

Installation cost of trapezoidal cable trays

Article Overview

The installation price of trapezoidal cable trays typically ranges from \$5 to \$50 per meter, depending on material, size, and installation complexity.

Material Costs

Trapezoidal cable trays are commonly made from steel, aluminum, FRP (fiberglass), or stainless steel, and the material significantly affects the price per meter. Steel trays are the most cost-effective, generally \$5-\$25 per meter, while aluminum trays cost \$6-\$30 per meter due to their lightweight and corrosion-resistant properties. FRP trays, suitable for aggressive environments, range from \$10-\$50 per meter, and stainless steel trays, the most durable and corrosion-resistant, can cost \$20-\$100 per meter depending on specifications and environmental requirements .

Installation Costs

Installation costs are influenced by several factors, including tray size, installation height, routing complexity, support spacing, and labor conditions. Elevated or hard-to-access installations increase labor requirements and overall cost. Skilled labor, equipment depreciation, and additional materials such as hangers and fittings also contribute to the total installed price . For example, a standard indoor installation may be less expensive than an outdoor or industrial setup where corrosion protection and heavy-duty supports are required.

Cost Components

A complete installation price typically includes:

- o Material cost: The tray itself and any coatings (HDG, powder coating, or pre-galvanized)
- o Labor cost: Skilled workers for handling, positioning, and securing trays
- o Support and fittings: Brackets, hangers, elbows, and junctions
- o Coordination and engineering: Planning to avoid conflicts with HVAC, piping, or other infrastructure
- o Transportation and logistics: Heavier trays or remote locations increase shipping costs

Practical Price Range

For a typical industrial or commercial project:

- o Steel trapezoidal tray: \$5-\$25 per meter installed
- o Aluminum tray: \$6-\$30 per meter installed



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o FRP tray: \$10-\$50 per meter installed

o Stainless steel tray: \$20-\$100 per meter installed These prices are indicative and can vary based on project location, labor market, tray width, and environmental conditions. Bulk orders or optimized engineering can reduce costs by 20-40% in large-scale projects .

Summary

The total cost of trapezoidal cable tray installation is a combination of material selection, labor, and project-specific factors. While steel trays are the most economical, aluminum, FRP, and stainless steel offer advantages in corrosion resistance and durability, which may justify higher upfront costs. Proper planning and coordination can significantly reduce installation expenses without compromising safety or quality .

Cable tray is less expensive, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does

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The cable tray price list are for hot dip galvanized ladder type cable tray. The price is based on standard length of the

Learn the best practices for installing cables in trays. This guide covers essential steps,

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