

# PRODUCT CATALOG No. 2



broadcast | wireless | sports lighting | utility | wind | transportation

### ··Thank·you for·your interest in ROHN Products······

For over sixty years the ROHN name has been a leader in the telecommunications industry. The company has used our expertise in structural design and fabrication to expand into additional markets. ROHN is proud to service the major utility and wind energy companies in North America. These markets are just two of the latest to join telecom, sports lighting, broadband, broadcast and the others that have been using ROHN Products to support their infrastructure projects for six decades.

This year we are proud to offer the latest version of the ROHN Products Catalog (No. 2). There have been some major changes to the layout. Some of the changes to Catalog No. 2 are listed below.

- ROHN's Utility Structure business continues to grow. We have added pre-engineered utility structures to Catalog No. 2 on pages 227-234.
- The ROHN model 45G guyed tower now includes the ROHN 45GSR (solid legs and braces).
- The ROHN model 65G guyed tower is now available with Rev G standard designs.
- Camera towers are now available in knocked down and all welded sections, starting on page 172.
- ROHN steel tubing can be purchased for special projects, see page 301.

If you have any questions, comments or suggestions regarding this catalog or any ROHN products, we are just a phone call away. On the adjacent page we have listed contacts that can assist you with any questions.

ROHN is committed to providing you the best products in the industry. Our towers are standing on every continent and in nearly every country around the world. That is because we are recognized around the globe as the quality leader in structures. We strive to continue that tradition this year and in the years to come.

We appreciate your interest in our products and we appreciate your business.

## -The ROHN Team-











The Industry Standard Since 1948

The information contained in this catalog is intended to assist customers in selecting the appropriate ROHN product for specific applications. The information, drawings, etc. are not intended to be substituted for assembly drawings provided with a ROHN product. Dimensions and weights provided in this catalog are nominal. Refer to our website www.rohnnet.com for additional information and products.

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THE COMPANY

## HISTORY



Founded in 1948, in Peoria, Illinois by Dwight Rohn, the ROHN product quickly became the industry standard for towers. The need for ROHN structures grew out of the television industry and a need for homeowners to have small towers adjacent to their homes to enable signal reception. The demand grew quickly and the company's knowledge and capacity were forced to grow with it. Soon television reception towers grew into radio towers, microwave towers, lighting structures and more. When the cellular technology exploded in the U.S., ROHN was there to provide the towers to support the rapid growth. This growth was not just in markets but in geographies.



By 1980, ROHN had structures standing on every continent and in nearly every country on the globe. We continue to supply towers and poles to all of the communication giants and regional carriers. We support utilities and transportation in all of North America. We have wind turbine towers and meteorological towers across the globe. For over 60 years, our products have endured and our name continues to be recognized around the world as the industry standard.







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ROHN SOLUTIONS

## **BROADCAST SOLUTIONS**



When Americans turned on their first television sets, ROHN was there to improve fuzzy reception with our home antenna tower. During the 40's and 50's, a ROHN TV tower installed on a rooftop or in a backyard meant that family's TV reception was the best on the block, even if the picture was only black and white and the screen just 12 inches wide.

ROHN's business serves the broadcast side of TV as well. With the advent of digital TV and compliance with FCC standards, broadcasters are choosing to remain competitive by expanding their services into more areas. To do so, they look to ROHN to deliver "Tall Towers", super structures rising as high as 2,000 feet, to broadcast TV signals to millions of viewers in a much wider geographic area.

ROHN towers are some of the tallest structures in the world, and we build each tower in accordance with our exacting standards for quality, performance and structural integrity. Our tall towers are helping change the way the world receives and views television signals. This innovation is nothing new for ROHN. Back in 1948 when we started our business, we were on the forefront of the television age. Today, we stand ready to serve the next wave of television broadcasting.







## **ROHN SOLUTIONS**

## WIRELESS SOLUTIONS



ROHN has been supplying towers to the wireless industry since the industry was born. Whether the application is microwave, cellular, PCS or broadband, we have the towers in service supporting wireless communications.

When the first microwave towers were constructed in the United States, ROHN was the quality supplier of choice. We designed and fabricated to the most stringent standards for wind, ice and dish twist and sway requirements.

As the communication system progressed to cellular, then PCS, ROHN was again leading the market with our ROHN SSV towers serving as the industry preference for wireless sites.

ROHN continues to support wireless communication from microwave to broadband communications. Our structures are still the leaders in the industry.

ROHN also offers a variety of steel poles to meet your specific communication needs. Our tapered and flanged steel poles feature designs that are aesthetically pleasing and blend well into the environment while requiring minimum space for installation. All of our steel poles are hot-dip galvanized after fabrication to ensure years of corrosion free use. As one of the largest manufacturers of communication structures, with unmatched attention to detail and design, our steel poles provide an extremely efficient design. ROHN's steel poles meet the stringent demands of today's communication environment.







-ROHN SOLUTIONS -

## SPORTS LIGHTING SOLUTIONS



Whatever your application - from little league baseball to a major league sports stadium, ROHN has a steel pole to do the job. Poles are available with the traditional anchor base or for direct embedment. ROHN's engineering staff will select the proper pole based on your specific requirements, considering wind speed, luminaire size, weight and quantity.

For decades, ROHN has supplied sports lighting structures. ROHN towers support lights for the Anaheim Angels professional baseball team, the University of Illinois football team and the Peoria Chiefs, the local minor league baseball team near our plant location in Peoria, IL.

All poles and towers are hot-dip galvanized and our direct embed poles can be purchased with an extra subsurface corrosion resistant coating.







## ROHN SOLUTIONS

## TRANSPORTATION SOLUTIONS



ROHN has been a trusted name in quality-engineered structures since 1948. We have the people, equipment and experience to provide the materials you need for your transportation structure projects. ROHN Mast Arms, Monotube Assemblies, Steel Strain Poles and Sign Structures are designed and manufactured to AASHTO standards. Our products can be supplied galvanized, painted over galvanizing or factory finished powder coated. We are dedicated to delivering quality products, on time at a competitive price; whether it is a single pole or multiple pole project.

ROHN has over 300,000 square feet of manufacturing located in Peoria, Illinois. ROHN's manufacturing is certified by both the American Institute of Steel Construction (Dual AISC Certified Steel Fabricator - Buildings and Simple Steel Bridges) and the Canadian Welding Bureau.

ROHN uses specialized engineering software coupled with ROHN developed software for the design of tubular structures and foundations. This allows ROHN to optimize pole designs based on customer requirements, manufacturing efficiencies and material availability. Preliminary calculation packages are sent to our customers for review with bid packages.







ROHN SOLUTIONS

## UTILITY SOLUTIONS





ROHN can optimize pole designs based on customer requirements, manufacturing efficiencies and material availability. Preliminary calculation packages are sent to our customers for review and approval prior to manufacturing. Fabrication and erection drawings are produced in AutoCAD and accompany the structures we produce. Our commitment to the utility industry is to provide the highest quality products with the shortest lead time.

ROHN uses Power Line Systems software coupled with ROHN developed software for the design of tubular structures and foundations. This allows us to optimize the pole designs based on customer requirements.

ROHN's state of the art equipment and facility allows us to fabricate the most difficult projects with the accuracy and reliability that you deserve. After the pole shafts have been formed on our press brake, they pass through ROHN's custom built seam welder. The shafts are then completed in one of our numerous fit-up and weld-out stations. Automation also plays a key role in the manufacturing process for latticed towers with our CNC plate processors, machining center, anglematics and beam lines that can process angle up to 8" x 8" x 1 1/4".

ROHN's Quality Assurance/Quality Control program begins when the material is received at our plant, ensuring that all material meets the designated specifications. Components are inspected and verified throughout the manufacturing process to ensure that they are within the engineering and manufacturing tolerances. All full penetration base plate and seam welds are verified with Ultrasonic Testing performed in-house by our own certified inspectors.

Because of ROHN's commitment to customer service, the Inside Sales Manager assigned to your project will work closely with you to assure your order is designed and built to the highest standards and delivered just as you ordered it. We understand the importance of on-time delivery and constantly strive to exceed your expectations. Our plant is centrally located in Peoria, Illinois, which allows for competitive freight costs.



## WIND ENERGY SOLUTIONS



ROHN has extensive experience in manufacturing meteorological and turbine support structures for wind energy applications. Whatever the requirement, poles, towers or guyed masts, we have used our products to support this industry.

Our structures are used to support wind turbines ranging up to 50 kW. ROHN structures are hot-dip galvanized where the components are totally immersed in molten zinc, inside and out, to ensure years of corrosion protection. Our steel pole designs are aesthetically pleasing, while requiring minimum space for installation.

To ensure that ROHN meets the demand of today's wind energy customer, our steel poles offer extremely efficient designs and unmatched attention to detail. For over 60 years, ROHN has manufactured support structures with great care and design excellence.







## UNDERSTANDING TIA-222 - REVISION G



**ROHN SOLUTIONS** 

## UNDERSTANDING TIA-222 - REVISION G

### What is Rev G?

Rev G is the latest revision of the TIA-222 Standard "Structural Standards for Antenna Supporting Structures and Antennas". The previous version of the Standard was Rev F. Rev G is based on a 3-second gust wind speed and Rev F is based on a fastestmile wind speed. The wind speeds are not directly comparable and it is very important to define the basis of a wind speed when specifying wind loading requirements. For a given location, the 3-second gust wind speed represents the peak gust wind speed whereas the fastest-mile wind speed represents the average wind speed over the time required for one mile of wind to pass the site.

Rev G presents additional factors to be considered in the design of new structures and for the modification of existing structures. These factors are briefly discussed below. The reliability requirements of a structure can now be accounted for by assigning a classification to a structure (Class I, II or III). The wind speed can also be adjusted based on the type of terrain surrounding the site (Exposure B, C or D) and if the site is located on a hill, ridge or escarpment (Topographic Category 1-5).

Many tower profiles in this catalog now include antenna loading capacities for both Exposure B and Exposure C terrain conditions located on relatively flat sites (Topographic Category 1). Antenna loading capacities in accordance with Rev F are also provided for many tower profiles in the catalog. Please refer to the design notes in the catalog for each tower model series for further explanations. The Class of structure is stated in the design notes. Conditions other than stated may require a different tower profile than illustrated in this catalog. Quotes may be obtained for a specific application by contacting your ROHN representative.

### **Classification of Structures**

Allows for the adjustment of wind, ice and earthquake loading to match the reliability requirements for a specific application. Three reliability classes have been established based on the type of service provided and on the structure's potential hazard to human life and property. Wind, ice and earthquake loading progressively increase from Class I to Class III structures.

*Class I:* Structures used for services where a delay in returning the service would be acceptable and the structure represents a low hazard to human life and/or property. Example services would be: residential wireless and conventional 2-way radio communications; television, radio and scanner reception; wireless cable, amateur and CB radio communications. Structures of this classification are exempt from ice and earthquake loading.

*Class II:* Structures used for services that may be provided by other means or structures that represent a significant hazard to human life and/or property. Example services would be: commercial wireless communications; television and radio broadcasting; cellular, PCS, CATV and microwave communications.

*Class III:* Structures specifically designed for essential communications or structures that represent a substantial hazard to human life and/or property. Examples of essential communications would be: civil or national defense; emergency, rescue or disaster operations; military and navigational facilities.

### What is EPA?

EPA stands for Effective Projected Area. It is a standard way to define the "size" of an antenna regarding wind loading. Many antenna manufacturers provide data sheets that specify the EPA of their antennas. The TIA standard also defines a method to calculate the EPA of an antenna based on the size and type of the antenna components.

Generally, the EPA of an antenna, mount or accessory is equal to the summation of the projected areas of its components times appropriate drag factors defined in the TIA Standard. The EPA values listed in this catalog for standard tower designs represents the maximum EPA that may be supported unless otherwise indicated.



## UNDERSTANDING TIA-222 - REVISION G

### What is Exposure?

Exposure categories are used to adjust wind loading based on the type of terrain surrounding a site. Reduced wind loads are associated with rougher terrains that tend to slow the wind down. Three exposure categories have been defined based on terrain roughness. Wind loading is increased as the exposure designation changes from Exposure B (roughest terrain) to Exposure D (smoothest terrain).

**Exposure B:** Urban, suburban or wooded areas. The wind load at ground level is reduced compared to Exposure C. This reduction diminishes with height, making the overall wind reduction less significant for taller structures. In order to qualify for the wind load reduction, the rough terrain must extend in all directions from the site at least twenty times the height of the structure, but not less than one-half mile.

*Exposure C:* Flat, open country and grasslands.

**Exposure D:** Flat, unobstructed shorelines exposed to wind flowing over open water, smooth mud flats, salt flats and other similar terrain. The wind load at ground level is increased compared to Exposure C.

### **Topographic Categories**

Topographic categories are used to determine increases in wind loading for sites located on hills and other elevated locations (other than buildings). The shape and relative height (topography) of an elevated site determines the increase in wind load. Although many elevated sites have their own unique features, the intent is to idealize these sites into one of the standard topography categories described below.

The height of an elevated site above the surrounding terrain must be specified in order to determine the increase in wind loading. Height should not be confused with the elevation of the site. As described below, elevations of the site and the surrounding terrain must be used to determine the relative height of a site. For structures supported on buildings, it is only necessary to specify the height of the building and the surrounding exposure category.

*Category 1:* Flat or rolling terrain with no abrupt changes in general topography. No increase in wind loading is required for this category.

**Category 2:** Sites separated from a lower elevation by a gently sloping terrain (escarpment). Wind loads at the crest are 2.0 times the wind loads for a flat site and diminish with height depending on the height of the escarpment.

