



**Adam Tas Corridor Energy**

# **Combined Seismic-Resistant Cable Trays**





## Combined Seismic-Resistant Cable Trays

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### 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 design and qualification of cable trays in nuclear power plants

Cable trays are light equipment components. They consist of steel ladder type cable trays and a support system. In case of horizontal cable trays, the trays are supported by cantilevers



### Vogtle Electric Generating Plant (VEGP) Units 3 and 4 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

### 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



### **A Method for Seismic Qualification of Cable Tray Systems in Nuclear**

This paper presents an approach to seismically qualify cable tray systems in nuclear power plants. The approach allows the use of standard tray and support designs by giving realistic consideration to the

### **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.



### **Westinghouse AP1000 Design Control Document Rev. 19**

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 utilizing the design criteria of this appendix.



## SOLUTIONS

Ezystrut offers a range of seismic solutions that comply with Australian Standard 1170.4. Our one-stop solution for seismic bracing, cable tray, pipe hangers, strut systems and fasteners takes the



### Appendix 3F Cable Trays and Cable Tray Supports

Live load consists of a load of 250 pounds to be applied only during construction on the tray at a critical location to maximize flexural and shear stresses. This load is not combined with seismic loads.



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

When subjected to an earthquake, electrical distribution systems must resist lateral and axial buckling forces, and the restraint components for these systems must resist pullout and localized structural



### 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



## Cable Tray and Conduit System Seismic Evaluation Guidelines

Rigid-mounted conduit and cable trays are inherently very stable and subject to minimal seismic amplification. A detailed dead load design review of these systems provides ample margin for

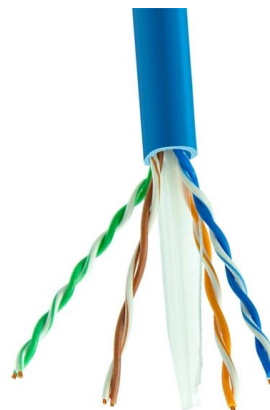


## Seismic Supports

Seismic Supports Cable trays are systems used for the safe transportation and protection of electrical cables, designed to fit the pathways within buildings and

## Seismic Cable Restraint Kits

Designed in compliance with ASCE 7 and the International Building Code (IBC), these kits offer multidirectional restraint and meet stringent requirements for life safety and equipment survivability





## Seismic Bracing Ensures Stability and Safety of Cable

Seismic Bracing - Enhancing System Stability and Seismic Resistance Seismic bracing, typically made of high-strength metal, is key component specifically

## Seismic fragility analysis of suspended cable trays in civil buildings

In this study the seismic fragility of cable tray in civil buildings is investigated by numerical analysis combined with full-scale shaking table tests. The previous study on the cable trays in civil



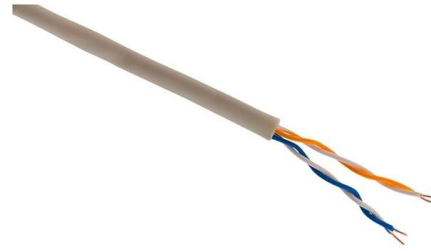
## Evaluation of cable tray and conduit systems using the seismic

A method is developed for utilizing this data in defensible, simple seismic qualification criteria and configuration controls. Qualitative comparisons are used to demonstrate the applicability



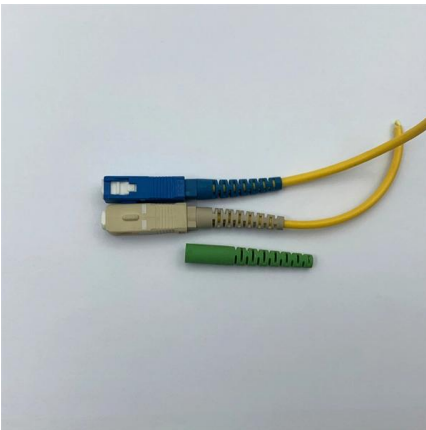
## (PDF) Performance-Based Earthquake Engineering

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



### **Performance-based optimum seismic design of cable tray system**

A performance-based optimum seismic design procedure for cable tray systems is given and verified by three studied cases.



### **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 high-seismicity region? Contact our team



### **Performance-Based Earthquake Engineering Methodology for Seismic**

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





## **Cable Tray Technical Guide A practical guide to product selection and**

Cable Tray Technical Guide 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

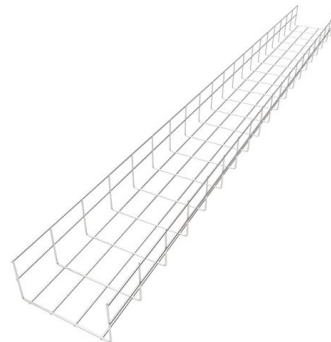


## **Test-based approach to cable tray support system analysis and**

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

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D9.0 - Electrical Distribution Systems Title  
Seismic Forces Acting On Cable Trays & Conduit  
Basic Primer for the restraint of Cable Trays &  
Conduit Pros and Cons of Struts versus Cables



## **Contact Us**

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