

Lateral cable tray combined seismic bracing



AI Overview

Lateral cable tray seismic bracing is achieved using pre-approved systems such as Eaton's TOLCO/B-Line series and Loos & Co. Wire Rope/Cable™ bracing, designed to meet building codes and facilitate rapid installation.

Overview of Lateral Bracing Systems

TOLCO/B-Line Series Cable Bracing Eaton's B-Line series with TOLCO seismic bracing provides a complete solution for lateral and longitudinal bracing of cable trays. These systems use 7 x 19 strand core pre-stretched galvanized aircraft cable and are designed to attach to hanger rods or structural attachments. The unique "Fast-Attach" yoke and breakaway hex nuts ensure proper torque and installation. The system allows stackable installation of lateral, longitudinal, and opposing braces on a single hanger rod without disassembly, making it suitable for both new construction and retrofit projects. Pre-approved assembly drawings and engineering services, including PE stamps, are available for compliance with IBC, CBC, and OSHPD standards.

Wire Rope/Cable™ Bracing (Loos & Co.) Loos & Co. offers Wire Rope/Cable™ seismic bracing, which is pre-stretched to act elastically, effectively dampening seismic loads. These braces are UL listed, flexible, and lightweight, with no length limitations, and are designed to resist earthquake loads in tension. Standard braces come in color-coded sizes with minimum breaking strengths ranging from 900 to 6600 lbs. The system includes a wire rope, factory-attached stake eye, oval sleeve, and universal restraint clip (URC) for secure installation.

Design Considerations

Seismic Code Compliance: Bracing must meet local building codes (IBC, CBC) and nonstructural component requirements, such as those outlined in the Uniform Building Code (UBC) Zone 3 for high seismicity areas.

Attachment Points: Lateral braces are typically attached to hanger rods, structural attachments, or the...

Article Content

UNISTRUT Seismic Bracing Solutions

Requirement: Each straight run requires a minimum of (2) transverse braces and (1) longitudinal brace.

Installation Guide for Seismic Lateral Bracing in MEP

This guide focuses on cable lateral bracing, a common flexible bracing method, and outlines standard installation steps following manufacturer

Design and Installation Manual for Seismic Bracing of Cable Trays

Overview of a cable tray seismic bracing load path from tray rail to structure. This guide serves EPC engineers, MEP contractors, procurement teams, and site inspectors working on

Rev 7 to Procedure SAG.CP3, "Seismic Design Criteria for Cable Tray ...

The design requirements for seismic Category I structure are delineated in Regulatory Guide 1.29. This document provides the seismic design guideline for cable tray hangers of Comanche Peak Steam

Seismic Standards: Cable Management Guide – Electrical Trader

IEC 61537 checks the tray or ladder product itself, mainly by SWL and deflection testing. ASCE 7 + IBC set the U.S. seismic restraint rules for cable trays, conduits, bus duct, hangers, and

Mechanical, Electrical and Plumbing Seismic Bracing Systems

From design to construction to inspection, the nVent CADDY team makes seismic simple by walking you through the full process for applications including Mechanical, HVAC, Electrical, Plumbing and Fire

Seismic MEP Solutions | Eaton

First, lateral braces, also called transverse braces, are installed across or perpendicular to the system. Second, longitudinal braces are installed parallel to the system. Seismic bracing also uses rod

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Piping and cable trays do not act as reliable lateral bracing for the compression flange of support beams. Piping is typically not attached to the support beam, and friction alone cannot provide

V.C. Summer Nuclear Station, Units 2 and 3, Rev. 3 to Updated ...