Height for an escarpment is the difference in elevation between the upper and lower levels. Increased wind loads do not apply for structures located in the lower half of the sloping terrain or located beyond 16 times the escarpment's height from the crest.

*Category 3:* Sites located at the top or within the upper half of a hill. Wind loads at the top of a hill are 2.3 times the wind loads for a flat site and diminish with height depending on the relative height of the hill.

Height for a hill is the difference in elevation between the top and bottom of the hill. For sites surrounded by other hills, height is the difference in the hill elevation at the site and the average elevation of the surrounding hills (within a 2-mile radius). In other words, height is the projection of the hill exposed to wind. When there are other hills surrounding the site, increased wind loads do not apply unless the height of the hill at the tower site is at least 2 times the average height of the surrounding hills. (Refer to sketch above.)

Topographic Categories continued on next page.



## ROHN SOLUTIONS.

## UNDERSTANDING TIA-222 - REVISION G



### H = 2,150' - 1,550' = 600'

Wind speed-up must be considered when H exceeds 2 times the average height of surrounding features.

*Category 4:* Sites located on a ridge. Wind loads at the top of a ridge are 3 times the wind loads for a flat site and diminish with height depending on the height of the ridge.

Height for a ridge is the difference between the top and bottom elevations of the ridge.

**Category 5:** This category is reserved for sites where site-specific investigations are performed to determine wind loading. A site-specific investigation may result in either higher or lower wind loads compared to using one of the standard topographic categories.



ROHN SOLUTIONS -



## **REV G 3-SECOND BASIC WIND SPEED MAP**

### Notes:

- 1. Values are 3-second gust wind speeds in miles per hour (m/s) at 33 ft. (10 m) above ground for Exposure C terrain.
- 2. Linear interpolation between wind contours is permitted.
- 3. Islands and coastal areas outside last contour must use the last wind speed contour of the coastal area.
- 4. Mountainous terrain, gorges, ocean promontories, and special wind regions must be examined for unusual wind conditions.

The basic wind speed map is being used with permission from ASCE. This material may be used for personal use only. Any other use requires prior permission of the American Society of Civil Engineers.



**ROHN SOLUTIONS** 

## **REV G WIND SPEEDS**

The TIA-222-G Standard is based on the wind map published in the ASCE 7-02 Standard, "Minimum Design Loads for Buildings and Other Standards". The ASCE 7 standard is published by the American Society of Civil Engineers (ASCE) and represents the latest research and data available for wind speeds in the United States.

Subsequent to the release of the TIA-222-G Standard, ASCE has published 2 revisions to the ASCE-7 Standard. The first revision was published in 2005 and is designated as ASCE 7-05. There were no changes to the wind map. The second revision was published in 2010 and is designated as ASCE 7-10. There are changes to the wind map in this version.

The previous versions of ASCE 7 used a 50-year return wind speed map and relied on additional design factors to increase wind loads according to the reliability requirements of a structure. This resulted in structures being able to survive wind speeds of much higher return periods. The new wind maps in ASCE 7 -10 now include these design factors and now represent a much higher return period wind speed. A wind map is provided for each classification of structure. No additional factors have to be considered based on the classification of a structure when these wind speeds are used to calculate wind loads. The new maps can be thought of as "Survival" wind speeds, or in other words, wind speeds for which permanent deformation may occur in a structure, but the structure does not collapse.

The new ASCE 7-10 survival wind speeds can be easily converted for use with the TIA-222-G Standard using the following conversion table. If the conversion is not made, the design factors for determining wind loads will be "doubled up" resulting in much higher wind loads than intended. Eventually the TIA Standard and other similar structural standards will be upgraded to reflect the new ASCE 7-10 wind maps. Conversions for fastest-mile wind speeds used in Rev F and ASCE 7-93 are also included in the table.

Rev F ASCE 7-93 (fastest-mile)	Rev G ASCE 7-02 & ASCE 7-05 (3-second gust)	Survival ASCE 7-10 (3-second gust)
71	85	110
76	90	115
85	100	126
90	105	133
95	110	139
104	120	152
114	130	164
123	140	177
128	145	183
133	150	190
152	170	215

### **Design Wind Speed Conversions, MPH**

Examples to determine appropriate Rev G design criteria:

1. Desire a 95 mph Rev F fastest-mile design. Use a 110 mph Rev G design.

2. Desire a 115 mph ASCE 7-10 design. Use a 90 mph Rev G design.



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## REV G GROUNDING REQUIREMENT FOR STRUCTURES

Rev G made significant changes regarding the grounding requirements for structures. A prescriptive approach to grounding was used in Rev F where providing specific grounding leads and ground rods were considered adequate to protect a structure. Rev G adopted a performance specification approach that requires providing a grounding system that will result in a maximum 10 ohm resistance to earth. Rev G also requires minimum ground lead and ground rod sizes that are greater than the Rev F prescriptive requirements.

Another change is that Rev G does not require specific grounding materials. Rev F required the use of galvanized ground rods with tinned copper leads. Rev G only requires that the leads and connections be compatible with the ground rods from a corrosion standpoint (i.e. minimize difference between metals connected).

Rev G does provide default grounding arrangements for various types of structures that are intended to meet the 10 ohm requirement for a wide variety of soil conditions. In accordance with Rev G, the actual resistance of a default grounding system must be verified based on site conditions. Additional ground rods or special grounding systems may be required.

It should be noted that the TIA-222 grounding requirements are meant to protect the structure and foundation from high fault currents. Other grounding requirements are often needed for the protection of antennas, radio equipment and other appurtenances.

## **REV G STANDARD FOUNDATIONS**

Rev G has taken a different approach from Rev F regarding standard foundations and the term "Normal Soil" has been eliminated. A new term "Presumptive Soil" has been introduced. Rev G provides for two different types of presumptive soil, sand and clay. Generally the strength of Rev G presumptive soil is lower than the strength of Rev F normal soil.

The intent is to provide default design parameters that can be used to design foundations when a geotechnical report is not available for a site. In accordance with Rev G, clay is to be considered the default presumptive soil unless more information is known about a site. The values for clay presumptive soil have therefore been used for the generation of the standard foundations contained in this catalog.

It should be noted that in accordance with Rev G, actual site conditions must be investigated prior to the installation of a foundation that was designed using presumptive soil parameters. Modifications to the standard foundations contained in this catalog may be required. It should also be noted that Rev G requires a geotechnical investigation for all Class III structures.

One common cause for changes to a standard foundation is due to frost depth. The frost depth for Rev G presumptive soil is considered to be 3.5 feet. The standard foundations in this catalog are based on this frost depth. Special foundations may be required for sites in locations where frost depths exceed 3.5 feet and the local soil conditions are susceptible to frost heave.

Presumptive soil also assumes that the water table is below the foundation depth. For this condition, there is no concern for buoyant conditions that can significantly reduce the uplift capacity of a foundation. The standard foundations in this catalog are based on dry soil conditions and do not consider buoyant conditions. Special foundations may be required for sites where the water table may rise above the base elevation of the foundation.

In accordance with Rev G, presumptive soils are also considered to be non-corrosive. When local soil conditions are corrosive, anchors or direct embedded poles that are in direct soil contact may require corrosion protection in addition to hot dip galvanizing. Rev G provides guidance on various alternatives to consider in these situations.

Presumptive soils are also considered to be non-expansive. Locations known to have expansive soil require special considerations for foundation design. Modifications to the standard foundations in this catalog may be required in these cases.



## **REV G CLIMBING FACILITIES**

Rev G has made significant additions addressing climber safety. Two classifications of climbers have been defined. An Authorized Climber (also called a Basic Climber) is an individual trained in climbing but may not have had previous climbing experience. These climbers are intended to be limited to climbing fixed access routes equipped with safety climb devices. A Competent Climber (also called a Skilled Climber) is a professional who is capable of climbing on structural members.

Rev G provides requirements for climbing facilities by defining two classes of climbing facilities, Class A and Class B. Class B requirements are similar to Rev F requirements and are intended for structures to be climbed by professional Competent Climbers. Class A requirements are more restrictive in comparison to Rev F and are intended for structures expected to be climbed by lesser qualified (Basic) climbers. In accordance with Rev G, Class B is considered to be the default climbing facility requirement for structures unless otherwise specified. Towers can be quoted to accomodate Class A climbing facilities when specified. All ROHN standard structures are intended to be climbed by Competent Climbers only.

Safety climb systems are now mandatory in accordance with Rev G for structures exceeding 10 feet in height that are intended to be climbed. Some structures are intended to be maintained by bucket trucks or other methods that do not involve climbing the structure. Safety climb systems, when required, must be ordered separately for all ROHN standard structures in this catalog.



# GUYED TOWERS



ROHN began manufacturing the G-Series line of towers in the early 1950's. Starting with the ROHN No. 5 tower, there was an ever present drive for a superior tower design. The No. 5 soon led to the ROHN No. 6 and continued through the No.10, 11, 20, 25, 30, 40 and 50 towers. ROHN originally coated the lightweight towers with a hot-dipped enamel coating called RohnKote. The alternative to RohnKote was hot-dipped galvanizing. The galvanized option was identified by the now famous "G" suffix added to the tower model. The G-Series was born! The numbers have settled to the four models listed below and hot-dip galvanizing is the coating of choice for towers today.

ROHN's G-Series towers are designed for strength and versatility. The towers are constructed with high strength steel tubing or solid round legs. ROHN's exclusive Zig-Zag solid-rod bracing provides exceptional strength. As they were in the 1950's, each ROHN G-Series tower continues to be hot-dip galvanized for corrosion protection.

# 25G | 45G | 55G | 65G

The 25G is a light weight tubular tower with solid braces. The tower sections are most often guyed, but can also be used in bracketed and self-supporting applications. Standard sections are 10' in length, but are also available in a 7' length, which is UPS shippable. This tower model has several top options, as well as a variety of tower accessories. The 25G has several base options, including: base cast in concrete, base plate with anchor bolts and also a hinged base.

### **Standard Design Tower Heights**

Guyed: Up to 190' Bracketed: Up to 100' Self-Supporting: Up to 40'





## 25G | **45G** | 55G | 65G

The 45G is a light weight tower, available with tubular or solid round legs with solid braces. The tower sections are most often guyed, but can also be used in bracketed and self-supporting applications. Standard sections are 10' in length, but are also available in a 20' length when ordering solid sections. This tower model has several top options, as well as a variety of tower accessories. The 45G has several base options, including: base cast in concrete, base plate with anchor bolts and also a hinged base. This tower is a true multi-use structure.

### **Standard Design Tower Heights**

Guyed: Up to 300' [45G] and 350' [45GSR] Bracketed: Up to 100' Self-Supporting: Up to 45'



## 25G | 45G | <mark>55G</mark> | 65G

The 55G is a tubular tower with solid braces that lends itself to a wide variety of uses, particularly where unusual wind loading and height requirements exist. The 55G was designed to provide excellent strength and rigidity. The tower sections are most often guyed, but can also be used in bracketed and self-supporting applications. Standard sections are 10' in length. This tower model has several top options, as well as a variety of tower accessories. The 55G is available with a base cast in concrete as well as a tapered base option.

### **Standard Design Tower Heights**

Guyed: Up to 400' Bracketed: Up to 100' Self-Supporting: Up to 60'



# 25G | 45G | 55G | 6<mark>5</mark>G

The 65G is available with tubular or solid round legs with solid braces. The tower sections are most often guyed, but can also be used in self-supporting applications. Standard sections are 10' and 20' in length. This tower model has a variety of tower accessories, and is available with a base cast in concrete or a tapered base.

### **Standard Design Tower Heights**

Guyed: Up to 500' Self-Supporting: Up to 80'

The ROHN G-Series towers are assembled and installed quickly and are diverse enough for use by broadcasters, fire and police, military, ham and home use. The possibilities are endless with the G-Series towers. Over the long history of the G-Series, ROHN has developed a variety of options to improve the utility of each model. The G-Series has optional:

- Standard and Shortened Sections
- Guy Lug Sections
- Four Leg (Square) Design of 25G
- Double Braced Sections

- Double Braced Sections
- Torque Arms
- Roof Mounts
- Top Mounts

- House Brackets
- Base Options
- Side Arms



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## **STANDARD 25G GUYED TOWER**







### **GENERAL USE**

The 25G is available in the standard 10' section length and a 7' length which is UPS shippable. The 25G uses double bolted joints, proven to be the best method of joining tower sections for sturdiness and dependability. As a guyed structure, the 25G standard designs rise to a height of 190'.

### **FEATURES**

- Completely hot-dip galvanized after fabrication
- Built on an 11 1/4" equilateral triangle design
- High strength tubular legs joined by Zig-Zag<sup>®</sup> cross members
- Each 7' or 10' section contains all required nuts and bolts shipped with section
- Continuous solid round steel bracing

### CAUTION

Mixing copies of ROHN towers with ROHN towers is dangerous and voids all engineering and warranty data supplied by ROHN. Materials used by others are not the same quality and have not been tested or engineered by ROHN. Mixing ROHN tower sections with non-ROHN products may cause tower failure or injury.

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 40 for ordering information.



## STANDARD 25G GUYED TOWER SECTIONS



\* Towers mounted on these bases must be bracketed or guyed at all times. Temporary steel guying may also be necessary during installation and dismantling.



