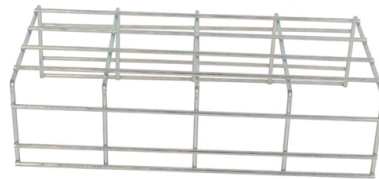


Spacing of seismic-resistant cable tray hangers



Overview

For rigid cable trays, it is established that the seismic supports should be spaced no more than 12 meters apart. Dead load includes the weight of the cable trays, their supports and the cables. A number of shake table tests on portions of cable tray and conduit systems confirm these observations from past earthquakes and demonstrate that typical configurations perform well under repeated high-level seismic input test spectra on the order of 1. There are only a. In regions prone to seismic activity, ensuring that your cable tray system is capable of withstanding such events is vital. For over 60 years, the mechanical, electrical, and fire protection trades have relied on TOLCO seismic bracing solutions. Clause 522-08-04 Where conductors or cables are not supported. 1170.



Article Content

Seismic Support and Hanger Solutions

By integrating load mechanics and seismic action calculations, these systems anchor pipelines, ducts, cable trays, and equipment to pre-reinforced

Appendix 3F Cable Trays and Cable Tray Supports

Cable ties are provided at spacing greater than 4 feet, thereby permitting cable movement within the trays. The damping ratio used for the cable tray system is dependent on the level of seismic input

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

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics, installation, and

KINETICS™ Seismic & Wind Design Manual Section

Using real numbers based on a 40 ft restraint spacing and a 60 degree angle configuration, if the peak tensile load in the hanger rod is 500 lb for a cable restrained system, it becomes 2230 lb for an

Seismic performance sensitivity analysis to random variables for cable ...

The final results demonstrate the need to consider the effects of random variables in modeling assumption in seismic performance analyses of cable tray and can be further used in

EARTHQUAKE PROTECTION

Suspended systems such as piping, equipment and ductwork need seismic braces to keep them from swaying during an earthquake. Seismic braces can be flexible using aircraft quality cables, or rigid

Seismic MEP Solutions | Eaton

Cable bracing works in tension, so it requires two opposing brace assemblies at each brace location. Rigid bracing works in both tension and compression, so one brace assembly per brace location is

Cable Trays Seismic Design: Protecting Power in Quake

Learn how I approach Cable Trays Seismic Design to protect power and data in earthquake-prone areas. Understand key principles, methods, and

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

Installing Seismic Restraints for Electrical Equipment

Raceways/Conduits/Cable Trays: Covers the different ways to install raceways, conduits, and cable trays. Attachment Types: Gives instructions on installing equipment in different arrangements known

Performance-based optimum seismic design of cable tray system

The seismic performance levels of cable tray systems are presented according to current seismic design codes. A performance-based optimum seismic design procedure for cable tray

Cable Tray and Conduit System Seismic Evaluation Guidelines

A number of shake table tests on portions of cable tray and conduit systems confirm these observations from past earthquakes and demonstrate that typical configurations perform well under repeated high-

Understanding the Seismic Resistance of Cable Trays

This article will explore the importance of seismic resistance in cable trays, discuss when seismic braces are necessary, and help you understand how

Westinghouse AP1000 Design Control Document Rev. 19

Cable ties are provided at spacing greater than 4 feet, thereby permitting cable movement within the trays. The damping ratio used for the cable tray system is dependent on the level of seismic input

Seismic MEP Solutions | Eaton

Innovative, patented labor-saving TOLCO cable bracing and rigid bracing solutions Seismic engineering services to help customers from pre-bid to inspection walk-through Full portfolio of seismic bracing

Performance-Based Earthquake Engineering Methodology for Seismic ...

Journal Pre-proof Performance-Based Earthquake Engineering Methodology for Seismic Analysis of Nuclear Cable Tray System

SEISMIC BRACING OF A DISTRIBUTED CABLE TRAY SYSTEM

In the transverse direction of the cable trays the lateral forces from the middle level of cable trays were assumed to be transferred to the upper and lower cable tray levels using vertical steel rods that were

Cable Tray and Conduit System Seismic Evaluation Guidelines

When cable trays have vertical drops of more than about 20 feet and flapping of the cables during an earthquake might cause pinching or cutting of the cables or impact with proximate fragile equipment,

Seismic analysis and design of electrical cable trays and support ...

Most cable trays in nuclear power plants are classified as seismic category I components. Current safety requirements dictate that all such components be adequately designed in order to

Seismic Bracing Installation Best Practices: Cable

Brace length is unlimited No rod tension from seismic loads Lightweight Small storage footprint Used in congested areas A full cable seismic bracing

SEISMIC BRACING OF A DISTRIBUTED CABLE TRAY SYSTEM

Above these cabinets, are cable trays that provide power and communications cabling to the cabinets. Since the facilities were located in a area of high seismicity, the cable tray system was required to be

Understanding Seismic Support for Electrical Installations

The maximum design spacing for seismic supports significantly influences the overall performance during an earthquake. For rigid cable trays, it is established that the seismic supports should be

Cable Support Distances

This provides distances for cables based on their diameter and cable type. Prysmian was instrumental in providing this information and an extract is provided in this document.

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

The AP1000 cable tray system design requires no sprayed-on material for fire protection. Cable ties are provided at spacing greater than 4 feet, thereby permitting cable movement within the trays. The

GUIDE CABLE TRAYS TECHNICAL

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations without notice. All illustrations, descriptions and technical information

Guide to cable support systems

The systems allow large support spacings of wide span systems or the multilayer arrangement of cable trays and cable ladder systems. The systems comprise hanging supports, support brackets, head

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