Cable Trays and Cable Tray Supports This appendix provides the design criteria for seismic Category I cable trays and their supports. Seismic Category II cable trays and their supports are also designed

Seismic Bracing Installation Best Practices: Cable

In our three-part blog series, we'll be exploring the different seismic bracing attachments, featuring both cable bracing and rigid bracing. Additionally,

SOLUTIONS

Engineer certified designs and site inspections Ezystrut offers a range of seismic solutions that comply with Australian Standard AS1170.4. Our one-stop solution for seismic bracing, cable tray, pipe

Performance-based optimum seismic design of cable tray system

To investigate the seismic behavior and failure mechanism of the cable tray, a series of shaking table tests were conducted on a full-scale steel frame with a cable tray system enhanced by

Test-based approach to cable tray support system analysis and

Nuclear power plant safety-related cable tray support systems subjected to seismic loadings were originally understood and designed to behave as linear elastic systems. This

Seismic Bracing Solutions for Data Center

From design to construction to inspection, we keep our process transparent to ensure a full understanding of the final bracing installation, whether it requires cable or rigid bracing solutions.

Vogtle Electric Generating Plant (VEGP) Units 3 and 4 Updated ...

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Design and Installation Manual for Seismic Bracing of Cable Trays

Cable tray runs in seismic zones need more than normal hanger spacing. A standard trapeze support carries gravity load; it does not reliably stop lateral sway, longitudinal movement,

Seismic bracing cable kit system | MEP cable bracing

Up to 50% faster to install, the seismic bracing cable kit system is designed to suspend equipment and other systems to help minimize damage in a seismic event.

Seismic Bracing Kit | Seismic Bracing | Wire and Cable Hangers | Wire ...

Kit contains items needed for seismic bracing long cable tray runs. Each kit contains:
(4) 11" cables with mounting eyelets (2) Metal brackets for attachment to support members (4) Cable clamp collars (4)

Seismic and cable tray solution flyer

Our team of experts can help you select the best cable tray series for your application, as well as designing your seismic bracing layout to ensure it meets applicable building codes and standards.

Seismic and cable tray solution flyer

Eaton's B-Line series cable tray with TOLCO seismic bracing is the recommended total solution for your project. Our cable tray, bolted framing, and seismic bracing are approved as one system through

SEISMIC BRACING OF A DISTRIBUTED CABLE TRAY SYSTEM

These cable trays are assembled on site and the cable tray sections are spliced together using bolted connections. The cable trays have diagonal bracing between layers of cable trays in the longitudinal

UNISTRUT Seismic Bracing Solutions

UNISTRUT Seismic Bracing Solutions Unistrut is a global leader in seismic bracing solutions and is a go-to resource for Engineers, Contractors, Specifiers, and others. We have decades of experience

Multi-Directional Bracing For Electrical Conduit, Cable Tray And ...

Multi-Directional Bracing For Electrical Conduit, Cable Tray And Mechanical Piping Systems INTRODUCTION What is Seismic Bracing? Seismic forces are exerted on a building and its contents

SBS-4-2011_web.pdf

INTRODUCTION UNISTRUT Seismic Bracing Systems are designed and constructed to resist virtually all code specified seismic forces in the event of an earthquake; therefore, keeping non-building

Seismic Bracing Systems | nVent CADDY

The innovative line of nVent CADDY Bracing Systems was developed to help keep fire sprinkler systems intact after a seismic event and minimize water damage.

Seismic Bracing Systems for Cable Trays Catalog

Explore seismic bracing solutions for cable trays. Catalog details wire rope/cable systems, specs, design for earthquake protection.

Seismic Bracing Ensures Stability and Safety of Cable

Seismic bracing, typically made of high-strength metal, is key component specifically designed to enhance the stability and safety of cable tray systems during

Cable Tray Checklist for High-Seismicity Projects

When those elements are coordinated early, cable tray systems can perform far more reliably under earthquake demands. Planning a project in a

Seismic Bracing Installation Best Practices: Strut

A rigid seismic bracing system is the recommended prefabricated or retrofitted solution, with lateral bracing eliminating the need for multiple trips up

Mechanical, Electrical and Plumbing Seismic Bracing Systems

"nVent"s seismic experts provide everything we need for a code compliant cable bracing system. Their patented, turn-key seismic solutions give us peace of mind that our building products are properly

Contact Us

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