)5

### **BUYERS GUIDE STANDARD DESIGNS - 25G** 90MPH REV. G [3-SECOND GUST] 70MPH REV. F [FASTEST MILE] **Design Criteria** EPA (SQ. FT.) For Exposure B, Revision G 16.6 22.6 35 EPA (SQ. FT.) For Exposure C, Revision G 22.0 47 3/16" EHS (399#) EPA (SQ. FT.), Revision F **Guy Initial Tension** - P/N 25G90R040 Tower Model Tower Height (ft.) Windspeed (Rev.G) **ROHN** Tower P/N 25G90R040

This document is to serve as a guide for sizing and purchasing the 25G tower. Tower and foundation installations should be performed by qualified and experienced personnel using assembly drawings provided with each tower.

**EPA= Effective Projected Area** 

### **DESIGN NOTES:**

- 1. Tower designs are in accordance with ANSI/TIA-222-F and ANSI/TIA-222-G, Class I Structures, Topographic Category 1.
- 2. Design assumes towers are installed on level ground. Lower EPA values will apply for roof mounted towers or for sites located on unusual terrain.
- 3. Designs assume two 1/2" diameter lines on each tower face.
- 4. Anchor radius is from tower base to intersection of anchor rod with ground.
- 5. Guy chord lengths shown are based on level ground. Initial tensions for guys are shown in ( ) in pounds at 60° Fahrenheit.
- 6. Antenna and mounts are assumed symmetrically placed at the tower top.

### PARTS LIST NOTES:

- 1. Items listed are required for complete guyed towers.
- 2. Base and anchor foundations listed refer to standard foundation designations.
- 3. Guys provided with each standard tower are based on level ground conditions with an additional 6% length.
- 4. Rev G anchor grounding (AGK1GGX) and base grounding (BGK3GGX) are included with the tower material.
- 5. Assembly drawings and a safety package (P/N: ACWS) are included with each tower.
- 6. Parts lists are subject to change based on availability or revised design criteria.

### FOR FOUNDATION INFORMATION, PLEASE SEE PAGES 41-44. FOR GENERAL INSTALLATION INFORMATION, PLEASE SEE PAGES 147-153.



**FDNS** 

FDNS

BASE ANCHOR

CB1G AB2

TBSAFETY

3

3/4x12PP

1

FDNS

BASE ANCHOR

CB1G AB2

## **STANDARD DESIGN - 25G** 90MPH REV. G, 70MPH REV. F



50'TOWER

60'

56

45

23

55

28

21.4 OR 15.8

21.0

3/16" EHS (399#)



25AG2

1

BG2142

BPC25G

1

5/16THH

GA25GD

2

1/2TBE&J

40' ROHN 25G

All parts shown in table are included when ordering Part No: 25G90R040

50' ROHN 25G
All parts shown in table
are included when ordering
Part No: 25G90R050

<sup>3</sup> 46'	INCLUDED	350'	12	12	6	
		GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	
P/N: 25G90R050	GROUNDING INCLUDED	3	1	3	3	
60'TOWER 20.3) OR 15.2	TOWER PARTS	25G	25AG2	BPC25G	GA25GD	╞
20.2 73'	INCLUDED	5	1	1	2	(

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

25G

4

3/16EHS

60' ROHN 25G All parts shown in table

are included when ordering Part No: 25G90R060

70' ROHN 25G

All parts shown in table

are included when ordering Part No: 25G90R070



P/N:25G90R060



TOWER PARTS	25G	25AG2	BPC25G	GA25GD	FDNS BASE ANCHOR
INCLUDED	6	1	1	2	CB1G AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY
INCLUDED	500'	12	12	6	3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP
GROUNDING INCLUDED	3	1	3	3	1

TOWER PARTS	25G	25AG2	BPC25G	GA25GD	FDNS BASE ANCHOR
INCLUDED	7	1	1	3	CB1G AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY
INCLUDED	800'	18	18	9	3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP
GROUNDING INCLUDED	3	1	3	3	1

80' ROHN 25G
All parts shown in table
are included when ordering
Part No: 25G90R080



3/16" EHS (399#)		GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	AFETY
		INCLUDED	425'	12	12	6		3
			GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x	12PP
<u>48</u> ′ 590R060		GROUNDING INCLUDED	3	1	3	3		1
OWER			25G	25402	BPC25G		FL	DNS
OR 14.7		TOWER PARTS	25G	25AG2	BPC23G	GA25GD	BASE	ANCHOR
19.4		INCLUDED	6	1	1	2	CB1G	AB2

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

## **STANDARD DESIGN - 25G** 90MPH REV. G, 70MPH REV. F



100'TOWER

124'

102'

86'

P/N:25G90R100

95

63

31

-(17.5) OR 13.6

(18.0)

-3/16" EHS (399#)

	25G	25AG2	BPC25G	GA25GD	<u> </u>		
TOWER PARTS INCLUDED	230	25402	DF 0230	072300	BASE	ANCHOR	
	8	1	1	3	CB1G	AB2	
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY	
INCLUDED	900'	18	18	9		3	
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	(12PP	
GROUNDING INCLUDED	3	1	3	3		1	

25AG2

1

BG2142

18

1

GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75

BPC25G

1

5/16THH

18

3

GA25GD

3

1/2TBE&J

9

3

90' ROHN 25G All parts shown in table are included when ordering Part No: 25G90R090

EDNIC

FDNS

BASE ANCHOR

CB1G AB2

TBSAFETY

3

3/4x12PP

1

FDNS

100' ROHN 25G
All parts shown in table
re included when erderin

are included when ordering Part No: 2590R100



120' TOWER

150

128'

1111

100

P/N: 25G90R120

115

85

55

28

-16.6 OR 13.1

17.2

3/16" EHS (399#)

96

Products LLC

			05400	DDOOFO	040500	FDNS	
TOWE	TOWER PARTS INCLUDED	25G	25AG2	BPC25G	GA25GD	BASE	ANCHOR
INC		10	1	1	3	CB1G	AB2
	JYS &	3/16EHS	BG2142	5/16THH	1/2TBE&J TBSA		AFETY
	CONNECTIONS INCLUDED	1100'	18	18	9		3
-	ANCHORS &		AGK1GGX	BGK3GGX	K CPC.5/.75 3/4x		(12PP
GROUNDING INCLUDED	3	1	3	3		1	

25G

9

3/16EHS

1000'

3

110' ROHN 25G

All parts shown in table are included when ordering Part No: 25G90R110

TOWER PARTS	25G	25AG2	BPC25G	GA25GD		ANCHOR	
INCLUDED	11	1	1	4	CB1G	AB2	1
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY	All are ir
INCLUDED	1575'	24	24	12		3	are ir P
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	x12PP	
INCLUDED	3	1	3	3		1	

	130' TOWER			
I r	← 16.2 OR 12.9			
125′	17.0			
	163'			
93′	3/16″ EHS			
62'				
	121'			
31'	108'			
	104'			
F	P/N: 25G90R130			

	25G	25402	BPC25G	GA25GD	F	DNS
TOWER PARTS	25G	25AG2	BPC25G	GAZSGD	BASE	ANCHOR
INCLUDED	12	1	1	4	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
INCLUDED	1700'	24	24	12		3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	12PP
GROUNDING INCLUDED	3	1	3	3		1

#### 120' ROHN 25G

l parts shown in table included when ordering Part No: 25G90R120

#### 130' ROHN 25G All parts shown in table are included when ordering Part No: 25G90R130

## GUYED TOWERS - 25G-

FDNS

BASE ANCHOR

CB1G AB2

TBSAFETY

3

3/4x12PP

1

## **STANDARD DESIGN - 25G** 90MPH REV. G, 70MPH REV. F



	25G	25AG2	BPC25G	GA25GD	F	DNS
TOWER PARTS	200	25462	DF 023G	GAZSGD	BASE	ANCHOR
INCLUDED	13	1	1	4	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	AFETY
INCLUDED	1825'	24	24	12		3
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x	12PP
INCLUDED	3	1	3	3		1

25AG2

1

BG2142

30

1

GAC3455TOP AGK1GGX

BPC25G

1

5/16THH

30

3

BGK3GGX CPC.5/.75

GA25GD

5

1/2TBE&J

15

3

25G

14

3/16EHS

2425'

3

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

Т

С

(

140' ROHN 25G All parts shown in table are included when ordering Part No: 25G90R140

150' ROHN 25G
All parts shown in table
are included when ordering
Part No: 25G90R150









250	25AG2	BPC25G	CA25CD	FI	FDNS	
250	ZSAGZ	BPC25G	GAZSGD	BASE	ANCHOR	
15	1	1	5	CB1G	AB2	
3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY	
2600'	30	30	15		3	
GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	(12PP	
3	1	3	3		1	
	3/16EHS 2600' GAC3455TOP	15 1   3/16EHS BG2142   2600' 30   GAC3455TOP AGK1GGX	15     1     1       3/16EHS     BG2142     5/16THH       2600'     30     30       GAC3455TOP     AGK1GGX     BGK3GGX	15     1     1     5       3/16EHS     BG2142     5/16THH     1/2TBE&J       2600'     30     30     15       GAC3455TOP     AGK1GGX     BGK3GGX     CPC.5/.75	25G     25AG2     BPC25G     GA25GD     BASE       15     1     1     5     CB1G       3/16EHS     BG2142     5/16THH     1/2TBE&J     TBS/       2600'     30     30     15     GAC3455TOP     AGK1GGX     BGK3GGX     CPC.5/.75     3/4/	

OWER PARTS	25G	25AG2	BPC25G	GA25GD	FDN BASE AN	
INCLUDED	16	1	1	5	CB1G	AB2
GUYS &	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAF	ETY
INCLUDED	2750'	30	30	15	3	
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x1	2PP
	3	1	3	3	1	

TOWER PARTS	25G	25AG2	BPC25G	GA25GD		DNS ANCHOR
INCLUDED	17	1	1	5	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
INCLUDED	2925'	30	30	15		3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP	
GROUNDING INCLUDED	3	1	3	3		1

160' ROHN 25G All parts shown in table are included when ordering Part No: 25G90R160

170' ROHN 25G All parts shown in table are included when ordering Part No: 25G90R170

**180' ROHN 25G** All parts shown in table are included when ordering Part No: 25G90R180



## **STANDARD DESIGN - 25G** 90MPH REV. G, 70MPH REV. F



	25G	25AG2	BPC25G	GA25GD		JNS
TOWER PARTS	200	20/102	DI 0200	0,12000	BASE	ANCHOR
INCLUDED	18	1	1	5	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
INCLUDED	3075'	30	30	15		3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	12PP
GROUNDING INCLUDED	3	1	3	3		1

**190' ROHN 25G** All parts shown in table are included when ordering Part No: 25G90R190



## **STANDARD DESIGN - 25G** 110MPH REV. G, 90MPH REV. F



50'TOWER 12.6 OR 9.1

46′

P/N: 25G110R050

(12.6) 60'

> 3/16" EHS (399#)

45'

22

	050	05400	DDOOLO	CAACOD	FD	NS
TOWER PARTS	25G	25AG2	BPC25G	GA25GD	BASE A	NCHOR
INCLUDED	3	1	1	1	CB1G	AB2
GUYS &	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	FETY
CONNECTIONS INCLUDED	175'	6	6	3	3	3
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x1	12PP
INCLUDED	3	1	3	3	1	

### 40' ROHN 25G

All parts shown in table are included when ordering Part No: 25G110R040

	250	05400	BPC25G		FI	DNS
TOWER PARTS	25G	25AG2	BPC25G	GA25GD	BASE	ANCHOR
INCLUDED	4	1	1	2	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
INCLUDED	350'	12	12	6		3
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4×	(12PP
GROUNDING INCLUDED	3	1	3	3		1

50' ROHN 25G

All parts shown in table are included when ordering Part No: 25G110R050

60' ROHN 25G All parts shown in table are included when ordering Part No: 25G110R060

55'	60'TOWER (11.9) OR 8.7 (12.2) 73'
28′-	
	P/N:25G110R060

70'TOWER -(11.3) OR [8.6]

(<u>11.8</u>) 86'

> 3/16" EHS (399#)

65'

32

TOWER PARTS	25G	25AG2	BPC25G	GA25GD		DNS
	200	20/102	BI 0200	0/12000	BASE	ANCHOR
INCLUDED	5	1	1	2	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
INCLUDED	425'	12	12	6		3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	(12PP
GROUNDING INCLUDED	3	1	3	3		1

70' ROHN 25G All parts shown in table

are included when ordering Part No: 25G110R070

80' ROHN 25G All parts shown in table

are included when ordering Part No: 25G110R080

80'TOWER 75' 10.9 OR 8.3 11.4 99' 50' 3/16" EHS (399#) 25' 69' 64' P/N: 25G110R080

P/N: 25G110R070

	TOWER PARTS INCLUDED	250	25AG2	BPC25G	O A OF OD	FI	DNS
		25G	ZJAGZ	BPC23G	GA25GD	BASE	ANCHOR
		6	1	1	2	CB1G	AB2
	GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
	INCLUDED	500'	12	12	6		3
	ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	(12PP
	INCLUDED	3	1	3	3		1

'TOWER 0.9 OR 8.3		TOWER PARTS	25G	25AG2	BPC25G	GA25GD	FDN BASE AN	
( <u>11.4</u> ) 9'		INCLUDED	7	1	1	3	CB1G A	AB2
3/16" EHS (399#)		GUYS & CONNECTIONS	3/16 EHS	BG2142	5/16 THH	1/2TBE&J TBSAFE		ETY
		INCLUDED	800'	18	18	9	3	
			GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75 3/4x12PI		2PP
5G110R080		GROUNDING INCLUDED	3	1	3	3	1	



TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

## **STANDARD DESIGN - 25G** 110MPH REV. G, 90MPH REV. F



100'TOWER

124′

102

P/N: 25G110R100

110' TOWER

137

112

.95

P/N:25G110R110

9.9 OR 7.8

(10.6)

-3/16" EHS (399#)

95'

63

32′

105′

70

35'

-(10.2) OR 7.9

10.8

3/16" EHS (399#)

	25G		BPC25G	GA25GD	ГĻ	SNIC
TOWER PARTS	250	25AG2	BPC25G	GAZSGD	BASE	ANCHOR
INCLUDED	8	1	1	3	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	AFETY
INCLUDED	900'	18	18	9		3
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x	12PP
INCLUDED	3	1	3	3		1

25AG2

1

BG2142

18

1

25AG2

1

BG2142

18

1

GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75

GAC3455TOP AGK1GGX

25G

9

3/16EHS

1000'

3

25G

10

3/16EHS

1100'

3

BPC25G

1

5/16THH

18

3

BPC25G

1

5/16THH

18

3

BGK3GGX CPC.5/.75

GA25GD

3

1/2TBE&J

9

3

GA25GD

3

1/2TBE&J

9

3

90' ROHN 25G All parts shown in table are included when ordering Part No: 25G110R090

EDNIC

FDNS

BASE ANCHOR

TBSAFETY

3

3/4x12PP

1

FDNS

BASE ANCHOR

TBSAFETY

3

3/4x12PP

1

AB2

CB1G

CB1G AB2

100′	ROHN	25G

All parts shown in table are included when ordering Part No: 25G110R100

1	1	0'	RO	ΗN	2	5 G	
11		4	l		:	ا ما م	ί.

