

Article Overview

Heavy-duty precast concrete cable troughs are the preferred solution for safely routing cables across roads, supporting vehicular traffic while providing flexible installation options.

Types of Cable Troughs for Road Crossings

Heavy-duty cable troughs are specifically designed for areas with vehicular traffic, such as road crossings. These systems are typically made from precast concrete or fibre-reinforced concrete, offering maximum lateral stability and durability under heavy loads . Standard lengths are often 10 feet, with widths ranging from 24" to 40" and customizable depths to suit project requirements . Optional load ratings, such as H-20, ensure the trough can safely support road traffic .

Key Features and Accessories

- o End Caps: Provide a clean terminus for cable runs and allow for future expansion .
- o Corners, Tees, and Crosses: Enable flexible routing, including splitting or merging cable runs .
- o Pulling Vaults: Facilitate cable installation and maintenance, available in medium and heavy-duty ratings, with customizable heights and drain options .
- o Covers: Solid, non-slip ductile iron or galvanised steel covers protect cables while allowing easy access for inspection or maintenance .

Installation Considerations

- o Load Rating: Ensure the cable trough is rated for the expected traffic load, typically H-20 for road crossings .
- o Material Selection: Precast concrete is preferred for durability, while recycled composite options are available for lighter applications .
- o Drainage: Standard 4" drain holes or custom drainage options prevent water accumulation .
- o Flexibility: Modular systems allow for quick adaptation to site-specific layouts, including curves, intersections, and varying cable sizes .

Advantages

- o Durability: Resistant to heavy traffic, environmental exposure, and mechanical damage.
- o Ease of Maintenance: Removable covers and vaults allow for cable inspection, replacement, or expansion without major excavation.
- o Design Flexibility: Modular components accommodate complex routing and future upgrades.
- o Safety: Protects cables from physical damage and reduces risk of electrical hazards in high-traffic areas. For

Cable Trays for Crossing Roads

projects involving road crossings, selecting a heavy-duty precast cable trough system with appropriate load ratings, modular accessories, and durable covers ensures both safety and long-term reliability . Consulting with manufacturers like C&M, HAURATON, or Trenwa can provide tailored solutions for specific site conditions and traffic requirements .

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Cable trough ensures the ground stability of trackside and lineside cables without experiencing gradual

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Cable tray systems are engineered support structures designed to route, support, and protect insulated electrical

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High stability concrete or composite cable trough systems for secure protection of cables and utilities within internal or external

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Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

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