

Raw Materials for Cable Trays in South Korea



Overview

Cable Trays Market in South Korea | Report The South Korean cable trays market is a critical component of the nation's advanced industrial and technological infrastructure.

Key Takeaways

Cable trays in South Korea are primarily made from galvanized steel, stainless steel, aluminum, and fiberglass, each selected for specific performance, durability, and environmental requirements. Common Raw Materials



Galvanized Steel: Widely used for its strength, load-bearing capacity, and cost-effectiveness. Galvanized steel trays are coated with zinc to resist corrosion, making them suitable for industrial and commercial applications. The steel used often meets standards such as Q235B with a minimum thickness of 1.5mm and yield strength ≥ 235 MPa, ensuring structural integrity under heavy loads .

Stainless Steel: Preferred in environments requiring high corrosion resistance, such as chemical plants or coastal areas. Stainless steel trays offer durability and long service life, though at a higher cost compared to galvanized steel .

Aluminum: Lightweight and corrosion-resistant, aluminum trays (commonly 6063-T5 alloy) are ideal for data centers and installations where weight reduction is critical. Aluminum trays are approximately 42% lighter than steel but can cost 65% more. Recycled aluminum is also used to reduce carbon emissions while maintaining strength with minor alloy adjustments .

Fiberglass and Composite Materials: Vinyl resin fiberglass trays are used in high-temperature or chemically aggressive environments, such as acidic conditions up to 90°C. These materials reduce maintenance costs and provide excellent resistance to corrosion and electrical insulation .

Material Selection Considerations

- **Load Capacity:** Steel is preferred for heavy-duty applications, while aluminum and fiberglass are suitable for lighter loads.
- **Environmental Conditions:** Corrosive or high-humidity environments favor stainless steel or fiberglass.
- **Fire Resistance:** Coatings like ceramic-silicone can enhance fire resistance, maintaining structural integrity at temperatures up to 950°C for 120 minutes .
- **Cost and Availability:** Material costs fluctuate with raw material prices, such as iron ore for steel or aluminum futures, influencing procurement strategies .

Market Context in South Korea

The South Korean cable tray market is growing due to industrial expansion, smart city projects, and data center construction. Manufacturers adhere to stringent national standards for electrical safety, fire resistance, and load tolerance. Major industrial hubs like Seoul, Busan, and Gyeonggi province drive demand for high-quality tray systems, often favoring materials that balance durability, weight, and cost . In summary, galvanized steel, stainless steel, aluminum, and fiberglass are the primary raw materials for cable trays in South Korea, with selection guided by environmental conditions, load requirements, and regulatory compliance. Manufacturers continuously innovate with coatings, composites, and recycled materials to optimize performance and sustainability .

Article Content

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Cable tray, bolt, plus hanger #Company introduction Seoyoung Industrial Co., Ltd. was established in 2006 as a specialized cable

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