A ble ing

		U	R				2	3	٩
Ш	pa	rts	sł	10	wn	iı	n	tä	a
ir	۱cl	ud	ed	w	he	n	o	rc	ł

are	incl	uded	when	orderin
	Part	No: 2	25G110	DR110

	120' TOWER
Г	← 9.7 OR 7.6
115′	10.4
	150′
86′	129′ Γ <sup>3/16″ EHS</sup>
	129′ (399#)
57′	112'
	<u> </u> ∦∖
28'	100
	96'
F	P/N:25G110R120

TOWER PARTS	25G	25AG2	BPC25G	GA25GD	FDNS BASE ANCHOR
INCLUDED	11	1	1	4	CB1G AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY
INCLUDED	1575'	24	24	12	3
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP
GROUNDING INCLUDED	3	1	3	3	1

130'TOWER 9.3 OR 7.5 125' 163' 163' 163'	TOWER PARTS INCLUDED
93 140' (399#) 62' 121'	GUYS & CONNECTIONS INCLUDED
31' 109' P/N: 25G110R130	ANCHORS & GROUNDING INCLUDED

TOWER PARTS	25G	25AG2	BPC25G	GA25GD		DNS
INCLUDED						ANCHOR
INCLUDED	12	1	1	4	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
INCLUDED	1700'	24	24	12		3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x	12PP
GROUNDING INCLUDED	3	1	3	3		1

120' ROHN 25G

All parts shown in table are included when ordering Part No: 25G110R120

130' ROHN 25G
All parts shown in table
are included when ordering
Part No: 25G110R130



FDNS

BASE ANCHOR

CB1G AB2

TBSAFETY

3

3/4x12PP

1

## **STANDARD DESIGN - 25G** 110MPH REV. G, 90MPH REV. F



150' TOWER

188'

167

148'

133'

123

P/N:25G110R150

145

116

87′

58

29

9.0 OR 7.3

9.9

☐ 3/16" EHS (399#)

120

	050	05400	DDOOFO	040500	FDNS	
TOWER PARTS	25G	25AG2	BPC25G	GA25GD	BASE	ANCHOR
INCLUDED	13	1	1	4	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS BG2142 5/16TH		5/16THH	1/2TBE&J	TBS	AFETY
INCLUDED	1825'	24	24	12		3
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	(12PP
INCLUDED	3	1	3	3		1

140' ROHN 25G All parts shown in table are included when ordering Part No: 25G110R140

	TOWER PARTS	25G	25AG2	BPC25G	GA25GD	
	INCLUDED	14	1	1	5	
	GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	
	INCLUDED	2425'	30	30	15	
	ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	
		3	1	3	3	

150' ROHN 25G

All parts shown in table are included when ordering Part No: 25G110R150



TOWER PARTS	25G	25AG2	BPC25G	GA25GD	FDNS BASE ANCHOR	
INCLUDED	15	1	1	5	CB1G AB2	
GUYS & CONNECTIONS	3/16EHS	/16EHS BG2142 5/16THH 1/2TB		1/2TBE&J	TBSAFETY	
INCLUDED	2600'	30	30	15	3	
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP	
GROUNDING INCLUDED	3	1	3	3	1	

#### 160' ROHN 25G All parts shown in table

are included when ordering Part No: 25G110R160

170'TOWER 165' - 8.7 OR 7.1	TOWER PARTS	25G	25AG2	BPC25G	GA25GD	BASE	INNER ANCHOR	OUTER ANCHOR	
138′	INCLUDED	16	1	1	6	CB2G	AB2	AB2	
110' 3/16" EHS (399#)	GUYS &	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAF	ETY	170' R	OHN 25G
83' 159' 55' 74'	CONNECTIONS INCLUDED ANCHORS & GROUNDING INCLUDED	2800'	36	36	18	6		All parts shown in table are included	
28' 57'		GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x1	2PP when order Part No: 25G11		5
P/N: 25G110R170		6	2	3	6	1			

180'TOWER	TOV
176' 9.6	TOV
145'	
116' 3/16" EHS (399#)	(
87' 185'	CON
58'	IN
29' 58'	AN
50' 144'	GR
P/N: 25G110R180	IN

	TOWER PARTS INCLUDED	25G	25AG2	BPC25G	GA25GD BASE		INNER ANCHC	OUTER ANCHOR	
		17	1	1	6	CB2G	AB2	AB2	
	GUYS & CONNECTIONS INCLUDED	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY		180′ R	
		2925'	36	36	18	6		All pai table a	
	ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP		when	
	INCLUDED	6	2	3	6	1		Part No	

### 180' ROHN 25G

All parts shown in table are included when ordering Part No: 25G110R180



## **STANDARD DESIGN - 25G** 110MPH REV. G, 90MPH REV. F



TOWER PARTS	25G	25AG2	BPC25G	GA25GD	BASE	INNER ANCHOR	OUTER ANCHOR	
INCLUDED	18	1	1	6	CB2G	AB2	AB2	
GUYS &	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	FETY	<b>190' ROHN 2</b> All parts shown table are includ when ordering Part No: 25G110R	
CONNECTIONS INCLUDED	3100'	36	36	18	6			
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x1	2PP		
GROUNDING INCLUDED	6	2	3	6	1 Part			




50'TOWER

62′

48

22

10.1 OR 7.5

10.0

3/16" EHS (399#)

	050	054.00	BPC25G	GA25GD	FDNS	
TOWER PARTS	25G	25AG2			BASE	ANCHOR
INCLUDED	3	1	1	1	CB1G	AB2
GUYS & CONNECTIONS INCLUDED	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
	175'	6	6	3		3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4:	(12PP
	3	1	3	3		1

25AG2

1

BG2142

12

1

GAC3455TOP AGK1GGX

BPC25G

1

5/16THH

12

3

BGK3GGX CPC.5/.75

6

3

25G

4

3/16EHS

350'

3

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED **ANCHORS &** 

GROUNDING

INCLUDED

40' ROHN 25G All parts shown in table are included when ordering Part No: 25G130R040

GA25GD		DNS ANCHOR	
	BASE	ANCHOR	
2	CB1G	AB2	50' ROHN 25G
1/2TBE&J	TBS	AFETY	All parts shown in tab are included when orde
			are included when olde

3

3/4x12PP

1

/n in table en ordering Part No: 25G130R050



TOWER PARTS INCLUDED	25G	25AG2	BPC25G	GA25GD	FDNS BASE ANCHOR
	5	1	1	2	CB1G AB2
GUYS & CONNECTIONS INCLUDED	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY
	425'	12	12	6	3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP
	3	1	3	3	1

60' I	ROHN	25G
-------	------	-----

All parts shown in table are included when ordering Part No: 25G130R060

68′	70'TOWER 9.2 OR 7.0 9.6 88' $\Gamma^{3/16'' EHS}_{(399\#)}$			
32′-	64'			
P/N: 25G130R070				



050	25AG2	BPC25G	040500	FDNS	
25G			GA25GD	BASE	ANCHOR
6	1	1	2	CB1G	AB2
3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
500'	12	12	6		3
GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4>	(12PP
3	1	3	3		1
	3/16EHS 500' GAC3455TOP	6 1   3/16EHS BG2142   500' 12   GAC3455TOP AGK1GGX	6 1   3/16EHS BG2142 5/16THH   500' 12 12   GAC3455TOP AGK1GGX BGK3GGX	6 1 2   3/16EHS BG2142 5/16THH 1/2TBE&J   500' 12 12 6   GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75	25G 25AG2 BPC25G GA25GD BASE   6 1 1 2 CB1G   3/16EHS BG2142 5/16THH 1/2TBE&J TBS/   500' 12 12 6 4   GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75 3/4/

TOWER PARTS	25G	25AG2	BPC25G	GA25GD		DNS ANCHOR
INCLUDED	7	1	1	3	CB1G	
GUYS &	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY
CONNECTIONS INCLUDED	800'	18	18	9		3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4	x12PP
GROUNDING INCLUDED	3	1	3	3		1

#### 70' ROHN 25G

All parts shown in table are included when ordering Part No: 25G130R070

80' ROHN 25G All parts shown in table are included when ordering Part No: 25G130R080





TOWER PARTS INCLUDED	25G	25AG2	BPC25G	GA25GD	FDNS BASE ANCHOR
	8	1	1	3	CB1G AB2
GUYS & CONNECTIONS INCLUDED	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY
	900'	18	18	9	3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP
	3	1	3	3	1

90' ROHN 25G All parts shown in table are included when ordering Part No: 25G130R090



	050	05400	DDOOLO		FDNS	
TOWER PARTS	25G	25AG2	BPC25G	GA25GD	BASE ANCHOR	
INCLUDED	9	1	1	3	CB1G AB2	
GUYS & CONNECTIONS INCLUDED	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY	
	1000'	18	18	9	3	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP	
	3	1	3	3	1	

100' ROHN 25G

All parts shown in table are included when ordering Part No: 25G130R100



# GUYED TOWERS - 25G







GUYED TOWERS - 25G

# **PARTS & ACCESSORIES**





\* TOWERS MOUNTED ON THESE BASES MUST BE BRACKETED OR GUYED AT ALL TIMES. TEMPORARY STEEL GUYING MAY ALSO BE NECESSARY DURING INSTALLATION AND DISMANTLING.



GUYED TOWERS - 25G

40

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# ANCHOR INFORMATION



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# **STANDARD ANCHOR BLOCKS**



#### Refer to page 43 for anchor rod installation angles.

Block	Anchor Dimensions (in.)			ns (in.)	Horizontal Bars	Stirrup Size	Concrete Vol.
DIOCK	Α	В	С	D	(Qty. & Size)	& Spacing	(Cu. Yds.)
AB2	4'-0"	1' - 6″	4' - 0"	6' - 0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#3 @ 12″ O.C.	1.33 Per Block 4.0 Total for 3
AB3	6' - 0″	1'-6″	3'-0"	6' - 0"	<ul><li>(4) #6 Bars, Top Layer</li><li>(4) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#3 @ 12″ O.C.	1.0 Per Block 3.0 Total for 3
AB4	6' - 0″	1'-6"	4' - 0"	9'-0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#4 @ 12″ O.C.	2.0 Per Block 6.0 Total for 3
AB5	8'-0"	2'-0"	3'-0"	10' - 0"	<ul><li>(4) #7 Bars, Top Layer</li><li>(4) #7 Bars, Bottom Layer</li><li>(1) Additional Bar, Each Side</li></ul>	#4 @ 12″ O.C.	2.22 Per Block 6.7 Total for 3
AB6	8'-0"	2'- 0"	4'-0"	10' - 0"	(5) #7 Bars, Top Layer (5) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4 @ 12″ O.C.	2.96 Per Block 8.9 Total for 3



# ANCHOR ROD INSTALLATION ANGLES





25G   90MPH						
Tower	Rod	Rod				
Height	Number	Angle				
40′	GAC3455TOP	48				
50′	GAC3455TOP	42				
60′	GAC3455TOP	42				
70′	GAC3455TOP	42				
80′	GAC3455TOP	39				
90′	GAC3455TOP	39				
100′	GAC3455TOP	39				
110′	GAC3455TOP	39				
120′	GAC3455TOP	38				
130′	GAC3455TOP	38				
140′	GAC3455TOP	38				
150′	GAC3455TOP	37				
160′	GAC3455TOP	37				
170′	GAC3455TOP	37				
180′	GAC3455TOP	37				
190′	GAC3455TOP	37				

25G   110MPH							
Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle			
40′	GAC3455TOP	48	-	-			
50′	GAC3455TOP	41	-	-			
60′	GAC3455TOP	41	-	-			
70′	GAC3455TOP	41	-	-			
80′	GAC3455TOP	38	-	-			
90′	GAC3455TOP	38	-	-			
100′	GAC3455TOP	39	-	-			
110′	GAC3455TOP	38	-	-			
120′	GAC3455TOP	37	-	-			
130′	GAC3455TOP	37	-	-			
140′	GAC3455TOP	37	-	-			
150′	GAC3455TOP	36	-	-			
160′	GAC3455TOP	36	-	-			
170′	GAC3455TOP	40	GAC3455TOP	42			
180′	GAC3455TOP	41	GAC3455TOP	42			
190′	GAC3455TOP	43	GAC3455TOP	42			

2	5G   130MPH	1
Tower	Rod	Rod
Height	Number	Angle
40′	GAC3455TOP	50
50′	GAC3455TOP	41
60′	GAC3455TOP	41
70′	GAC3455TOP	40
80′	GAC3455TOP	38
90′	GAC3455TOP	38
100′	GAC3455TOP	38





# STANDARD BASE PIERS



**PLAN VIEW** 

Base	Α	В	Concrete Vol. (Cu. Yds.) Round Pier	Vertical Bars (No. & Size)
CB1G*	2′-6″	4'-0"	1.0	(8) #7
CB2G	3'-0"	4'-0"	1.2	(10) #7

\* Square pier option must be used for CB1G.





