

Fiberglass Flame-Retardant Cable Tray Models

Article Overview

For flame-retardant applications, FRP cable trays made with fire-retardant polyester or vinyl ester resin, meeting ASTM E84 Class 1 and UL 94 standards, are recommended.

Key Considerations for Selection

1. Resin Type: The choice of resin is critical for both flame retardancy and chemical resistance. Polyester resin is cost-effective and suitable for general industrial environments with light acidic or alkaline exposure, while vinyl ester resin offers superior resistance to strong acids, bases, and high temperatures, making it ideal for chemical plants, offshore platforms, and harsh industrial settings . Epoxy resin composites can also be used for heavy-load applications requiring additional mechanical strength .

2. Tray Type:

- o Ladder Type: Open design allows excellent ventilation and heat dissipation, suitable for power cables and large-diameter control cables. Recommended for industrial plants and substations .

- o Trough/Channel Type: Provides moderate protection while allowing ventilation, ideal for control, communication, and instrumentation cables . Optional covers enhance protection in outdoor or dusty environments.

- o Solid Bottom Type: Fully enclosed, offering maximum protection against dust, liquids, and mechanical damage. Suitable for tunnels, commercial buildings, and sensitive installations .

3. Flame-Retardant Standards: Ensure the FRP tray meets ASTM E84 Class 1 for flame spread and UL 94 V-0 for self-extinguishing properties . These standards confirm the tray will resist ignition and limit fire propagation.

4. Environmental Factors: FRP trays are non-conductive, corrosion-resistant, and UV-stable. For marine or offshore applications, vinyl ester trays with UV inhibitors are preferred. For chemical plants, trays with high chemical resistance and fire-retardant additives are recommended .

5. Load and Span Requirements: Ladder trays with reinforcing ribs or epoxy-metal hybrid trays are suitable for heavy loads and long spans, while trough or solid-bottom trays are better for lighter loads or sensitive cables .

Recommendation Summary

- o General Industrial/Light Corrosive Areas: Fire-retardant polyester FRP ladder or trough tray.



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- o Chemical Plants/Harsh Environments: Fire-retardant vinyl ester FRP tray, ladder or solid-bottom depending on cable sensitivity.
- o Marine/Offshore: Vinyl ester FRP ladder tray with UV and flame-retardant additives.
- o Heavy Load/Long Span: Epoxy resin composite FRP tray with metal reinforcement.

Selecting the correct resin type, tray design, and flame-retardant rating ensures long-term durability, safety, and compliance with fire codes while minimizing maintenance costs .

SFSP-INTECH Fiberglass Reinforced Plastic Cable Management System is designed, manufactured, and tested to be installed in

Fire Rated Cable Trays that are crafted from premium materials like stainless steel, galvanized steel, tempered glass, and fire

Seasafe Cable Tray and Cable Raceway will not rust, nor do they ever require painting. Available in both polyester

Our trays are manufactured from Fiberglass Reinforced Plastic (FRP) using high

High Strength-to-Weight: Supports heavy cable bundles while remaining light and easy to handle.
Non-Conductive Material:

Looking for durable and corrosion-resistant Fiberglass Cable Tray? Our lightweight, high-strength trays offer long-lasting

Discover how fiberglass cable trays improve safety, corrosion resistance, and lifecycle cost in harsh industrial

Stop cable tray corrosion! Discover polymer & fiberglass solutions for longer life & less

FRP cable trays Ferrotech's FRP Cable Tray Systems offer a robust and versatile solution for managing cables in harsh

Fiberglass Reinforced Plastic (FRP) Cable Tray SFSP FRP Cable management System is manufactured under the brand name

Tested for ABS, NEMA and IEC, B-Line series fiberglass cable tray is ideal for harsh, marine and caustic

FRP Cable Trays are a superior alternative to conventional steel or aluminum trays, particularly in



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Enduro cable tray and cable ladder sets the industry standard for high-quality fiberglass cable tray. Our FRP cable tray is extremely

Discover FRP Cable Trays: The Future of Durable & Eco-Friendly Cable Management. Learn How

FRP Cable Tray are the best solution when putting in place an ideal cable management system, and you

Eaton's B-Line series fiberglass cable tray systems provide an economical support system with superior strength at room

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