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Tower Guy Wire
Tension Guide

Tower Guy Wire Tension Guide

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Tower Guy Wire Tension Guide

The recommended initial tension in guy wires is 10% of their ultimate tensile strength. There are two different grades of steel used for good guy

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line (clothes line does not count), HS (high strength) and EHS (extra high strength). The Rohn manual gives the following info on 3/16 and 1/4 in cable. Size & Grade.

Tower Guy Wire Tension Guide - gorum.ca

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GUYED TOWER INSTALLATION TIPS - K7NV

Tensioning of guyed

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towers is the most vital step to ensure the stability of a fully or partially guyed tower. Tensioning of guys defines the length of time for which a guy will be able to support a mast or a tower. Tensioning is the maximum amount of stress or pull a guy can absorb without giving way.

Tensioning of Guyed Towers - Telecom
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Tower Manufacturer

The installed tension for guy wire is typically 10% of the wire's breaking strength. Initial tension may be measured by vibration frequency, mechanical tensionmeters, measurement of guy sag, or by other suitable methods. Direct and indirect are the two common methods of measuring guy tension on towers. The direct method uses

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mechanical or hydraulic equipment to pull the guy wire to measure the tension with a calibrated gauge.

Towers/Installation - Guy Wire/Grips

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[DOC] Tower Guy Wire Tension Guide

A simple guide to electronic components.

- Duration: 38:06. ... A tower guy wire is anchored by a bolt at

A. Determine

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components of the force and angles. -
Duration: 8:47.

Tower Wire Formulas

Therefore their tension must respect the manufacturer's tower specifications. Loose guy wires are useless but guy wires tightened as strong as a piano string, enduring pulling forces exceeding 500 kg (1000 lbs.) will create too much lateral

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forces, creating an additional torque onto the base; by high winds this is on the contrary the best solution to see your bolts and nuts flying away and your tower topple !

Assembling your antenna system - Astrosurf

Guy wires Also known as guyed wire, guy cable, guy strand, guy anchors, or even

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mistakenly called "guide wire," this Extra High Strength (EHS) cable is available in two configurations: 1x7 (sizes range from 1/4" up to 5/8" in diameter), and 1x19 (sizes ranging from 11/16" to 7/8").

Guy Wire - Galvanized Strand EHS - Guide Wire

A guy-wire, guy-line, or guy-rope, also known as simply a guy, is a

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tensioned cable designed to add stability to a free-standing structure. They are used commonly in ship masts, radio masts, wind turbines, utility poles, fire service extension ladders used in church raises and tents. A thin vertical mast supported by guy wires is called a guyed mast. Structures that support antennas are frequently of a lattice

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construction and are called "towers". One end of the guy is attached to the structure,

Guy-wire - Wikipedia

If possible, guy wires should be installed such that the angle formed between the guy and the pole is 45 degrees or more. (45 degrees occurs when the height of guy attachment is equal to the length of the guy

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lead [the distance from the pole to the anchor rod], i.e., a 1 to 1 ratio.) Bulletin 1724E-153. Page 12.

RUS Bulletin 1724E-153 - USDA Rural Development

Ideally, the guy wires should extend out from the mast at a 45° angle, and should be anchored in screw eyes placed 120° apart (Figure 2). (If four guy wires are used, they

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should be anchored in screw eyes 90° apart.) Be sure each screw eye is firmly anchored in solid wood at least five feet from the base of the mast.

Selecting & Installing Guy Wires (CM9081) - Support

...

21. www.fullertonengineering.com Guyed Tower - Connections Recap Per guy level , The guy pull off will

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have one guy wire to each of the three anchor. The Torque stabilizer will have two guy wires that go to two of the three guys anchors pulling from the face vs the leg.

Part 3 Guy Tower Structure - LinkedIn SlideShare

Tower Guy Wire Tension Guide. The recommended initial tension in guy wires is 10% of their ultimate

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tensile strength. There are two different grades of steel used for good guy line (clothes line does not count), HS (high strength) and EHS (extra high strength). The Rohn manual gives the following info on 3/16 and 1/4 in cable.

ROHN Tower Guy & Anchor | 3 Star Inc

The tower shall be vertically plumb to within 0.25% of a

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vertical span and finally, the guy tensions shall be set within 10% of the engineer's design initial tension. [Note: Tension \pm 5% for guys greater than 1" diameter per ANSI/TIA 222 section 13.3.2].

PLANNING ADVISORY NOTICE Twist, Plumb and Tension for ...

>to be further from the base of the tower, such

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that the wires will run
>at 47 degrees to the
tower. I'm obviously
hoping that this will not
>adversely affect the
strength of the rigging.
A good resource for
this kind of information
is the TowerTalk list.
There was a short
discussion a few weeks
ago about guy angles
on sloping

**Tower Guy Wires
Question - Google
Groups**

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The name guy wire is derived from the term guy: defined as a rope, cord or cable used to steady, guide or secure something. Galvanized Guy Strand 1×7 and 1×19. Guy Wire Description. Guy wire is a tensioned cable that is both lightweight and strong.

Why is it Called Guy Wire? - US Cargo Control

The tower immediately

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bent in response to the removal of the tension in the lowest guy wires. Tension gauge readings indicated that the remaining guy wires were either over-tensioned or tensioned unevenly. The workers adjusted the wires so that the tower was not bent.

**Tower Technician
Killed When Guyed
Tower Collapsed
(Case ...**

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Rohn specifies that guys should be tensioned to 10% of the breaking strength of the guy size that is recommended for a particular tower. One rule of thumb is 8% if the guy is out at 100% of tower height, 10% if at 80% of tower height (standard Rohn drawings) and up to 15% if the anchor point is at 65% of tower height.

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on how to get the
correct length of guy
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A Guide to Tarp and
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