**45** 

-iia

# **STANDARD 45G GUYED TOWER**







#### **GENERAL USE**

The 45G is a true multi-use structure that provides excellent strength for applications up to 300', It is offered with heavy steel round legs to satisfy a variety of needs under varied conditions.

#### FEATURES

- Completely hot-dip galvanized after fabrication
- Built on a 16 3/4" equilateral triangle design
- High strength tubular legs joined by Zig-Zag<sup>®</sup> cross members
- Each section contains all required nuts and bolts shipped with section
- Continuous solid round steel bracing

#### CAUTION

Mixing copies of ROHN towers with ROHN towers is dangerous and voids all engineering and warranty data supplied by ROHN. Materials used by others are not the same quality and have not been tested or engineered by ROHN. Mixing ROHN tower sections with non-ROHN products may cause tower failure or injury.

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 65 for ordering information.



# STANDARD 45G GUYED TOWER SECTIONS



\* Towers mounted on these bases must be bracketed or guyed at all times. Temporary steel guying may also be necessary during installation and dismantling.





This document is to serve as a guide for sizing and purchasing the 45G tower. Tower and foundation installations should be performed by qualified and experienced personnel using assembly drawings provided with each tower.

#### **DESIGN NOTES:**

- 1. Tower designs are in accordance with ANSI/TIA-222-F and ANSI/TIA-222-G, Class I Structures, Topographic Category 1.
- 2. Design assumes towers are installed on level ground. Lower EPA values will apply for roof mounted towers or for sites located on unusual terrain.
- 3. Designs assume two 1/2" diameter lines on each tower face.
- 4. Anchor radius is from tower base to intersection of anchor rod with ground.
- 5. Guy chord lengths shown are based on level ground. Initial tensions for guys are shown in ( ) in pounds at 60° Fahrenheit.
- 6. Antenna and mounts are assumed symmetrically placed at the tower top.

#### PARTS LIST NOTES:

- 1. Items listed are required for complete guyed towers.
- 2. Base and anchor foundations listed refer to standard foundation designations.
- 3. Guys provided with each standard tower are based on level ground conditions with an additional 6% length.
- 4. Rev G anchor grounding (AGK1GGX) and base grounding (BGK3GGX) are included with the tower material.
- 5. Assembly drawings and a safety package (P/N: ACWS) are included with each tower.
- 6. Parts lists are subject to change based on availability or revised design criteria.

FOR FOUNDATION INFORMATION, PLEASE SEE PAGES 66-69. FOR GENERAL INSTALLATION INFORMATION, PLEASE SEE PAGES 147-153.





50'TOWER

P/N:45G90R050

41

29.7 OR 22.0

21.2

·3/16" EHS (399#)



#### 40' ROHN 45G All parts shown in table

are included when ordering Part No: 45G90R040

	450	454.00	000450	GA45GD	FDNS		
TOWER PARTS	45G	45AG2	BPC45G	GA45GD	BASE	ANCHOR	
INCLUDED	4	1	1	1	CB1G	AB2	
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY	
INCLUDED	200'	6	6	3		3	
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4×	12PP	
INCLUDED	3	1	3	3		1	

50' ROHN 45G All parts shown in table are included when ordering Part No: 45G90R050

60'TOWER		
← 28.2 OR 21.2		
20.0		
66'		
(399#)		
48'		
P/N:45G90R060		
	(28.2) OR [21.2] (20.0) (66' (399#) (399#)	(399#) (28.2) OR [21.2) (20.0) (399#) (399#) (48'

FDNS 45G 45AG2 BPC45G GA45GD TOWER PARTS BASE ANCHOR INCLUDED 5 1 1 1 CB1G AB2 GUYS & BG2142 3/16EHS 5/16THH 1/2TBE&J TBSAFETY CONNECTIONS 3 225' 6 6 3 INCLUDED **ANCHORS &** GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75 3/4x12PP GROUNDING 3 3 1 3 1 INCLUDED

	60'	RO	ΗN	45	G
All	part	s sh	nown	in	table
re i	nclud	ded	wher	n o	rderir

are included when ordering Part No: 45G90R060

65′	70'TOWER 26.9 OR 20.4 19.0 86'
35′-	66'
	56' P/N:45G90R070



	450	45400		BPC45G GA45GD		FDNS		
TOWER PARTS	45G	45AG2	BPC45G	GA45GD	BASE	ANCHOR		
INCLUDED	6	1	1	2	CB1G	AB2		
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY		
INCLUDED	500'	12	12	6		3		
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4×	12PP		
INCLUDED	3	1	3	3		1		

TOWER PARTS	45G	45AG2	BPC45G	GA45GD		D <mark>NS</mark> ANCHOR
INCLUDED	7	1	1	2	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	FETY
INCLUDED	525'	12	12	6		3
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP	
GROUNDING INCLUDED	3	1	3	3		1

70' ROHN 45G

All parts shown in table are included when ordering Part No: 45G90R070

#### 80' ROHN 45G All parts shown in table are included when ordering Part No: 45G90R080





	450	45400						
TOWER PARTS	45G	45AG2	BPC45G	GA45GD	BASE	ANCHOR		
INCLUDED	8	1	1	2	CB1G	AB2		
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	AFETY		
INCLUDED	625'	12	12	6		3		
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x	12PP		
INCLUDED	3	1	3	3		1		

#### 90' ROHN 45G

FDNS

**FDNS** 

BASE ANCHOR

6

3

FDNS

BASE ANCHOR

TBSAFETY

3

3/4x12PP

1

AB2

CB1G

CB1G AB2

3/8THH 1/2TBE&J

6

1

GA45GD

3

1/2TBE&J

9

3

All parts shown in table are included when ordering Part No: 45G90R090





45G

10

3/16EHS

1100'

3

TOWER PARTS INCLUDED

GUYS &

CONNECTIONS INCLUDED

**ANCHORS &** 

GROUNDING INCLUDED

45AG2

1

BG2142

18

1

GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75

BPC45G

1

5/16THH

18

3

100' ROHN 45G All parts shown in table

are included when ordering Part No: 45G90R100

	110'TOWER
l r	< 23.6 OR 18.6
105′	16.4
	137′
65'	Γ <sup>3/16″ EHS</sup> (399#)
05	109'
35′	95'
	*
'	P/N:45G90R110
-	





50

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TOWER PARTS	45G		45AG2			BPC45G		GA45GD		FDNS BASE ANCHO		DNS ANCHOR
INCLUDED	11			1		1	1 ;		3	CB1	IG	AB2
GUYS &	3/16EHS	1/4EHS		BG214	12	BG2144	5/16THH		3/8TF	H	1/	2TBE&J
CONNECTIONS INCLUDED	700'	475'		5' 12		6	12		6			9
ANCHORS & GROUNDING	GAC3455TOP AG		AGK	(1GGX	B	GK3GGX	CPC	0.5/.75	3/4x12	2PP	ТΒ	SAFETY
INCLUDED			1		1 3 3 1		3				3	

are included when ordering
Part No: 45G90R110

110' ROHN 45G

All parts shown in table

1	20'	RO	ΗN	45	5 G
All	parts	shc	wn	in 1	table

are included when ordering Part No: 45G90R120

130' ROHN 45G All parts shown in table are included when ordering Part No: 45G90R130

TOWER PARTS	45G	45AG2	BPC45G	GA45GD	FDNS BASE ANCHOR
INCLUDED	12	1	1	3	CB1G AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY
INCLUDED	1325'	18	18	9	3
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP
INCLUDED	3	1	3	3	1

FDNS

BASE ANCHOR

CB1G AB2

TBSAFETY

3

3/4x12PP

1

# **STANDARD DESIGN - 45G** 90MPH REV. G, 70MPH REV. F





BPC45G

1

5/16THH

24

3

GA45GD

4

1/2TBE&J

12

CPC.5/.75

3

45AG2

1

BG2142

24

GAC3455TOP AGK1GGX BGK3GGX

1

45G

14

3/16EHS

1950'

3

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

CO

140' ROHN 45G All parts shown in

table are included when ordering Part No: 45G90R140

150' ROHN 45G

All parts shown in table

are included when ordering

Part No: 45G90R150





TOWER PARTS	45G	4	5AG2		BPC45G	GA45G	D		DNS ANCH	IOR	
INCLUDED	15		1		1	4	_	CB1G	AB	2	
GUYS & CONNECTIONS	3/16EHS	1/4EH	S BG214	12	BG2144	5/16THH	3/	8THH	1/2T	BE&J	
INCLUDED	1425'	625'	18		6	18		6	-	12	
	GAC3455TC	OP AG	K1GGX	В	GK3GGX	CPC.5/.7	75	3/4x1	2PP	TBSA	ETY
GROUNDING INCLUDED	3		1		3	3		1		3	

160' ROHN 45G

All parts shown in table are included when ordering Part No: 45G90R160

	170'TOWER								
165′	← 20.8 OR 16.9 〔14.2〕								
125′	214′ 185′ Г <sup>1/4″</sup> ЕНS (665#)								
85′	160' [3/16" EHS (399#)								
45′	143'								
	P/N:45G90R170								

	45G		4					0 4 4		FDNS		DNS
TOWER PARTS	450		4	45AG2 BPC		BPC45	G GA4		GA45GD		SE	ANCHOR
INCLUDED	16			1		1		4	1	CB1		AB2
GUYS & CONNECTIONS	3/16EHS	1/48	EHS	BG214	12	BG2144	5/16	STHH	3/8TH	Η	1/	2TBE&J
INCLUDED	1575'	70	00'	18		6		18	6			12
ANCHORS & GROUNDING	GAC3455	TOP	AGK	(1GGX	B	GK3GGX	CPC	.5/.75	3/4x12	2PP	TΒ	SAFETY
INCLUDED	3			1		3	3		1			3

#### 170' ROHN 45G

All parts shown in table are included when ordering Part No: 45G90R170

1	8	0	'	R	0	Н	Ν	4	ļ	5	G	
	11		_	-+	~	- I-						

All parts shown in table are included when ordering Part No: 45G90R180

51

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- <b>H</b>	6		<u> </u>	

Products LLC



P/N:45G90R180

TOWER PARTS	45G	45	AG2	E	3PC45G	GA45G	2	FI BASE			
INCLUDED	17		1		1	4		CB1G		_	
GUYS & CONNECTIONS	3/16EHS	1/4EHS	BG214	12	BG2144	5/16THH	3/8	8THH	1/2T	BE&J	
INCLUDED	1625'	700'	18		6	18		6	1	2	
	GAC3455TC	OP AGK	1GGX	В	GK3GGX	CPC.5/.7	'5	3/4x1	2PP	TBSAF	ETY
GROUNDING INCLUDED	3		1		3	3		1	1	3	



200'TOWER -(19.8) OR 16.3

216'

191

173

P/N:45G90R200

164'

11.4 245'

I/4" EHS (665#)

-3/16" EHS (399#)

160

185

145

105

65

35

	45G	45AG2	BPC45G	GA45GD		JNS
TOWER PARTS	400	407.02	DI 0450	074300	BASE	ANCHOR
INCLUDED	18	1	1	5	CB1G	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSA	FETY
INCLUDED	3050'	30	30	15		3
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x	12PP
INCLUDED	3	1	3	3		1

#### 190' ROHN 45G

All parts shown in table are included when ordering Part No: 45G90R190

200'	RO	ΗN	45G

All parts shown in table are included when ordering Part No: 45G90R200

		_									
TOWER PARTS	45G	BP	C45G		APL45G	GA45GD	) 		NS ANCH	OR	
INCLUDED	20		1		1	5		2B1G	AB	-	
GUYS &	3/16EHS 1/	4EHS	BG214	12	BG2144	5/16THH	3/8	зтнн	1/2TI	BE&J	
CONNECTIONS INCLUDED	2375'	800'	24		6	24		6	1	5	
ANCHORS &	GAC3455TOF	AGK	1GGX	В	GK3GGX	CPC.5/.7	'5	3/4x1	2PP	TBSA	FETY
GROUNDING INCLUDED	3		1		3	3			1	3	3



TOWER PARTS	45G	APL45G	BPC45G	GA45GD	BASE	INNER ANCHOR	OUTER ANCHOR	
INCLUDED	21	1	1	5	CB2G	AB2	AB2	
GUYS &	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBS	AFETY		210' ROHN 45G
CONNECTIONS INCLUDED	2900'	30	30	15		6		parts shown in table ncluded when ordering
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4	x12PP	F	Part No: 45G90R210
GROUNDING INCLUDED	6	2	3	6		1		

BPC45G

1

3/16EHS 1/4EHS BG2142 BG2144

GAC3455TOP AGK1GGX BGK3GGX

2

24

875'

