

Indonesian Standard for Seismic Bracing of Cable Trays



AI Overview

Seismic bracing of cable trays in Indonesia is typically guided by ISAT-approved systems distributed locally, designed to meet both international and local code requirements. Overview In Indonesia, seismic bracing for cable trays is implemented to protect electrical and communication systems during earthquakes, particularly in high-risk regions. While there is no widely published Indonesian National Standard (SNI) specifically for cable tray seismic bracing, local contractors and engineers often rely on ISAT seismic bracing systems, which are distributed by companies like JakSemi and engineered to comply with both international standards and local building codes. These systems are used in commercial and industrial projects to ensure code compliance and structural safety. Design Considerations Seismic bracing for cable trays generally involves: Lateral (transverse) bracing: Installed perpendicular to the cable tray to resist side-to-side motion. Longitudinal bracing: Installed parallel to the cable tray to resist movement along the tray's length. Rod stiffeners or HSS bracing members: Used to maintain vertical spacing and transfer seismic forces between multiple levels of cable trays. Attachment to structural elements: Braces are anchored to floors, walls, or roof structures using steel base plates, post-installed anchors, or custom brackets to distribute forces effectively. Reference Standards In practice, Indonesian projects often reference international standards for seismic bracing, including: International Building Code (IBC) ASCE 7 (American Society of Civil Engineers) NFPA 13 (National Fire Protection Association) EPRI SQUG Raceway Evaluation Guidelines for cable tray seismic performance. These standards provide guidance on calculating seismic forces, spacing of braces, and acceptable performance criteria for non-structural components like cable trays. Local Implemen...

Article Content

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

Institute of Electrical and Electronic Engineers (IEEE), Standard 344-1987, IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations

How to Specify Cable Tray for Hyperscale Data Centres in Indonesia:

If you are writing a cable tray specification for a hyperscale data centre build in Indonesia, you can source NEMA VE 1-rated product from a local Indonesian manufacturer without accepting a

NEMA VE 1 vs SNI: cable tray standards for Indonesian projects. ·

This guide maps the two-layer standard framework for cable tray in Indonesia, clarifies what each standard tests (and what each leaves undefined), and shows how to reference Sucofindo

Seismic Bracing – Jakarta Semikon, PT

JakSemi is authorized distributor of ISAT Seismic Bracing in Indonesia. Together with our principal, we design, engineer and manufacture innovative products that have been used on some of the largest

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.

Best 5 Cable Tray Manufacturers in Indonesia

Discover the leading cable tray manufacturers in Indonesia, offering high-quality products for industries across construction, energy, and

How Cable Trays and Seismic Bracing Systems Mitigate Earthquake

In Antakya, a hospital using ISO-compliant cable trays retained functional emergency power and oxygen lines despite 0.8g ground acceleration, while nearby facilities without such

The shake on seismic bracing

Seismic bracing against the wrath of earthquakes is an increasing concern for today's data-communications and telecommunications cable installer, and efforts to minimize the damage they

SNI 1726-2019 Structural Design Requirements for Indonesia

This standard is a revision of the previous SNI 1726-2012, incorporating updated knowledge, research findings, and lessons learned from past earthquakes. It provides a more

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

Westinghouse AP1000 Design Control Document Rev. 19

Institute of Electrical and Electronic Engineers (IEEE), Standard 344-1987, IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations

Indonesian Structural Design Codes

The document outlines Indonesian codes for structural design, including guidelines for concrete (SNI-2847-2019), steel (SNI-1729-2020), minimum design loads (SNI-1727-2020), and seismic design

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Institute of Electrical and Electronic Engineers (IEEE), Standard 344-1987, IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations

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

Understanding the Seismic Resistance of Cable Trays

This article discusses the importance of seismic resistance for cable trays, detailing when seismic braces are necessary, the factors that affect seismic resistance, and how to ensure your

Cable Tray Seismic Performance Testing: What You

Learn why Cable Tray Seismic Performance Testing is essential for infrastructure safety, and what standards ensure your trays can withstand

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

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

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,

STANDAR NASIONAL INDONESIA KOMITE TEKNIS

STANDAR NASIONAL INDONESIA KOMITE TEKNIS PERSYARATAN UMUM INSTALASI LISTRIK (KT 91-03) STANDAR NASIONAL INDONESIA KOMITE TEKNIS PERSYARATAN UMUM

SNI 1726:2019 – Indonesia Seismic Code

This standard is a revision of the previous SNI 1726-2012, incorporating updated knowledge, research findings, and lessons learned from past earthquakes. It provides a more detailed and stringent

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