

Side supports for cable trays in electrical wells are typically wall brackets, channel supports, or suspended supports designed to secure trays, maintain cable organization, and withstand mechanical loads.

Types of Side Supports

Wall and side brackets are commonly used to attach cable trays to the walls of an electrical well. These supports provide lateral stability and prevent the tray from shifting under the weight of cables or during short-circuit events. Channel supports or strut systems can also be used to mount trays along vertical surfaces, offering flexibility for adjusting tray height and alignment. In some cases, suspended supports from the ceiling or overhead structure may be combined with side supports to enhance stability.

Installation Considerations

Support Spacing: Short-span trays (6–8 feet) and intermediate-span trays (10–12 feet) require supports at regular intervals to maintain structural integrity. The spacing should be chosen based on tray type, load, and cable weight.

Load Capacity: Side supports must be rated to handle the combined weight of the tray and cables, including any dynamic forces such as vibration or short-circuit stress.

Material and Corrosion Protection: Supports are typically made of steel or stainless steel, often with galvanization or other coatings to resist corrosion in electrical wells.

Compatibility: Ensure that the side support system is compatible with the cable tray type (ladder, solid-bottom, or mesh) and any splice plates used to connect tray sections.

Best Practices

Use one splice plate per support span to maintain alignment and strength. Ensure that the tray length is equal to or longer than the support span to avoid unsupported sections. Maintain proper clearance for cable bending and thermal expansion, especially in vertical runs. Secure cables to the tray rungs or side rails using tie-downs or clamps to prevent movement and maintain...

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In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and any additional loading that may be applied to the cable tray system (e.g.,

Guide to cable support systems

It specifies the requirements and testing for cable support systems, which are intended to support and house cables, as well as other electrical resources in electrical installations or communication systems.

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INSTALLATION GUIDE

Center hung tray supports allow for quicker and easier cable installation by allowing cables to be deposited into tray systems from each side. There is a maximum load capacity per hanger of 318 kg

GUIDE CABLE TRAYS TECHNICAL

This standard specifies the requirements and test methods for cable trays, cable ladders, supports and their accessories to ensure complete safety of installations.

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Cable Tray Trunking & Ladder Installation Method for Projects

The purpose of this article is to define the sequence and methodology for the installation of electrical cable trays, cable trunking, cable raceways and boxes, junction and pull boxes. The

Designing Cable Tray Layouts for Industrial Facilities

Future Trends in Electrical Drafting and Cable Tray Design As the industrial and technological landscapes evolve, several trends are emerging in the design of cable tray layouts: Smart

Cable Management Support Systems

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports are manufactured according to common standards from high quality

Guide to cable support systems

The load capacity of the cable trays according to the support width can be read of in the diagram using load curves – here, shown as an example for a cable tray with the tray widths 100 to 600 mm.

Contact Us

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