

Dimensions of angle iron used for cable tray supports

Article Overview

Angle iron for cable tray supports typically ranges from 30x30 mm to 50x50 mm with thicknesses of 3-5 mm, often featuring longitudinal slots for adjustable mounting.

Recommended Dimensions

For standard cable tray installations, angle irons with legs of 30-50 mm and thicknesses of 3-5 mm are commonly used. For example, a 30x30x3 mm angle iron with 7x30 mm longitudinal slots is suitable for supporting light to medium cable loads and allows flexible positioning of trays and ladders. Heavier cable trays or longer spans may require larger angles, such as 40x40x4 mm or 50x50x5 mm, to ensure structural stability and prevent deformation under load.

Slotting and Mounting

Many angle irons designed for cable tray support come with pre-punched longitudinal slots, typically 7x30 mm, which allow for easy bolting and adjustment of cable trays, ladders, or other electrical installations. These slots enable precise alignment and height adjustment without welding, making installation faster and more flexible.

Span and Load Considerations

The span between supports and the total cable load are critical factors in selecting the angle iron size. Shorter spans with lighter cables can use smaller angles, while longer spans or heavier cable bundles require thicker or larger angle irons to maintain rigidity and prevent sagging. Industrial environments with vibration or mechanical stress may also necessitate heavier gauge steel or bolted/welded connections for long-term stability.

Material and Finish

Angle irons are typically made from galvanized steel or stainless steel to resist corrosion, especially in industrial or outdoor installations. Stainless steel is preferred in environments with high humidity, chemical exposure, or where long-term durability is critical.

Practical Example

A commonly used support angle is AI-LW-30-3000-3-M6, which is a 3-meter-long, 30x30 mm stainless steel angle with 7x30 mm slots, suitable for universal cable tray support. For heavier installations, increasing the

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leg size to 40-50 mm and thickness to 4-5 mm is recommended.

Summary

- o Light to medium loads: 30x30x3 mm with slots
 - o Medium to heavy loads: 40x40x4 mm or 50x50x5 mm
 - o Slot size: 7x30 mm for adjustable mounting
 - o Material: Galvanized or stainless steel
 - o Span consideration: Larger angles for longer spans or heavier cables
- Selecting the correct angle iron ensures structural stability, ease of installation, and long-term reliability of cable tray systems in industrial or commercial settings .

Cable ladder systems and cable tray systems are designed for use as supports for cables and not as enclosures giving full

Perforated & Solid Cable Tray Dimensional Drawing - Tray Height 25mm Outside Flange (B) 50 8 x 20 typ. 75

Learn how to accurately calculate cable tray support quantities in electrical installation

Angle Tray High strength Angle trays are designed for heavy-duty power distribution in industrial facility, which is fabrication using

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

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As a source manufacturer, we offer a full range of custom hot-dip galvanized angle iron, including equal/unequal-legged, perforated,

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Common cable tray accessories include cable ties, cable clips, cable ladders, and cable management kits. They are available in

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Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

The document provides information on cable tray sizing including cable types and weights, tray sizes and weights, bending moment

2. Design and construction requirements specify that cable trays must be ladder or perforated type depending on cable, fabricated

Cable Management Support Systems Cable Support Systems are well designed to provide necessary support for cable trays, cable

The typical radius is 24 inches. Fittings are also available for 30°; 45°; 60°; and 90°; angles. When a standard angle will not work,

Standard length of about 10 feet (118") Wire Mesh tray is generally used for telecommunication and fiber optic applications and are

We are Manufacturer, Supplier, Exporter of Cable Trays, Cable Tray Support Systems, Horizontal Bend for Cable Trays, from Pune,

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