

## Supply of seismic-resistant supports for air ducts and cable trays



### Overview

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 (solid) using steel sections such as pipe, angles, or strut channels. Why is seismic bracing important?

International Building Code. The Easy88ex EF5CK Series Seismic Cable Restraint Kits are engineered to secure suspended non-structural components—such as ductwork, piping, conduit, cable trays, and HVAC equipment—against seismic, wind, and blast forces. Designed in compliance with ASCE 7 and the International Building Code. EAE Seismic Support Systems offer rigid solutions for installations that require earthquake protection. The seismic restraint of pipe and duct is a task that requires several disciplines and trades to interface well in order to produce a building that meets the intent of the code. This section will present the basic terms, definitions, and commonly.



## Article Content

Earthquake Country Alliance: Welcome to Earthquake

Bracing is required at ducts exceeding 6 square feet in cross-sectional areas, and for round ducts exceeding 28" in diameter. No bracing is required if the top of the

Seismic Bracing for Ductwork, HVAC, Electrical & Pipe

Protecting HVAC, electrical, and piping systems from earthquakes saves money and lives. Learn the basics of seismic protection for these systems.

Wind & Seismic Bracing for Piping

Our Roof Pipe Supports and Roof Duct Supports are built for job sites where wind bracing and seismic bracing are required. These systems support piping, HVAC

Guidelines for Seismic Verification of HVAC Duct and Damper Systems

The guidelines are applicable to any HVAC duct and damper system at any elevation in a plant where the nuclear plant free-field ground motion 5% damped seismic design spectrum does not exceed the

HVAC Seismic Bracing Kit

Griplock's HVAC Seismic Bracing Kit delivers a versatile, code-compliant solution for both new and existing HVAC installations. Each kit includes two Retrofit Brackets

E-Line Seismic

Since 1973, EAE Electric has been your reliable partner in busbar, cable trays, fit-out solutions, support systems and much more!

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

HVAC Seismic Cable Bracing

Griplock® Systems' HVAC Seismic Bracing Kit is ideal for both new construction and retrofit projects, providing a fast, reliable, and code-compliant solution for

Integrated supports and hangers\_ Seismic support\_ Finished supports

The seismic support covers a wide range, including the construction of water supply and drainage, fire protection, heating, ventilation, air conditioning, gas, heat, electricity and other aspects of seismic

INSTALLING SEISMIC RESTRAINTS FOR DUCT AND PIPE

**INSTALLING SEISMIC RESTRAINTS FOR DUCT AND PIPE** Notice: This guide was prepared by the Vibration Isolation and Seismic Control Manufacturers Association (VISCMA) under a cooperative

Seismic Supports & Hangers for Earthquake Resistance

Introduction to Seismic Supports and Hangers Seismic supports and hangers play a critical role in the construction and engineering industries, particularly in areas prone to seismic activity. These

Seismic MEP Solutions | Eaton

Eaton's TOLCO seismic bracing solutions help protect people and non-structural components during an earthquake. For over 60 years, the mechanical, electrical, and fire protection trades have relied on

Westinghouse AP1000 Design Control Document Rev. 19

These design criteria maintain structural integrity for seismic Category I and II ducts and functional capability for seismic Category I duct. The structural components of a typical HVAC duct system

What Sheet Metal Contractors Need to Know About

It's looking at all aspects of seismic restraint systems, including supports, anchors and things of that nature, making sure that you don't have

KINETICS™ Pipe & Duct Seismic Application Manu

Table S1-3 below will show the seismic restraint requirements for each length of pipe or duct, and then list which seismic restraint locations will fulfill those requirements.

Seismic Proof Systems

This document covers the rules of longitudinal, transversal and 4-dimensional bracing, seismic retrofitting and calculation methods using Sikla products,

Pipe and Duct Seismic Application Manual

Pipe and Duct Seismic Application Manual Part II: Installation of Seismic Restraints for Pipe and Duct

**INSTALLING SEISMIC RESTRAINTS FOR DUCT AND PIPE**

This guide shows installers how to attach ducts, pipes, and associated equipment to a building to minimize earthquake damage. Many attachment examples and arrangements are presented,

Seismic Design Manual | PDF | Duct (Flow) | Hvac

Seismic Forces Acting on Conduit and Cable Trays (D9.1) This section provides a brief overview of the forces encountered by

## Seismic Restraint

Unlike residential buildings, manufacturing plants have a maze of piping, wiring, ducts, valves, cable trays, and other equipment. After an earthquake, existing piping drawings may not be applicable and

Vogle, Units 3 and 4, Updated Final Safety Analysis Report ...

These design criteria maintain structural integrity for seismic Category I and II ducts and functional capability for seismic Category I duct. The structural components of a typical HVAC duct system

## Seismic Support and Hanger Solutions

Seismic Support and Hanger systems are no longer optional—they are non-negotiable safeguards for modern infrastructure. By combining rigorous

## Seismic Bracing

Gripple Seismic Bracing Systems are specifically designed and engineered to brace and secure suspended non-structural equipment

## Seismic Cable Restraint Kits

Overview The Easy ex EF5CK Series Seismic Cable Restraint Kits are engineered to secure suspended non-structural components—such as ductwork, piping, conduit, cable trays, and HVAC

## INSTALLING SEISMIC RESTRAINTS FOR DUCT AND PIPE

Many attachment examples and arrangements are presented, including anchors and the use of special devices called seismic restraint devices. Seismic restraint devices include vibration isolation

## Seismic Bracing for Ductwork, HVAC, Electrical & Pipe

When ductwork, electrical conduits, and piping are hung from the ceiling (whether by rods or trapeze supports), seismic bracing is used to resist

## Microsoft PowerPoint

General Requirements Details provide lateral bracing system. Typical vertical supports per local building code must be used. Thermal expansion not given but must be considered. Duct construction to

## E-Line Seismic

EAE Seismic Support Systems offer rigid solutions for installations that require earthquake protection. The seismic supports, which can be utilized in any type of

## KINETICS™ Pipe & Duct Seismic Application Manu

Transverse seismic restraints (T): These act to prevent the pipe or duct from swinging side-to-side. They are normally placed perpendicular to the pipe or duct. The word lateral is often used for transverse

#### KINETICS™ Seismic & Wind Design Manual Section

For cases where restraints are required, however, the forces involved can be significant. This is due to the difference between the spacing of the system supports and their restraints. Supports for these

#### Seismic Cable Restraints for Piping and Building Systems

Our seismic cable restraints are adaptable for a wide array of systems, including HVAC units, plumbing, and electrical components. Here's a closer look at some

#### Services Must be Seismically Restrained to Comply with

Pipes larger than 200 mm in diameter will be subject to specific seismic support design. Air Ducts Rigid ducting with a hanger length greater than

#### Seismic MEP Solutions | Eaton

Seismic engineering services to help customers from pre-bid to inspection walk-through Full portfolio of seismic bracing solutions and support systems Cable tray Strut systems Pipe hangers Vibration

#### Criteria for Distribution System Analysis and Support

Cable tray systems may use higher damping values based on testing, which includes the proposed installed configuration, loading, and support system. Historic tests have demonstrated that a

## Contact Us

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