

Cable tray supports need rust removal

Article Overview

Yes, cable tray supports that show signs of rust should be addressed promptly to maintain structural integrity and prevent further corrosion.

Importance of Rust Removal

Rust on cable tray supports can compromise both mechanical strength and electrical safety. Corrosion occurs when steel or iron components react with moisture and oxygen, forming iron oxide (red rust), which gradually weakens the metal and can damage protective coatings like zinc on galvanized steel. Even stainless steel can develop rust spots in harsh environments with high humidity, rain, or high pH conditions, especially if the alloy quality is low.

When Rust Removal is Needed

- **Visible rust or pitting:** Any surface rust, discoloration, or flaking indicates that the protective layer is compromised and should be removed.
- **Damaged coatings:** If zinc or other protective coatings are worn or scratched, the underlying steel is exposed and susceptible to accelerated corrosion.
- **Critical load-bearing supports:** Rust on supports that carry heavy cable loads can reduce structural reliability and should be treated immediately.

Methods for Rust Management

- **Mechanical Cleaning:** Use wire brushes or sandpaper to remove loose rust, followed by cleaning with mild detergents to remove debris.
- **Protective Coatings:** After rust removal, apply zinc-rich paint, galvanizing sprays,...

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SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

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Must be level, plumb, and securely mounted on supports. Joint Connections: Use dedicated splice plates

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CABLE TRAYS

There are different methods to check the durability of steel parts. Some are standardized, others are empirical. According to IEC

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