APL45G

1

6

3

GA45GD BASE

5

5/16THH

24

CPC.5/.75

6

CB2G

6

3/4x12PP

1

45G

22

2100'

6

TOWER PARTS INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

Products LLC

	220'TOWER
205′	(19.3) OR 16.0 (11.0)
165′	270′ 1/4″ EHS 241′ (665#)
125′	216'
85′	113'
45'	87'
	P/N:45G90R220



TOWER PARTS	45G	APL45G	BPC45G	GA45GD	BASE	INNER ANCHOR	OUTER ANCHOR
INCLUDED	23	1	1	6	CB2G	AB1	AB2
GUYS & CONNECTIONS	3/16EHS	BG2142	5/16THH	1/2TBE&J	TBSAFETY		
INCLUDED	3675'	36	36	18	6		All
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x	12PP	are i
GROUNDING INCLUDED	6	2	3	6	1		-

#### 220' ROHN 45G All parts shown in

INNER OUTER ANCHOR ANCHOR

AB2

TBSAFETY

6

15

AB1

3/8THH 1/2TBE&J

table are included when ordering Part No: 45G90R220

230' ROHN 45G All parts shown in table

e included when ordering Part No: 45G90R230



245

205

165

125

85

45

TOWER PARTS	45G	BPO	BPC45G		APL45G	GA45GD	BASE	INN ANC	ier Hor	OUTER ANCHOR
INCLUDED	24		1		1	6	CB2G AE		81	AB2
GUYS & CONNECTIONS	3/16EHS1	/4EHS	IEHS BG214		BG2144	5/16THH	3/8THH		I 1/2TBE&	
INCLUDED	2800'	950'	30		6	30	6			18
	GAC3455TC	PAGK	1GGX	B	GK3GGX	CPC.5/.75	3/4x12	2PP	TBS	SAFETY
GROUNDING INCLUDED	6		2		3	6	1		6	

APL45G

1

6

3

APL45G

1

6

3

APL45G

1

6

3

GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75 3/4x12PP TBSAFETY

GA

6

GA45GD

7

5/16THH

36

6

1

BASE

CB3G

3/8THH

6

1

GA45GD

6

5/16THH

30

6

BASE

CB2G

3/8THH

6

1

BPC45G

1

3/16EHS 1/4EHS BG2142 BG2144

2

BPC45G

1

2

BPC45G

1

3/16EHS 1/4EHS BG2142 BG2144

2

36

GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75

1100'

3/16EHS 1/4EHS BG2142 BG2144 5/16

36

30

GAC3455TOP AGK1GGX BGK3GGX CPC.5/.75

1025'

45G

25

3125'

6

45G

27

3825'

6

45G

28

3900'

6

240' ROHN 45G All parts shown in table are included when ordering Part No: 45G90R240

2	250' ROHN 45G
l	All parts shown in
ł	table are included
L	when ordering
١.	Part No: 45G90R250

250'TOWER 18.6 OR 15.6 10.4 316' 286' / 1/4" EHS 286' / (665#)	TOWER PARTS INCLUDED
259' (665#) 259' - 3/16" EHS (399#)	GUYS & CONNECTIONS INCLUDED
P/N:45G90R250	ANCHORS & GROUNDING INCLUDED

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED







TOWER PARTS	45G	BP	BPC45G		APL45G	GA45GD	BASE	INN ANCI	ier Hor	OUTER ANCHOR
INCLUDED	26		1		1	6	CB3G AE		32	AB2
GUYS & CONNECTIONS	3/16EHS 1/	4EHS	BG214	42	BG2144	5/16THH	3/8TI	ΗΗ	1/2	TBE&J
INCLUDED	3200'	1025'	30		6	30	6			18
	GAC3455TOF	AGK	AGK1GGX		GK3GGX	CPC.5/.75	3/4x12PP		TBSAFETY	
GROUNDING INCLUDED	6		2		3	6				6

#### 260' ROHN 45G

All parts shown in table are included when ordering Part No: 45G90R260

45GD	BASE	INN ANC	ier Hor	OUTER ANCHOR	270' ROHN 45G
7	CB3G	AE	32	AB2	All parts shown in table are included
6THH	3/8TI	ΗH	1/2TBE&J		when ordering Part No: 45G90R270
36	6			21	Fall NO. 43090K270

6

AB2

1/2TBE&J

21

6

INNER OUTER

AB2

3/4x12PP TBSAFETY

INNER OUTER

AB2

1/2TBE&J

18

6

AB1

3/4x12PP TBSAFETY

#### 280' ROHN 45G

All parts shown in table are included when ordering Part No: 45G90R280

-	
- 1	
	Products LLC

1125'

28			TOWER PARTS	45G	BF	C45G	APL45G	GA45GD	BASE	INNER ANCHOI	OUTER ANCHOR	
24	1/4" EHS		INCLUDED	29		1	1	7	CB3G	AB2	AB2	290' ROHN 45G
20	<sup>2</sup> 310'		GUYS & CONNECTIONS	3/16EHS	I/4EH	6 BG214	42 BG2144	5/16THH	3/8TH	HH 1/	2TBE&J	All parts shown in table are included
	285' (399#)		INCLUDED	4275'	1175'	36	6	36	6		21	when ordering
	15' 163' 135' 135' 114' corr corr		ANCHORS & GROUNDING	GAC3455TC	PAGI	(1GGX	BGK3GGX	CPC.5/.75	3/4x12	2PP TB	SAFETY	Part No: 45G90R290
- I ·	105 232		INCLUDED	6		2	3	6	1		6	
	P/N:45G90R290		INCLODED	Ŭ				-				
L		l	INCLODED	0								
28	300′TOWER 15′∏ ← 17.6) OR 15.0		TOWER PARTS	45G	BF	PC45G	APL45G	GA45GD	BASE	INNER	OUTER ANCHOR	
24	300'TOWER (17.6) OR [15.0] (9.6) 373' Γ1/4",EHS				BF	PC45G	APL45G	GA45GD 7	BASE CB3G		OUTER ANCHOR AB2	300' ROHN 45G
24 20	300'TOWER 17.6 OR [15.0] 9.6 373' 1/4" EHS 1665#) 1665#)		TOWER PARTS INCLUDED GUYS &	45G 30		1	APL45G 1 42 BG2144			AB2		<b>300' ROHN 45G</b> All parts shown in
24 20 16 12	300'TOWER 15' 9.6 15' 9.6 15' 343' -1/4" EHS 15' 343' -1/4" EHS 15' 316' -3/16" EHS 291' 316' EHS 291' 316' 291'		TOWER PARTS INCLUDED	45G 30		1	1	7	CB3G	AB2 HH 1/	AB2	<b>300' ROHN 45G</b> All parts shown in table are included when ordering
24 20 16 12 8	300'TOWER (17.6) OR [15.0] (5' (5' (5' (665#) 316' (665#) 316' (399#) (399#)		TOWER PARTS INCLUDED GUYS & CONNECTIONS	45G 30 3/16EHS	1/4EH	1 5 BG214 36	1 42 BG2144	7 5/16THH 36	CB3G 3/8TH 6	AB2 HH 1/	AB2 2TBE&J 21	<b>300' ROHN 45G</b> All parts shown in table are included

2

6

INCLUDED

3

6

1

6



P/N:45G90R300

FDNS

EDNIC

# **STANDARD DESIGN - 45G** 110MPH REV. G, 90MPH REV. F









TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS



61

29



	45G	45AG2	BPC45G	GA45GD				
TOWER PARTS	450	43AG2	BFC45G	GA45GD	BASE	ANCHOR		
INCLUDED	3	1	1	1	CB1G	AB2		
GUYS & CONNECTIONS	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBSAFETY			
INCLUDED	150'	6	6	3		3		
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4	x12PP		
GROUNDING INCLUDED	3	1	3	3		1		

	450	45AG2	BPC45G	GA45GD	F	DNS
TOWER PARTS	45G	45AGZ	BPC45G	GA45GD	BASE	ANCHOR
INCLUDED	4	1	1	1	CB1G	AB2
GUYS & CONNECTIONS	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBS	AFETY
INCLUDED	200'	6	6	3	3	
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4	x12PP
GROUNDING INCLUDED	3	1	3	3		1

40' ROHN 45G All parts shown in table are included when ordering

Part No: 45G110R040

50' ROHN 45G All parts shown in table are included when ordering

Part No: 45G110R050

45G		45	AG2		BPC45G	GA45G	D		ANCHOR						
5			1		1	2		CB1G				ROHN 45G			
3/16EHS	1/4	ŧEHS	BG214	2	BG2144	5/16THH	3/8	зтнн	1/2TBE	&J	table	table are included			
175'	2	225'	6		6	6		6	6			when ordering Part No: 45G110R060			
GAC3455TC	C3455TOP AGK1GGX		1GGX	В	GK3GGX CPC.5/		75	5 3/4x12PP		TBSAFETY					
3	1			3	3		1		3						

TOWER PARTS	45G	45	AG2	BPC45G	GA45GI		FDNS BASE ANCHOR		70/			
INCLUDED	6		1	1	2	С	B1G	AB2	All p	ROHN 45G		
GUYS & CONNECTIONS	3/16EHS1	/4EHS	BG214	2 BG2144	5/16THH	3/8	тнн	1/2TBE	&J wh	e are included 1en ordering		
INCLUDED	225'	275'	6	6	6		6	6	Part N	Part No: 45G110R070		
	GAC3455TC	PAGK	1GGX	BGK3GGX	CPC.5/.	75	3/4	x12PP	TBSAFETY			
GROUNDING INCLUDED	3		1	3	3			1	3			

TOWER PARTS	45G	45	AG2	BPC45G	GA45GI	D -		D <mark>NS</mark> ANCHOR		o o /	DOUN 45C
INCLUDED	7		1	1	2	C	CB1G AB2			80' ROHN 45G All parts shown in	
GUYS & CONNECTIONS	3/16EHS 1/	4EHS	BG214	2 BG2144	5/16THH	3/8	втнн	1/2TBE	&J	wh	are included en ordering
INCLUDED			6	6	6		6	6	Pa	Part No: 45G110R080	
	GAC3455TOF	AGK	1GGX	BGK3GGX	CPC.5/.	75	3/4	x12PP	TBSAFE	ΞTΥ	
GROUNDING INCLUDED	3		1	3	3			1	3		





TOWER PARTS	45G	45	45AG2		BPC45G	GA45GI	D	FDNS BASE ANCHOR			
INCLUDED	8		1		1	2		CB1G AB2			<b>90</b> All
GUYS & CONNECTIONS	3/16EHS 1	4EHS	4EHS BG214 350' 6		BG2144	5/16THH	3/8	зтнн	1/2TBE	&J	tabl w
INCLUDED	275'	350'			6	6		6	6		Part
ANCHORS & GROUNDING	GAC3455TOP A		AGK1GGX		GK3GGX	CPC.5/.75		3/4	x12PP	ТΒ	SAFETY
INCLUDED	3		1		3	3		1			3

12

#### 90' ROHN 45G All parts shown in

table are included when ordering art No: 45G110R090

100' ROHN 45G

All parts shown in

table are included

when ordering

Part No: 45G110R100

100'TOWER	
91' 16.3 OR 12.7 16.2 121'	
_1/4" FHS	
31' 86' -3/16" EHS (399#)	
80'	
P/N:45G110R100	

110'TOWER -(15.8) OR 12.5

134'

P/N:45G110R110

120'TOWER 15.4 OR 12.2

147′

122'

P/N:45G110R120

102

(15.2)

Products LLC

(15.6)

1/4" EHS (665#)

-3/16" EHS (399#)

88'

101

67

34

111'

75

35′



GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

ANCHORS &	GAC3455TOF	AGK1GGX	BGK3GGX	CPC.5/.75	5 3/4x	12PP	TBSAFETY
GROUNDING INCLUDED	3	1	3	3		1	3
	45G	45AG2	BPC45G	GA45GD	FD	NS	
TOWER PARTS	400	437.62	BFC43G	GA45GD	BASE A	ANCHOR	
INCLUDED				•	0040		110
	10	1 1	1	3	CB1G	AB2	

BPC45G

1

6

All parts shown in 3/16EHS 1/4EHS BG2142 BG2144 5/16THH 3/8THH 1/2TBE&J table are included when ordering 675' 450' 12 12 6 6 9 Part No: 45G110R110 GAC3455TO 3

GA45GD

3

12

ЭР	AGK1GGX	BGK3GGX	CPC.5/.7	5 3/4	x12PP	TBS	SAFETY
	1	3	3		1		3
	45AG2	BPC45G	GA45GD		DNS ANCHOR	2	
		4	<u> </u>	0040	4.50	1	12

**FDNS** 

BASE ANCHOR

AB2

9

1

CB1G

6

OR 12.2		TOWER PARTS	45G	45	5AG2	BPC45G	GA45G		ANCHO	- R	
15.2		INCLUDED	11		1	1	3	CB1G	AB2	2	
-1/4" EHS (665#)			3/16EHS	1/4EHS	BG214	2 BG2144	5/16THH	3/8THH	1/2TBE	E&J	
3/16" EHS (399#)		CONNECTIONS INCLUDED	725'	475'	12	6	12	6	9	F	
*			GAC3455T0	OP AGł	(1GGX	BGK3GGX	CPC.5/.	75 3/4x1	2PP TE	<b>3SAFETY</b>	
<u>96'</u> 10R120		GROUNDING	3		1	3	3	1	1 3		

