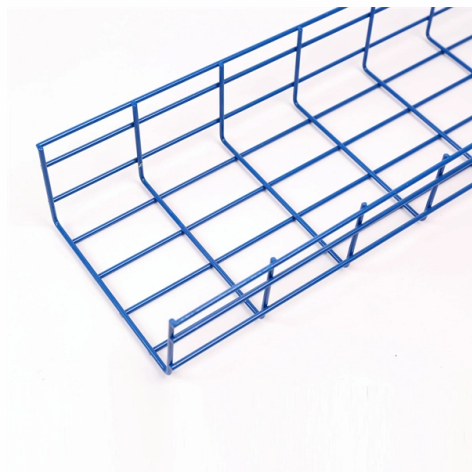


Non-perforated enclosed trough cable tray



Overview

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

Key Takeaways

A non-perforated enclosed trough cable tray is a solid-bottom cable management system designed to fully protect electrical cables from dust, moisture, and physical damage while providing organized routing in industrial, commercial, and residential settings.

Non-perforated enclosed trough cable trays, also known as solid-bottom or closed cable trays, feature a completely flat, hole-free base with continuous side rails. This design ensures maximum protection against external contaminants, including dust, water, chemicals, and accidental contact, making them ideal for sensitive or hazardous environments. Unlike perforated or ventilated trays, these trays do not allow airflow through the base, which reduces heat dissipation but enhances cable safety and aesthetics.

Key Advantages

- Protection from external hazards: Shields cables from impact, abrasion, dust, liquids, and sparks.
- Enhanced safety: Minimizes the risk of electrical shock by preventing accidental contact with live wires.

- **Durability:** Constructed from high-quality materials such as galvanized steel, stainless steel, aluminum, or low-carbon steel, offering corrosion resistance and long service life .
- **Aesthetic and organized installation:** Conceals cables for a cleaner appearance, suitable for visible areas in commercial or residential spaces .
- **Versatility:** Can be used in industrial plants, power stations, data centers, offices, and high-rise buildings .

Applications

Non-perforated enclosed trough trays are commonly used in environments where cable protection is critical:

- **Industrial settings:** Factories, chemical plants, and food processing facilities where dust, liquids, or sparks are present .
- **Commercial and residential spaces:** Offices, data centers, and high-rise buildings requiring organized and concealed cable routing .
- **Outdoor or exposed installations:** Areas where cables are subject to weather or mechanical stress .

Design Considerations

- **Material selection:** Galvanized or stainless steel is preferred for corrosion resistance and mechanical strength, while aluminum offers lightweight options .
- **Load capacity:** Must comply with standards such as DIN EN 61537, which specifies mechanical load tests and allowable deformation .
- **Thermal management:** Since non-perforated trays limit airflow, cable heat buildup should be considered, especially for high-power installations .

Summary

Non-perforated enclosed trough cable trays provide a robust, safe, and organized solution for cable management where protection from environmental hazards and physical damage is a priority. They are suitable for a wide range of applications, from industrial plants to commercial and residential buildings, and are available in various materials and sizes to meet specific installation requirements .

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Drawing a comparison between perforated cable trays and solid cable trays is the focus of this blog, and identifying

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