

How thick is the angle iron for the base of a communication tower



Overview

Option A (All Q235 Mild Steel): To hold the weight of the antennas, the leg angles might need to be 200mm wide and 20mm thick. The total tower weight is 15 tons. Whether you're building a metal frame, reinforcing a structure, or designing custom supports, knowing the correct angle iron specs can make or. The most common steel grades used in mobile communication towers are Q235B (Mild Steel) for secondary bracing and Q345B/Q355B (High-Tensile Steel) for main structural legs. In international standards, these correspond to ASTM A36 and ASTM A572 Grade 50 respectively. For. Hot rolled ASTM A36 steel angle bar is the most widely used structural steel by the construction industry as its very economical cost. Structural mild A36 angles are manufactured by rolling pre-heated blooms into an angle shape. The tower transfers vertical and horizontal loads through a triangulated framework into the foundation, creating a highly efficient load path.



Article Content

Dec 09, 2025

Angle Steel Tower: Engineering, Design & Procurement Guide for ...

3-leg angle steel towers are often used where space is limited or loads are moderate. They offer material efficiency but require precise foundation design. 4-leg angle steel towers provide ...

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What Steel Grades Are Used in Mobile Communication Towers?

The most common steel grades used in mobile communication towers are Q235B (Mild Steel) for secondary bracing and Q345B/Q355B (High-Tensile Steel) for main structural legs.

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(PDF) Design of telecommunication tower

In this design, the tower is modelled as a steel lattice structure, adhering to the guidelines of IS 800:2007, ensuring both strength and economic efficiency. The project evaluates axial loads, wind ...

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ASTM A36 Structural Angle Steel For Construction, Tower, Frames

A36 steel angle covers unequal and equal angle steel according to the depth of legs. Unequal angle steels or L-shaped steels as well as equal angle steels are necessary components for building ...

May 09, 2026

Galvanized Steel Telecommunication Tower and Product Self ...

The design of communication angle steel towers has a high degree of flexibility and can be customized according to different communication needs and geographical environments.

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45m 3-Legged Angle Steel Tower Design | PDF

This document provides details for a 45m 3-legged angle steel tower to support 3 microwave antennas. It includes a diagram of the tower showing the 3 antennas mounted at the top with ladders and safety ...

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Angle Iron Specs: Complete Guide to Steel Angle Dimensions, Sizes ...

Whether you're building a metal frame, reinforcing a structure, or designing custom supports, knowing the correct angle iron specs can make or break your project. In this guide, we'll ...

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4 Leg Angle Steel Lattice 20m 80 Meter 4G Telecommunication Towers

Customizable Design: We cater to individual client requirements, offering a range of options including color (white, red, or silver), length (30-60m or as per client's requirements), and thickness of ...

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