120 r	(U		450
All par	ts	shov	vn in
table a	re	inclu	ıded

when ordering Part No: 45G110R120

	130'TOWER	
21′	← 15.1 OR 12.0	
21'	14.8	
78′	160′	
78	1/4″ EHS	
~-/	130 (003#)	
35′	110' -3/16" EHS (399#)	
	(599#)	
_	104′	
Р	/N:45G110R130	

TOWER PARTS	45G	45	AG2	BPC45G	GA45G		DNS ANCH	OR	
INCLUDED	12		1	1	3	CB1G	AB2	2	<b>130' ROHN 45G</b> All parts shown in
	3/16EHS 1	4EHS	BG214	2 BG2144	5/16THH	3/8THH	1/2TE	BE&J	table are included when ordering
CONNECTIONS INCLUDED	775'	525'	12	6	12	6	9	)	Part No: 45G110R130
ANCHORS &	GAC3455TO	AGK	1GGX	BGK3GGX	CPC.5/.7	75 3/4x1	2PP	TBSAFETY	
GROUNDING INCLUDED	3		1	3	3	1		3	



150' TOWER 14.5 OR 11.7

185′

160′

P/N:45G110R150

160' **TOWER** 14.2 OR 11.5

149'

(13.8) 198'

1/4" EHS (665#)

3/16" EHS (399#)

128

C

140'

(14.0)

1/4" EHS (665#)

3/16" EHS (399#)

120

141

06'

72

35 125

151

113

76

38 134 ٦

C

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

TOWER PARTS 45G 45AG2 BF	PC45G GA45GD FDNS BASE ANCHOR	
INCLUDED 13 1	1 4 CB1G AB2	14 A
GUYS & 3/16EHS 1/4EHS BG2142 B	3G2144 5/16THH 3/8THH 1/2TBE&J	ta
INCLUDED 1275' 550' 18	6 18 6 12	Par
ANCHORS & GAC3455TOP AGK1GGX BG	K3GGX CPC.5/.75 3/4x12PP TBSAFE	TY
INCLUDED 3 1	3 3 1 3	

140' ROHN 45G

All parts shown in table are included when ordering Part No: 45G110R140

45G		15	AG2		BPC45G	GA45G		F	DNS			
45G		45	AGZ		BPC45G	GA45G	J	BASE	BASE ANCHOR			
14			1		1	4		CB1G	AB	2	-	50' ROHN 45G
3/16EHS1	/4	EHS	BG214	2	BG2144	5/16THH	3/	8THH	1/2T	BE8		able are included when ordering
1375'	6	i00'	18		6	18		6	1	12	Pa	rt No: 45G110R150
GAC3455TO	P	AGK	1GGX	В	GK3GGX	CPC.5/.7	75	3/4x1	2PP	TBS	SAFETY	
3			1		3	3		1		3		

160′	ROHN	45G
------	------	-----

II parts shown in able are included when ordering rt No: 45G110R160

TOWER PARTS	45G	45	AG2	I	BPC45G	GA45GD		FDNS BASE ANCH		DR	
INCLUDED	15		1		1	4		CB2G	AB2		<b>16</b> Al
GUYS &	3/16EHS1	/4EHS	BG214	12	BG2144	5/16THH	3/8	втнн	HH 1/2TE		ta
CONNECTIONS INCLUDED	1450'	650'	18		6	18		6	12	2	Par
ANCHORS & GROUNDING	GAC3455TC	P AGK	IGGX E		GK3GGX	CPC.5/.7	75	3/4x′	3/4x12PP		SAFETY
INCLUDED	3		1		3	3		1			3

#### 0' ROHN 45G

parts shown in ole are included when ordering No: 45G110R170

161′ 128′ 96′-	170'TOWER 14.0 OR 11.4 13.6 211' 187' 1/4" EHS (605#)
96' - 64' - 32' -	(605#) 166 150' (399#) 140'
 P/	/N:45G110R170

P/N:45G110R160



	45G	45A0	45AG2		PC45G	GA45GD			DNS		
TOWER PARTS INCLUDED	16	1			1	5		CB2G	ANCHOR AB3		170 All
	/16EHS 1	/4EHS	S BG21		BG2144	5/16THH 3		3THH	5/8TBE&J		tabl w Part
CONNECTIONS INCLUDED	2050'	675'	24	6		24		6	15		Parti
	AC5655TOF	AGK10	GGX	BG	SK3GGX	CPC1/1.	.25 3/		x12PP	ТΒ	SAFETY
GROUNDING INCLUDED	3	1			3	3			1		3

2	TOWER PARTS	45G	45GI	45GL2*		PC45G	GA45GD		APL45G			DNS ANCHOR	
	INCLUDED	17	1			1	5		1	C	B2G	AB3	<b>180' ROHN 45G</b> All parts shown in
) )	GUYS & CONNECTIONS	3/16EHS	142265	BG21	142	BG2146	5/16THH	7/1	6THH	5/8TI	3E&J		table are included
#)	INCLUDED	2175'	725'	24	ŀ	6	24		6	1	5		when ordering Part No: 45G110R180
	ANCHORS & GROUNDING	GAC5655TO	P AGK10	GGX	BG	SK3GGX	CPC1/1.	.25	3/4	x12P	> TE	BSAFET	<u> </u>
<u>44'</u>	INCLUDED	3	1			3	3			1		3	

\* 45GL2 Lug section required for 5/16" guy



200'TOWER -(13.4) OR [11.0]

250'

223'

197

177

P/N:45G110R200

210'TOWER -13.2 OR 10.9

263' 237' 5/16" EHS (1,120#)

214'

195

85

64'

P/N:45G110R210

(10.4)

-<sup>3/16"</sup> EHS (399#)

55' 168'

10.6

5/16" EHS (1,120#)

-3/16" EHS (399#)

160

192'

155

115′

75′

35' 164'

202'

167′

133′

99'

65′

33

TOWER PARTS	45G	45GI	45GL2*		PC45G	GA45GD		APL45G			-DNS ANCHOR	
INCLUDED	18	1		1		5		1		CB2G	AB3	190' ROHN 45G
GUYS & CONNECTIONS INCLUDED	3/16EHS 1	42265	BG21	142	BG2146	5/16THH 7/16		6THH 5/8T		FBE&J	I	All parts shown in table are included
	2300'	725'	24	ŀ	6	24		6		15		when ordering Part No: 45G110R190
	GAC5655TOF	AGK1	GGX	BG	K3GGX	CPC1/1	.25	3/4	x12F	PP TI	BSAFETY	
GROUNDING INCLUDED	3	1			3	3		1			3	

00' ROHN 45G All parts shown in able are included when ordering art No: 45G110R200

	45G	45G	45GL2*		PC45G	GA45GD		APL45G				DNS	
TOWER PARTS	-50				10400					BAS	SE	ANCHOR	
INCLUDED	19	1			1	5		1		CB2G		AB3	20
GUYS &	3/16EHS	142265	BG2	142	BG2146	5/16THH 7/1		16THH 5/8		FBE&J			Al ta
CONNECTIONS INCLUDED	2425'	800'	24	1	6	24	6		15				Par
ANCHORS &	GAC5655TC	P AGK1	GGX	BG	GK3GGX	CPC1/1.25		3/4x12PP		PP TB		SAFETY	ſ
GROUNDING INCLUDED	3	1			3	3		1				3	

210' ROHN 45G
All parts shown in
table are included
when ordering
Part No: 45G110R210

TOWER PARTS	45G	BP	C45G	45GL2*		APL45G	GA45GD	BASE	INNER ANCHOR	OUTER ANCHOR	
INCLUDED	20		1	1		1	6	CB3G	AB2	AB3	
	3/16EH	HS 14		265		G2142	BG2146	5/1	6THH		2
GUYS & CONNECTIONS INCLUDED	2550'		850'			30	6		30		1
	7/16THH		1/2TBE&J		5/8TBE&J		TBSAFET	Y 3/4	x12PP		Pa
	6	6		6		12	6		1		
ANCHORS & GROUNDING	GAC565	5TOP	GAC3455TOP		AG	K1GGX	BGK3GG	К СРС	0.5/.75	CPC1/	1.25
INCLUDED	3		3			2	3		3	3	

	220'TOWER
212′	← 13.0 OR 10.8 10.2
175′-	276'
139′	248' - 5/16" EHS (1,120#)
105′	<sup>224′</sup> <sup>3/16″ EHS</sup>
69′	205' Γ <sup>1/4"</sup> EHS (665#)
35′	91' 69'
	60' 176'
P,	/N:45G110R220

TOWER PARTS	45G	BPO	C45G	45GL	.2*	APL45G	GA45GD	BASE	INNER ANCHOR	OUTER ANCHOR			
INCLUDED	21		1	1		1	6	CB3G	AB2	AB3			
GUYS & CONNECTIONS	3/16EH	IS	1/4EHS		1	42265	BG2142	BG	62144	BG2146		220' ROHN 45G All parts shown in	
	1875' 80		00'	900'		24		6	6		table are included when ordering		
INCLUDED	5/16THH 3		3/8	гнн	7/	16THH	1/2TBE&J	J 5/8	TBE&J	TBSAFET	Y	Part No: 45G110	0R220
	24		6	6		6	6		12	6			
ANCHORS & GROUNDING	GAC5658	TOP	GAC34	155TOP	AG	K1GGX	BGK3GGX	СРС	0.5/.75	CPC1/1.2		3/4X12PP	
INCLUDED	3	3 3		3		2	3		3	3		1	

\* 45GL2 Lug section required for 5/16" guy





TOWER PARTS	45G	BPC4	5G APL450	GA45GD	45GL2*	BASE	INNER ANCHOR	OUTER ANCHOR			
INCLUDED	22	1	1	7	1	CB3G	AB2	AB3			
GUYS & CONNECTIONS	3/16	EHS	1/4EHS	142265	BG2142	BG	62144	BG2146		230' ROHN 45G All parts shown in	
	24	75'	850'	925'	30	6		6		table are included when ordering	
INCLUDED	5/16THH 3		3/8THH	7/16THH	1/2TBE&	J 5/8 <sup>-</sup>	TBE&J	TBSAFE	TY	Part No: 45G1	10R230
	3	30	6	6	9		12	6			
	GAC34	155TOP	GAC5655TOP	AGK1GGX	BGK3GGX	CPC	.5/.75	CPC1/1	.25	3/4x12PP	
GROUNDING INCLUDED	;	3		2	3		3	3		1	



TOWER PARTS	45G	BPC45	G APL45G	GA45GD	45GL2*	BASE	INNER ANCHOR	OUTER ANCHOR			
INCLUDED	23	1	1	7	1	CB3G	AB2	AB3			
	3/16	EHS	1/4EHS	142265	BG2142	BC	G2144	BG21	46	240' ROHM	
GUYS & CONNECTIONS	25	25'	875'	975'	30		6	6		All parts sho table are inc	luded
INCLUDED	5/16	THH	3/8THH	7/16THH	1/2TBE&J	5/8	TBE&J	TBSAF	ETY	when orde Part No: 45G1	5
	3	30	6	6	9		12	6			
ANCHORS & GROUNDING	GAC34	155TOP	GAC5655TOP	AGK1GGX	BGK3GGX	CPC	0.5/.75	CPC1/1	.25	3/4x12PP	
INCLUDED	:	3	3	2	3		3	3		1	

\* 45GL2 Lug section required for 5/16" guy



TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

# **STANDARD DESIGN - 45G** 130MPH REV. G, 110MPH REV. F

#### 40' ROHN 45G

All parts shown in table are included when ordering Part No: 45G130R040

50' ROHN 45G

All parts shown in

table are included

when ordering

Part No: 45G130R050

TOWER PARTS	45G	45AG2	1	GA45GD	FDNS
IOWER PARIS					BASE ANCHOR
INCLUDED	3	1	1	1	CB1G AB2
GUYS & CONNECTIONS	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBSAFETY
INCLUDED	150'	6	6	3	3
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	3/4x12PP
GROUNDING INCLUDED	3	1	3	3	1

45AG2

1

BG2144

6

GAC3455TOP AGK1GGX BGK3GGX

1

BPC45G

1

3/8THH

6

3



40'TOWER

P/N:45G130R040

47'

35'

(15.3) OR 11.1

(13.0)

1/4" EHS (665#)



70'TOWER

65′

29



45G

4

1/4EHS

200'

3

		1		1	2	C	CB1G	AB2		All par
1/4	1EHS	BG214	12	BG2144	5/16THH	3/8	тнн	1/2TBE	&J	table a when
2	250'	6		6	6 6		6	6		Part No:
OP	AGK	1GGX	в	GK3GGX	CPC.5/.	75	3/4	x12PP	TE	BSAFETY

GA45GD

1

1/2TBE&J

3

CPC.5/.75

3

GA45GD

3

**FDNS** 

BASE ANCHOR

TBSAFETY

3

3/4x12PP

1

FDNS

BASE ANCHOR

1

CB1G AB2

60' ROHN 45G

All parts shown in able are included when ordering art No: 45G130R060

3

70'TOWER 	TOWER PARTS	45G	45	AG2	E	BPC45G	GA45GI			DNS ANCHOR			
(11.0) 86'	INCLUDED	6		1		1	2	C	B1G	AB2			<b>OHN 45G</b> s shown in
1/4″ EHS (665#) r3/16″ EHS	GUYS & CONNECTIONS	3/16EHS <sup>2</sup>	I/4EHS	BG214	12	BG2144	5/16THH	3/8	тнн	1/2TBE	&J	table ar	e included ordering
63' (399#)	INCLUDED	225'	275'	6		6	6		6	6			45G130R070
	ANCHORS & GROUNDING	GAC3455TC	DP AGK	1GGX	B	GK3GGX	CPC.5/.	75	3/4	x12PP	TE	BSAFETY	
<b>56</b> ′ N:45G130R070	INCLUDED	3		1		3	3			1		3	

