High-Density Installation Solution for Antistatic Flooring Cable Trays in Bahrain



Overview

Cable Management Systems Division We provide cable management solutions to keep wires and cables organized, protected and secure. Cable management systems.

Key Takeaways

Anti-static raised flooring systems with integrated cable trays provide high-density, safe, and accessible solutions for ESD-sensitive environments.

Overview

For high-density installations in Bahrain, anti-static raised floor systems are ideal for managing cable trays while ensuring electrostatic discharge (ESD) protection. These systems are designed to protect sensitive electronic equipment, laboratories, and data centers from static electricity, which can damage components or trigger safety hazards (Sika® Flooring, Flowcrete, CWWIN Floor).

Key Features

Modular Raised Panels: Panels are supported by adjustable pedestals, creating a void beneath the floor for cable trays, power lines, and HVAC systems. This allows for easy access and maintenance without disrupting operations. Conductive Materials: Panels are made from woodcore, steel, calcium sulfate, or aluminum, each offering consistent electrical resistance (1x106 to 1x109 ohms) to safely dissipate static charges.

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High Load-

Bearing Capacity: Steel and calcium sulfate panels support heavy equipment, while aluminum panels provide corrosion resistance for specialized environments. Surface Options: Anti-static finishes include smooth, antislip, epoxy, polyurethane, or vinyl ester coatings, tailored for chemical resistance, thermal stability, and hygiene requirements. Integrated Cable Management: The underfloor void accommodates high-density cable trays, eliminating overhead clutter and improving workplace aesthetics while maintaining accessibility for modifications.

Installation Considerations

Pedestal and Stringer Framework: Ensures stability and uniform load distribution across the floor. Grounding System: Panels must be properly grounded to maintain ESD protection across the entire floor area. Panel Selection: Choose panel material based on load requirements, environmental conditions, and chemical exposure.

Maintenance Access: Modular design allows individual panels to be removed for cable inspection or upgrades without major disruption.

Advantages

Enhanced ES

D Protection: Reduces risk of equipment damage and operational downtime. Optimized Space Utilization: High-density cable management under the floor maximizes usable workspace. Durability and Longevity: Materials like steel and aluminum ensure long-term performance in industrial and technical environments.

Compliance with Standards: Meets international ESD standards such as EN 61340-5-1 and EN 61340-4-5.

Recommended Applications in Bahrain

Data centers and server roomsElectronics manufacturing and assembly facilitiesLaboratories and cleanroomsControl centers and high-tech industrial environments By selecting a modular anti-static raised floor system with integrated cable trays, facilities in Bahrain can achieve a high-density, safe, and maintainable infrastructure that supports both operational efficiency and ESD compliance.

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Article Content

Cable Management Systems Division

We provide cable management solutions to keep wires and cables organized, protected and secure. Cable management systems can prolong the life of your

Navitas Electricals WLL | Ebrahim K. Kanoo B.S.C. (c)

The company manufactures, supplies and installs a comprehensive range of cable trays in different dimensions, built to NEMA VE-1, BS and European Standards.

Delta GRP Cable Trays

Delta''s GRP cable trays and ladders are manufactured in Ajman and supplied across Dubai, Oman, Qatar, Bahrain, Kuwait, and Saudi Arabia, offering

Anti Static Raised Floor Systems: Advanced Protection for Technical ...

This innovative flooring solution combines elevated structural support with advanced anti static properties, effectively dissipating static electricity while providing essential cable management

Electrostatic Discharge (ESD) Flooring

Sikafloor® ESD (Electro Static Discharge) and Sikafloor® ECF (Electrically Conductive Flooring) Systems can safeguard your entire process. These

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The result is a highly resistant finish with antistatic properties and excellent visual versatility. This makes it ideal for spaces such as corporate offices, control rooms, data centers, and

Sika® Flooring | Anti-static & ESD systems

Sika''s ESD flooring systems protect sensitive electronics from static electricity, ensuring safety in industries with explosive atmospheres or delicate equipment.

StaticWorx GroundSafe® ESD Flooring | We Keep You Grounded

StaticWorx telecom flooring maintains grounding continuity across raised floors and cable pathways while meeting ATIS 0600321 electrical performance requirements.

Anti-Static ESD Flooring Solutions | Stonhard

For corridors supporting AGVs, Stonshield ESD conductive flooring was installed to protect sensitive equipment from static electricity. It also provides abrasion and wear resistance with a wide range of

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Raised Floor Solutions

Our all-in-one solution for control rooms, server rooms and plant rooms combines supports for floor tiles, cabinets and cable trays in one structure. The system is fully modular – meaning easier adjustment

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Anti-Static Epoxy Flooring – Methods and Applications

Anti-static epoxy flooring is mostly used in electronic and telecommunication industries, automotive industries, pharmaceutical factories, aerospace industries, operation theatres, computer rooms etc.

PowerPoint Presentation

room with a clean and reliable environment for managing IT equipment, airflow and structured cabling. The raised floor panels are offered in a range of finishes and provide an anti-static, clean

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