Composite material trough-type cable trays



Overview

FRP Cable Trays Our trays are manufactured from Fiberglass Reinforced Plastic (FRP) using high Fiberglass Cable Tray Types & Guide | UnicompositeLearn fibe.

Key Takeaways

Trough-type cable trays made from composite materials like FRP provide durable, corrosion-resistant, and electrically non-conductive support for cables in harsh industrial and outdoor environments.

Overview

Composite material trough-type cable trays are typically made from fiberglass-reinforced plastic (FRP) or glass-reinforced polymer (GRP), combining high-strength fibers with a resin matrix to create a lightweight yet robust support system for electrical and data cables. The trough design features a bottom plate with side rails, offering more protection than ladder-type trays while still allowing some ventilation for heat dissipation. This makes them ideal for control cables, communication lines, and instrumentation circuits that require shielding from dust, moisture, and mechanical damage.

Key Advantages

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Corrosion Resistance: FRP trays are highly resistant to chemicals, saline environments, and industrial pollutants, unlike steel trays which can rust or corrode. Electrical Insulation: Being non-conductive, FRP trays reduce the risk of electrical hazards and electromagnetic interference, making them suitable for sensitive installations. Lightweight and Strong: FRP offers a high strength-to-weight ratio, supporting heavy cable loads while remaining easy to handle and install.

Fire and U

V Resistance: Many FRP trays meet fire safety standards (UL-94, ASTM E84) and include UV inhibitors for outdoor durability. Low Maintenance: Once installed, these trays require minimal upkeep, with no need for grounding or corrosion-related repairs. ApplicationsTrough-type FRP cable trays are widely used in chemical plants, offshore platforms, water treatment facilities, power plants, and industrial complexes where environmental conditions are harsh.

They are also suitable for outdoor installations due to their UV and weather resistance. Optional covers can be added to protect cables from rain, snow, or falling debris, enhancing safety and longevity.

Installation and Design Considerations

Support and Mounting: FRP trough trays can be mounted on walls, ceilings, or elevated supports. They are compatible with FRP couplers, hangers, and support hardware. Ventilation: While the trough design provides partial ventilation, covers can be used in environments with high dust or moisture.

Customization: Available in various lengths, widths, and load capacities to accommodate different cable bundles and installation requirements.

Conclusion

Composite material trough-type cable trays offer a reliable, long-lasting, and safe solution for cable management in demanding environments. Their combination of corrosion resistance, electrical insulation, lightweight strength, and low maintenance makes them a superior alternative to traditional metal trays, particularly in industrial, chemical, and outdoor applications.

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Article Content

Fiberglass Cable Tray Types & Guide | Unicomposite

Learn fiberglass cable tray types and specs. Compare trough, tray, ladder and epoxy composite systems to choose the right cable support for industrial projects.

Cable trays

We offer a wide range of cable tray systems to support tubing, electrical cables and instrumentation. Our cable trays are produced in fit for purpose materials like

Manufacturer of GRP/FRP Pipe & Chemical Equipment by ...

They are naturally non-conductive and lightweight, yet strong enough for heavy cable loads. FRP trays are available in multiple configurations (ladder, solid bottom, perforated, channel, wire mesh, trough,

FRP Cable Trays

Built using premium resins and advanced manufacturing techniques, our trays provide secure cable routing, withstand extreme weather, and require minimal

Fiberglass (FRP) Cable Tray for Extreme Conditions

Made from the highest quality pultruded materials, our Fiber Reinforced Polymer (FRP) cable tray is extremely durable and resistant to chemical attack, with a proven record of performance in the most

GRP Cable Trays | Lightweight & Non-Conductive

GRP cable trays for supporting and protecting power and data cables. Lightweight, non-conductive, corrosion resistant and easy to install.

FRP Cable Trays | Snap-Fit Trough & Ladder Tray Supplier

Non-conductive FRP cable trays for solar, data centres and industrial projects. Snap-fit trough and ladder tray designs. Corrosion-free, lightweight and supplied to specification.

FRP Cable Tray Catalog Features & Specs & Applications

Besides, FRP channel cable tray and FRP ladder type cable tray are also available with cover. For further security, covers are used where cable protection is required or desired.

Product Catalogue Cable Management Solutions

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With over 20 years of experience T&B Cable Tray provides a complete solution in cable management systems including design, manufacturing and technical support by offering a complete solution for

FRP Cable Tray

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FRP, GRP, Fibreglass Materials Manufacturers and Exporters

Soil composition, presence of acidic contents, humidity, salt, direct & long water contact, etc are main factor which damage metal the most. FRP/GRP Composite is a New Age “GREEN” solution to points

Forecast for the GRP Cable Trays Market from 2026 to 2033 at

The GRP (Glass Reinforced Plastic) Cable Trays market is experiencing robust growth, driven by increasing demand for lightweight, corrosion-resistant materials across various industries,

FRP Cable Trays

FRP Cable Trays SV Composites & Engineering offers premium-quality FRP Cable Trays designed to support and manage electrical cables in industrial and

Fiberglass (FRP) Cable Tray for Extreme Conditions

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

FRP Cable Tray Catalog Features & Specs & Applications

Ideal for Managing and Protecting Cables FRP cable tray is the support system for managing cables and protect cables from heating, rains and corrosive elements.

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