

Classification Table of Communication Tower Types and Heights



Summary of Content

Communication towers are classified by structural type and risk category, with heights ranging from 15 meters for monopoles to over 80 meters for guyed towers.

Classification of Communication Towers

Structural Types:

- Lattice/Self-Supporting Towers – Triangular or square steel frameworks that are robust and capable of supporting heavy antennas. Suitable for mobile networks and broadcasting, they are often used in both urban and rural areas due to their stability and load-bearing capacity .
- Monopole Towers – Single tubular steel or concrete structures with a compact footprint, ideal for urban areas where space is limited. They are generally shorter than lattice towers but efficiently support multiple antennas .
- Guyed Towers – Tall, slender structures stabilized by tensioned cables anchored to the ground. They are cost-effective for achieving significant heights but require large surrounding land areas, making them more suitable for rural or remote locations .
- Stealth Towers – Designed to blend into the environment, often disguised as trees, flagpoles, or architectural elements, commonly used in areas with strict zoning or aesthetic requirements .
- Small Cell/CRAN/Mini-Macro Structures – Compact towers mounted on existing infrastructure like streetlights or rooftops, supporting 5G networks in dense urban areas .

Article Content

Radio masts and towers

KVLY-TV mast Radio masts and towers are typically tall structures designed to support antennas for telecommunications and

What Are the Types of Towers? Factory

A steel tower is a tall structure made of steel, typically used for communication or observation

Classification of Tower Structures per ANSI/TIA-222-G, IBC and ASCE 7

Structure Class III: Structures that due to height, use or location represent a substantial hazard to human life and/ or damage to

Communication Tower Technology & Infrastructure: Types

Explore communication tower technology & infrastructure. Learn about tower types, structural components, and key

Classification of Tower Structures per ANSI/TIA-222

Application of ANSI/TIA-222-G structure classes to communication tower design and analysis is frequently

Structural Types of Towers and Their Impacts

Conclusion Tower structures profoundly influence antenna performance through mechanical stability,

The Different Types of Towers in Telecom

Telecom towers are essential structures used to support antennas and other equipment for telecommunications

classifications of communication tower, signal transmission tower

classifications of communication tower. The communication tower adopts a self-standing high-rise structure, which can

Classification of Tower Structures

Classification of Tower Structures Application of ANSI/TIA-222-G structure classes to communication tower

Classification of Tower Structures per

Correct application of structure classification to communication tower design and analysis must be undertaken with the

Comparing Different Types of Communication Towers

Explore the diversity of communication towers essential for telecommunication systems in our article. Learn about

[A Field Guide To The North American Communications Tower](#)

AM radio and other low-frequency towers fall into this category. In this article, I'm going to focus on a particular species

[Types of-tower | PDF](#)

The tower height is determined by the minimum ground clearance, maximum conductor sag, vertical conductor spacing, and

[Types and Design of Transmission Towers | PDF | Power \(Physics](#)

[Electrical Transmission Tower types and design | Electrical Engineering.pdf](#) - Free download as PDF File (.pdf), Text File (.txt) or

[Types of Cell Towers](#)

Learn about the different types of cell towers with pictures and descriptions of guyed towers, lattice towers, monopole

[Understanding Telecommunication Towers](#)

Telecommunication towers come in various types, including lattice towers, monopole

[Tower Design Checklist](#)

Structure type: (Monopole, Guyed Tower, Self Supporting Tower) For guyed towers provide the percentage of guy radius – typical

[Types of Telecom Towers | Lattice, Monopole & Rooftop Towers](#)

Learn about the main types of telecom towers, including lattice, monopole, guyed, rooftop, and camouflaged towers used in modern

[Complete Guide to Communication Tower Types and Applications](#)

Communication tower types and their applications form the backbone of modern connectivity. This comprehensive

[Communication Tower Types Explained: Structure, Height and Usage](#)

Communication towers are categorized into types based on their structure, height, and intended usage. These include

[Types of Telecom Towers Explained | PDF | Telecommunications](#)

Lattice towers are freestanding structures with steel lattices in a rectangular or triangular base that allow for modifications. Guyed

[How Tall Are Communication Towers? – Essential Facts](#)

This table provides a summary of the average heights of different types of communication towers. Factors Affecting

Types of Cell Phone Towers with 5 examples for mobile communication ...

Summary Understanding the 5 different types of cell phone towers, including monopole, lattice, guyed, stealth, and small cell towers,

Cellular Tower Classification

There are three structural classifications in the standard; Class I, Class II, and Class III structures. Each classification brings with it

Classification of Tower Structures

Risk categorization established within ASCE 7 and IBC are historically related to building occupancy among other factors has

Types of Telecom Towers & Their Key Applications

Telecommunication towers serve as the backbone of modern communication networks, enabling the seamless transmission of voice,

Types of Telecom Towers | Lattice, Monopole & Rooftop Towers

The main types of telecom towers include lattice towers, monopole towers, guyed towers, rooftop towers, and camouflaged telecom

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