefit of Cable Trays

Not only can EWCS set you up for success with the wide array of the stock they have, not limited to tray cable but

Dec 21, 2025

Best Practice Guide to Cable Ladder and Cable Tray Systems

Cable ladders and cable trays should be mounted far enough off the floor or roof to allow the cables to exit through the bottom of the

May 19, 2026

Firestopping Requirements for Cable Trays and Wall/Slab Penetrations

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

May 16, 2026

Technical Guidelines for Cable Tray Installation and

When cable trays pass through walls or floors, seal openings using fire-rated penetration sealing materials.

Jan 04, 2026

Cable Tray Technical Guide A practical guide to product selection and ...

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

Feb 04, 2026

Cable Tray Cable Ladders: A Comprehensive Guide to Installation and ...

Cable trays and cable ladders are indispensable components in modern electrical wiring systems, providing organized

Dec 23, 2025

Cable Tray Installation Method Statement

Only approved brand cable tray, ladder tray and trunking shall be allowed to be used. Ensure that sleeves and box outs are as per

Sep 03, 2025

Exposed conduits in stairwells | Information by Electrical ...

Re: Exposed conduits in stairwells That's what I thought, I believe he was using the fact that you can't run mechanical

Oct 27, 2025

Panelboard on Stairs, Wireway Clearance and More

Can you help? The term “metal wireway” is defined in Article 100 as sheet metal troughs with hinged or removable

Apr 03, 2026

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

Nov 12, 2025

Restrictions on Circuits in stairways and elevator rooms

If I can run through either space I don't know if the job can be done. Back in 2007 when we did a 44 room addition onto

Mar 28, 2026

Essential Principles for Cable Tray Access Path Setup

Cable tray access path setup plays a pivotal role in ensuring the smooth operation and maintenance of electrical

Oct 12, 2025

Run items (ducts, conduits, pipes, etc.) in rated stair wall

I know that per 1023.5 of the code, there are no penetrations allowed in an interior exit stairway except for the items

Feb 07, 2026

B-Line series Cable Tray Design Considerations

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market

Oct 22, 2025

Safely Installing, Maintaining and Inspecting Cable Trays

Overloading cable trays can lead to a breakdown of the tray, its connecting points and/or supports, causing hazards to persons

Dec 12, 2025

FAQ | Cable Tray Institute

Question: Is it necessary to provide tie-down cables installed in a cable tray? Answer: Yes; cables are tied down in cable trays to

May 16, 2026

Life Safety Code - What Penetrations Are Permitted In An Exit

Life Safety Code can be tricky to understand. Make sure your facility is up to code with regulations, specifically those

Sep 01, 2025

Cable Tray Today: An overview | Cable Tray Institute

The rungs pass through the center spine at the bottom, or through the top. Both top or bottom mount systems allow the installer to

Nov 25, 2025

Best practice guide to cable ladder and cable tray systems

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure

Jan 20, 2026

A Guide to Installing and Supporting Electrical Cable Trays

Yes, an electrical cable tray can serve as an EGC if it meets all bonding and grounding requirements

Aug 23, 2025

Cable Tray Installation | UpCodes

Cable tray systems must be installed as a complete unit, ensuring electrical continuity and support for cables. Each tray run should

Nov 21, 2025

Fireproof installations above fire protection ceilings

In particular, heat and smoke developments in corridors and stairwells that lead into the open air in emergencies are a major risk.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

