Riveting Methods for Fiberglass Cable Trays



Overview

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

Key Takeaways

Riveting fiberglass cable trays requires pre-drilling, using corrosion-resistant rivets, and following proper torque and alignment practices to ensure a secure and durable installation.

Tools and Materials Needed

Fiberglass cable tray rivets (corrosion-resistant, compatible with your tray system) Drill with standard twist drill bits suitable for hardwood or carbide-tipped for large quantities Rivet gun or hand riveterProtective resin to seal any drilled or cut edges Clamps or supports to hold the tray steady during installation Step-by-Step InstallationMark and Pre-Drill HolesIdentify the locations for rivets along the tray and fittings. Drill holes using a standard twist drill bit, treating fiberglass like hardwood. Ensure the tray is firmly supported to prevent chipping or cracking.

Seal Cut or Drilled Edges

Any surface that has been drilled, cut, or sanded should be sealed with a compatible resin to maintain structural integrity and prevent moisture ingress.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Insert Rivets

Place the fiberglass rivet through the pre-drilled hole. Ensure the rivet is fully seated and aligned with the mating surface.

Secure Rivets

Use a rivet gun to expand the rivet and lock it in place. Apply consistent pressure to avoid over-tightening, which can crack the fiberglass.

Check Alignment and Torque

Ensure all tray sections and fittings are properly aligned. For threaded connections or clamps used in conjunction with rivets, follow recommended torque values (e.g., 3–4 ft-lbs for thread rod nuts) to maintain load safety.

Support and Spacing

Maintain proper support spacing according to the tray manufacturer's guidelines (typically, the distance between supports should not exceed the distance between splice plates).

Best Practices

Use original manufacturer accessories to maintain warranty and system integrity. Avoid using fiberglass trays as walkways or for personnel support; they are designed solely for cable support. For long covers or wide trays, consider additional rivets or clamps at the center to prevent sagging.

By following these steps and using the correct rivets and tools, you can ensure a durable, corrosion-resistant, and safe installation of fiberglass cable trays.

Article Content

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 published load tables and to minimize deflection.

Mita Flex Installation Guidelines | PDF | Fiberglass | Screw

The document provides installation guidelines for GRP/FRP Mita Flex cable ladder and tray systems, detailing various components and their proper installation methods.

Thermoplastic Drive Rivet | Ladder Trays | Cable Tray and Reels

For extremely corrosive applications we offer a full line of straight sections, fittings, covers and mounting accessories in polyester and vinylester fiberglass.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Fiberglass Cable Tray Drop Outs

Drop Outs are using fastened to tray rungs with two Nylon Drive Rivets (NDR1). Cope fiberglass drop outs use nylon rivets for secure tray installation.

Fiberglass Cable Tray Installation Guide & Technical Data

Technical data sheet for B-Line fiberglass cable tray installation, covering safety, cutting, support, and sizing according to NEMA standards.

Mechanical joining of glass fibre reinforced polymer (GFRP) through

In this study, the design of the rivet element is presented and the functionalities of the novel rivet both with and without adhesive are proven. To reduce the laminate damage and increase

Fiberglass Reinforced Plastic (FRP) Cable Tray

Internally bonded fiberglass connectors result in no visible rivets or metal parts. Rail and posts are 48.3mm O.D. x 38.3mm I.D. This is the same outside dimension as typical metal rails for ease of

Fiberglass Cable Tray: Durable And Reliable Solution

The Fiberglass Cable Trays, offer significant long-term savings due to their durability and low maintenance requirements. They are resistant to corrosionand

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

Fiberglass Cable Tray Installation Guide

The document provides guidelines for installing and fabricating fiberglass cable tray. Some key points include: 1) Proper safety equipment should be worn like masks and gloves when cutting to avoid

Fiber Cable Tray System

Installation and maintenance of cable tray wiring systems should be performed by a minimum of two qualified technicians. For the purposes of this guideline, a qualified technician is one who is familiar

100+ Essential Questions Answered About Cable Trays:

Discover over 100 expert answers about cable trays, covering key topics like material selection, load capacity, installation methods, and maintenance.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Fiberglass (FRP) Cable Tray: Structural Features and Installation ...

As technology advances, modern infrastructure increasingly relies on composite materials to meet demands for durability, safety, and efficiency. Among these innovations, fiberglass reinforced

GRP/FRP Mita Flex Installation Guidelines

Cable Ladder Expansion Splice Plate Options The table below compares the thermal contraction and expansion based on temperature diferentials for glass fibre. The values shown represent the length

CABLE TRAY

Figure 4.51 A channel cable tray can be added to an existing cable tray system using this method to add additional approved cabling systems. Refer to the loading information of the existing cable tray

How to Install Cable Tray: A Comprehensive Guide to Different Cable ...

Welcome to our step-by-step guide on installing cable trays! In this video, we''ll explore the different types of cable trays available and provide detailed instructions for their installation.

Fiberglass Cable Trays, FRP Cable Tray, FRP Cable

FRP Cable Tray are the best solution when putting in place an ideal cable management system, and you should consider using fiberglass cable trays over

Safely Installing, Maintaining and Inspecting Cable Trays

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

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Contact Us

Continue your research online:

Website: https://alfa-pro.co.za
Technical inquiry: https://alfa-pro.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved