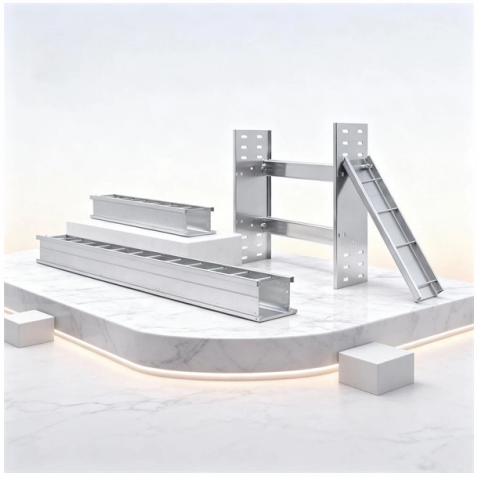
Welding of cable tray shaft funnel



Overview

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Key Takeaways

Welding a cable tray shaft funnel requires proper positioning, temporary support, and adherence to material and safety standards to ensure structural integrity and cable protection.

Preparation and Positioning

Before welding, select the precise welding position for the cable tray shaft funnel along the intended cable route. The funnel, which serves as a transition or connection point between vertical and horizontal tray sections, must align with the main cable tray system to maintain proper cable routing and minimum bend radius for cables. Ensure the funnel is free from debris, and the surfaces to be welded are clean and free of coatings that could interfere with the weld.

Temporary Support

To facilitate welding, temporarily attach the funnel to a stable surface such as a floor, wall, or existing support structure. This can be done using clamps or temporary fasteners to hold the funnel in place while maintaining alignment with the main tray. Proper temporary support prevents misalignment and reduces the risk of deformation during welding.

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Welding Procedure

Select the welding method appropriate for the material of the cable tray (commonly steel, stainless steel, or aluminum). For steel trays, MIG or TIG welding is often used, while aluminum may require TIG welding with proper shielding gas. Form a bonding surface at the lower portion of the funnel or tray section to improve welding convenience and ensure a strong joint.

Perform the weld along the prepared joint, ensuring full penetration without overheating the tray, which could compromise structural integrity or damage protective coatings. Inspect the weld for continuity, strength, and absence of cracks or porosity. Ensure the welded funnel maintains the correct orientation and slope for cable routing.

Post-

Welding Considerations

Surface treatment: If the tray is galvanized or coated, touch up the weld area to prevent corrosion. Cable installation: Ensure the welded funnel allows cables to exit without exceeding the minimum bend radius, avoiding stress on the cables. Compliance: Follow relevant standards such as NEMA or local electrical codes for cable tray installation and welding practices.

By following these steps, the welded cable tray shaft funnel will provide a secure, aligned, and durable transition for cable routing, ensuring both mechanical stability and electrical safety.

Article Content

Cable Tray Support Weld Design Analysis | PDF

The document discusses the weld design for connections of different sized cable trays. It provides maximum and minimum force calculations for beams of various cross sections, including PFC

Cable Tray Funnel Making Tutorial #CableTray #Fabrication

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Cable Tray Erection Method Statement | PDF | Welding

Cable Tray Erection - Updated - Free download as Word Doc (.doc / .docx), PDF File (.pdf), Text File (.txt) or read online for free.

Cable Tray Technical Guide A practical guide to product selection and ...

Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray system must be maintained.

Technical Specification for Cable tray installation and cable laying work

Approval of IPR shall be obtained for site preparation and marking the cable tray routes and locations of cable tray support before proceeding with the erection and installation work.

Cable Tray Funnel Fabrication Tutorial

Cable Tray Funnel Fabrication Tutorial#CableTray #Fabrication #Tutorial Abir Riyad Fun 4 views 6 minutes ago

Cable tray support and its welding method

As described above, the cable tray support and the welding method according to an embodiment of the present invention can weld the welding area by the operator alone while the joint...

Cable tray manual

Instead of large conduits, cable channel may be used very effectively to support cable drops from the cable tray run to the equipment or device being serviced and is ideal for cable tray runs involving a

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This video will show the complete process of manufacturing cable tray mesh using advanced welding machines. Watch how precision welding and automation technology transform raw materials into high ...

Automatic Cable Tray Roll Forming Machine, Cable

HCM-600 Cable Tray Automatic Production Line is a cable tray roll forming line that adopts metal sheet coils as raw material. It forms the sheet into specific shapes

Cable Tray Technical Guide A practical guide to product selection and ...

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics, installation, and

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Best Practice Guide to Cable Ladder and Cable Tray Systems

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the support and accommodation of cables and possibly other electrical

Cable tray support and its welding method

According to an embodiment of the present invention, a method to weld a cable tray support, which is capable of improving convenience of welding by forming a bonding surface on the lower part,

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How to build Cable Tray | Wire Mesh Cable Tray Welding Machine

In this video, I will show how to build cable tray wire mesh with a wire mesh welding machine. ---RKM MachineryDo you know how many steps are needed to make ...

Best practice guide to cable ladder and cable tray systems

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure the safe and proper installation of cable ladder and cable tray systems

Buy Welding Cable Tray Heat Dissipation Design | Alibaba

Types of Welding Cable Trays A welding cable tray is an essential component in industrial and commercial electrical installations, designed to support and organize welding cables while ensuring

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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