

Methods for fixing crossbeams and cable trays in mines



Article Overview

Cable trays and crossbeams in mines are typically fixed using modular support systems, mechanical anchors, clamps, and bolted connections designed for heavy loads and corrosive environments.

Cable Support Systems

Cable trays and ladders are used to route and support electrical cables safely in mining operations. They are generally made of steel, stainless steel, or fiber-reinforced plastic (FRP) to withstand mechanical loads and corrosive conditions . Systems include cable trays, ladders, mesh trays, and fittings such as bends, tees, and crossovers to manage complex routing .

Fixing Crossbeams

Crossbeams provide structural support for cable trays and are typically installed using:

- **Mechanical Anchors:** High-performance anchors, including chemical or mechanical post-installed anchors, secure crossbeams to concrete or steel structures. These are suitable for cracked or corrosive environments .
- **Modular Support Systems:** Adjustable modular supports allow crossbeams to be positioned precisely and reconfigured easily. Systems like Hilti MT modular supports reduce installation time and allow integration with other services .
- **Suspended Supports:** For overhead installations, crossbeams can be suspended from ceilings or roof structures using threaded rods, brackets, or hangers .

Article Content

Tray and Ladder Practice Guide | PDF | Beam (Structure) | Cable

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems,

Cable Tray Installation and Cable Handling Method Statement

Cable Tray Installation Method Statement 1. Cable Tray Installation Cable trays should be installed in accordance with the latest

(PDF) Cablebolting in underground mines

Cablebolting is a crucial method of support in underground mining, incorporating flexible steel tendons grouted into boreholes to

Safely Installing, Maintaining and Inspecting Cable Trays

Review the proper methods for safely installing, maintaining and inspecting electrical cable trays; Provide information regarding the

Beama Best Practice Guide | An Introduction | Cable Tray | CMW

Cable Tray And Ladder Best Practice Guide This publication is intended as a practical guide for the proper and safe* installation of

UNDERGROUND MINING CABLE CARE & MAINTENANCE

Anaconda® Brand mining cables are designed to reduce cable-related downtime, which can seriously impact mine profitability. In

BeamClamp heavy duty cable tray support • BEAMCLAMP

An extensive range of fixing designed to secure secondary steel work and building services equipment, such as cable trays,

An In-depth Analysis for Optimal Cable Tray Support Span

This study investigates how to define the longest cable tray support span considering constructability in order to reduce

UNDERGROUND MINING CABLE CARE & MAINTENANCE

Choosing a cable with an adequate current rating, avoiding excessive tension and mechanical damage, and using proper splicing

Cable Support and Protection

Cable support systems for mining and industrial applications are available from MineSupply International™. Our systems will help

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

The choice of method should be discussed with a local inspector. The best decision may be to extend only the cables, creating a

Practical-Rock-Engineering-Full-Text (1).pdf

This book is highly recommended for anyone who is concerned with the selection and installation of cable support for either mining or

Cable Tray Installation Procedure Guide

It describes inspecting and storing cable trays upon receipt, installing trays flat or vertically, fixing trays to structures, designing trays

Tray and Ladder Practice Guide | PDF | Beam (Structure) | Cable

Note: cable ladder systems and cable tray systems and associated supports are outside of the scope of WEEE and RoHS. 6.4

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

Beama Best Practice Guide | Installation Of The System | Cable ...

The following recommendations are intended to be a practical guide to ensure the safe and proper installation of cable ladder and

Best Practice Guide to Cable Ladder and Cable Tray Systems

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

BEAMCLAMP

An extensive range of fixing designed to secure secondary steel work and building services equipment, such as cable trays,

GRP/FRP Mita Flex Installation Guidelines

The correct installation of cable ladders and cable trays is important to help maximize the safe working load as defined by our

LEGRAND CABLE TRAYS TECHNICAL GUIDE

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management,

CABLE TRAY SYSTEMS GUIDE

Material: Side Rails: Fitting side rails are I-beams with overall dimensions similar to straight tray sections. Rungs and Bottoms: Rung

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