	TOWER PARTS	45G	45	AG2	BPC45G	GA45G			DNS ANCHOR			
	INCLUDED	7		1	1	2	С	B1G	AB2			<b>)HN 45G</b> s shown in
; HS	GUYS & CONNECTIONS	3/16EHS 1/-	4EHS	BG214	2 BG2144	5/16THH	3/8	тнн	1/2TBE	&J	table ar	e included ordering
•)	INCLUDED	250'	325'	6	6	6		6	6			45G130R080
		GAC3455TOF	AGK	1GGX	BGK3GGX	CPC.5/.	75	3/4	x12PP	TE	BSAFETY	
<u>.64′</u> )	GROUNDING INCLUDED	3		1	3	3			1		3	



P/N:45G130R080





# \* 45GL5 Lug section required for 5/16" guy

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140' ROHN 45G All parts shown in table are included when ordering Part No: 45G130R140

FDNS

DNS ANCHOR
AB3
2146
6

	45G	45GL5*	BPC45G	GA45GD	APL45G	<u> </u>	
TOWER PARTS	400	40GL0	DPC43G	GA45GD	APL45G	BASE	ANCHOR
INCLUDED	14	1	1	4	1	CB2G	AB3
	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG	2146
GUYS & CONNECTIONS	850'	525'	600'	12	6		6
INCLUDED	5/16THH	3/8THH	7/16THH	5/8TBE&J	TBSAFETY		
	12	6	6	12	3		
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25	3/4x12PP		
INCLUDED	3	1	3	3	1		

150' ROHN 45G

All parts shown in table are included when ordering Part No: 45G130R150

\* 45GL5 Lug section required for 5/16" guy















GUYED TOWERS - 45G



\* TOWERS MOUNTED ON THESE BASES MUST BE BRACKETED OR GUYED AT ALL TIMES. TEMPORARY STEEL GUYING MAY ALSO BE NECESSARY DURING INSTALLATION AND DISMANTLING.



#### **PARTS & ACCESSORIES** $(\square$ C 10 **TORQUE BAR GUY BRACKET** THRUST TOWER TB45D GA45GD BUSHING BEARING OPTIONAL, FOR USE WITH GA45GD. REQUIRES (1) 3/8" SHACKLE MOUNTS TO TOWER AT ANY TB50 - 1-1/4" I.D. X 2" O.D. TB3 - SUPPORTS UP TO 2" O.D. MAST. HORIZONTAL BRACE. TB75 - 1-1/2" I.D. X 2" O.D. FOR EACH BAR. TB4 - SUPPORTS UP TO 3" O.D. MAST. MOUNTS TO BPL45G AND 45AG4. FOR USE ON 45AG TOP SECTION **ERECTION FIXTURE** EF2545 - 2 1/2" SHEAVE WITH WORK PLATFORM **SAFETY RING** 3/8" I.D. GROOVE. **ANTI-CLIMB PANELS** WP45G SR245 NOTE: ERECTION FIXTURES ARE FOR VW913A SNAPS INTO PLACE AT ANY LEVEL. SNAPS INTO PLACE AT ANY LEVEL. LIFTING ONE 10' SECTION AT A TIME AND THREE ANTI-CLIMB PANELS BOLT NO BOLTS REQUIRED. NO BOLTS REQUIRED. ARE NOT INTENDED FOR THE LIFTING OF TO STANDARD TOWER SECTION. PERSONNEL. SAFETY CABLE SYSTEM





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# ANCHOR INFORMATION



# STANDARD ANCHOR BLOCKS



#### Refer to page 68 for anchor rod installation angles.

Block	Anch	or Dim	ensior	ns (in.)	Horizontal Bars	Stirrup Size	Concrete Vol.
БЮСК	Α	В	С	D	(Qty. & Size)	& Spacing	(Cu. Yds.)
AB2	4'-0"	1' - 6″	4' - 0"	6' - 0"	(5) #6 Bars, Top Layer (5) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″ O.C.	1.33 Per Block 4.0 Total for 3
AB3	6' - 0"	1'-6″	3'-0"	6' - 0"	(4) #6 Bars, Top Layer (4) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″ O.C.	1.0 Per Block 3.0 Total for 3
AB4	6' - 0″	1'-6″	4' - 0"	9'-0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#4 @ 12″ O.C.	2.0 Per Block 6.0 Total for 3
AB5	8'-0"	2'-0"	3'-0"	10' - 0"	(4) #7 Bars, Top Layer (4) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4 @ 12″ O.C.	2.22 Per Block 6.7 Total for 3
AB6	8'-0"	2'-0"	4'-0"	10′ - 0″	(5) #7 Bars, Top Layer (5) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4 @ 12″ O.C.	2.96 Per Block 8.9 Total for 3



# ANCHOR ROD INSTALLATION ANGLES





	45G	90N	1PH			45G	45G   130MPH					
Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle	Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle	Tower Height	Rod Number	Rod Angle
40′	GAC3455TOP	45	-	-	40′	GAC3455TOP	45	-	-	40′	GAC3455TOP	48
50′	GAC3455TOP	46	-	-	50′	GAC3455TOP	46	-	-	50′	GAC3455TOP	48
60′	GAC3455TOP	43	-	-	60′	GAC3455TOP	41	-	-	60′	GAC3455TOP	40
70′	GAC3455TOP	43	-	-	70′	GAC3455TOP	41	-	-	70′	GAC3455TOP	40
80′	GAC3455TOP	41	-	-	80′	GAC3455TOP	41	-	-	80′	GAC3455TOP	40
90′	GAC3455TOP	42	-	-	90′	GAC3455TOP	41	-	-	90′	GAC3455TOP	40
100′	GAC3455TOP	42	-	-	100′	GAC3455TOP	39	-	-	100′	GAC3455TOP	38
110′	GAC3455TOP	40	-	-	110′	GAC3455TOP	39	-	-	110′	GAC3455TOP	38
120′	GAC3455TOP	39	-	-	120′	GAC3455TOP	39	-	-	120′	GAC3455TOP	38
130′	GAC3455TOP	40	-	-	130′	GAC3455TOP	38	-	-	130′	GAC5655TOP	38
140′	GAC3455TOP	39	-	-	140′	GAC3455TOP	38	-	-	140′	GAC5655TOP	37
150′	GAC3455TOP	38	-	-	150′	GAC3455TOP	38	-	-	150′	GAC5655TOP	37
160′	GAC3455TOP	37	-	-	160′	GAC3455TOP	38	-	-			
170′	GAC3455TOP	38	-	-	170′	GAC5655TOP	37	-	-			
180′	GAC3455TOP	38	-	-	180′	GAC5655TOP	37	-	-			
190′	GAC3455TOP	36	-	-	190′	GAC5655TOP	37	-	-			
200′	GAC3455TOP	36	-	-	200′	GAC5655TOP	37	-	-			
210′	GAC3455TOP	40	GAC3455TOP	44	210′	GAC3455TOP	41	GAC5655TOP	42			
220′	GAC3455TOP	40	GAC3455TOP	44	220′	GAC3455TOP	41	GAC5655TOP	42			
230′	GAC3455TOP	42	GAC3455TOP	42	230′	GAC3455TOP	38	GAC5655TOP	43			
240′	GAC3455TOP	42	GAC3455TOP	41	240′	GAC3455TOP	39	GAC5655TOP	43			
250′	GAC3455TOP	40	GAC3455TOP	43								
260′	GAC3455TOP	40	GAC3455TOP	42								
270′	GAC3455TOP	38	GAC3455TOP	43								
280′	GAC3455TOP	38	GAC3455TOP	43								
290′	GAC3455TOP	38	GAC3455TOP	44								
300′	GAC3455TOP	38	GAC3455TOP	43								



# STANDARD BASE PIERS



**ELEVATION VIEW** 



**PLAN VIEW** 

Base	Α	В	Vertical Bars (No. & Size)	
CB1G*	2'-6"	4'-0"	1.0	(8) #7
CB2G	3'-0"	4'-0"	1.2	(10) #7
CB3G	3'-6"	4'-0"	1.6	(12) #7

\* Square pier option must be used for CB1G.



# **STANDARD 45GSR GUYED TOWER**

# **ROHN 45GSR** The first. The original.

# 45GSR

#### **GENERAL USE**

The 45GSR maintains the utility of the 45G and adds the strength of solid round steel legs. The 45GSR has a strong 4 bolt flange connection, giving connection joints superior strength over typical 1 bolt flange connection systems. The 45GSR is available in heights up to 340'.

#### **FEATURES**

- Completely hot-dip galvanized after fabrication
- Built on a 16 3/4" equilateral triangle design
- Heavy solid steel round legs joined by Zig-Zag<sup>®</sup> cross members
- Each section contains all required nuts and bolts shipped with section
- Continuous solid round steel bracing

#### CAUTION

Mixing copies of ROHN towers with ROHN towers is dangerous and voids all engineering and warranty data supplied by ROHN. Materials used by others are not the same quality and have not been tested or engineered by ROHN. Mixing ROHN tower sections with non-ROHN products may cause tower failure or injury.

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 92 for ordering information.


## STANDARD 45GSR GUYED TOWER SECTIONS





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# BUYERS GUIDE STANDARD DESIGNS - 45GSR 90MPH REV. G [3 SECOND GUST]



This document is to serve as a guide for sizing and purchasing the 45GSR tower. Tower and foundation installations should be performed by qualified and experienced personnel using assembly drawings provided with each tower.

### **DESIGN NOTES:**

- 1. Tower designs are in accordance with ANSI/TIA-222-G, Class I Structures, Topographic Category 1.
- 2. Design assumes towers are installed on level ground. Lower EPA values will apply for roof mounted towers or for sites located on unusual terrain.
- 3. Designs assume two 7/8" diameter lines on each tower face.
- 4. Anchor radius is from tower base to intersection of anchor rod with ground.
- 5. Guy chord lengths shown are based on level ground. Initial tensions for guys are shown in ( ) in pounds at 60° Fahrenheit.
- 6. Antenna and mounts are assumed symmetrically placed at the tower top.

### PARTS LIST NOTES:

- 1. Items listed are required for complete guyed towers.
- 2. Base and anchor foundations listed refer to standard foundation designations.
- 3. Guys provided with each standard tower are based on level ground conditions with an additional 6% length.
- 4. Rev G anchor grounding (AGK1GGX) and base grounding (BGK3GGX) are included with the tower material.
- 5. Assembly drawings and a safety package (P/N: ACWS) are included with each tower.
- 6. Parts lists are subject to change based on availability or revised design criteria.

FOR FOUNDATION INFORMATION, PLEASE SEE PAGES 93-97. FOR GENERAL INSTALLATION INFORMATION, PLEASE SEE PAGES 147-153.



# GUYED TOWERS - 45GSR

### **STANDARD DESIGN - 45GSR** 90MPH REV. G







40' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R040





**50' ROHN 45GSR** All parts shown in table are included when ordering Part No: 45GSR90R050



	60'TOWER • 90.4 OR 66.7	
55'	73' 1/4" EHS (665#) 48'	
P	/N:45GSR90R060	

TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCHO		00	
	3	1	1	FB1G	ANCH AB2	-	
GUYS & CONNECTIONS INCLUDED	1/4EHS	BG2144	3/8THH	1/2TE	1/2TBE&J T		BSAFET
	250'	6	6	3			3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.	5/.75		
	3	1	3	3			

60' ROHN 45GSR

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All parts shown in table are included when ordering Part No: 45GSR90R060

65′ 35′	70'TOWER (86.5) OR [64.9 (65.9) (65.7) (65.7) (65.7) (65.7) (65.7) (65.7) (65.7) (55.7)				
P/N:45GSR90R070					

	4500000	45GSR10	4500000	GA45GD	FDNS		
TOWER PARTS INCLUDED	45GSR20		45GSRSB	GA45GD	BASE	ANCHOR	
	3	1	1	2	FB1G	AB2	
GUYS & CONNECTIONS	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBS	AFETY	
INCLUDED	500'	12	12	6		3	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75			
	3	1	3	3			

**70' ROHN 45GSR** 

All parts shown in table are included when ordering Part No: 45GSR90R070

80' ROHN 45GSR

All parts shown in table

are included when ordering Part No: 45GSR90R080

80'TOWER (82.6) OR 62.9 75 1/4" EHS (665#) 35 P/N:45GSR90R080

	TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD	FDNS BASE ANC	
		4	1	2	FB1G AI	32
	GUYS &	1/4EHS	BG2144	3/8THH	1/2TBE&	J TBSAFETY
	CONNECTIONS INCLUDED	550'	12	12	6	3
	ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.7	5
	INCLUDED	3	1	3	3	



### **STANDARD DESIGN - 45GSR** 90MPH REV. G





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	4500000	45GSR10	45GSRSB	GA45GD	FUNS		
TOWER PARTS INCLUDED	45GSR20			GA45GD	BASE	ANCHOR	
	4	1	1	2	FB1G	AB2	
GUYS & CONNECTIONS INCLUDED	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBS	AFETY	
	625'	12	12	6		3	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75			
	3	1	3	3			

TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH	OR
	5	1	2	FB1G AB2	2
GUYS & CONNECTIONS INCLUDED	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBSAFET
	725'	12	12	6	3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	
	3	1	3	3	



90' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R090

### 100' ROHN 45GSR

Ϋ́

All parts shown in table are included when ordering Part No: 45GSR90R100

TOWER PARTS INCLUDED	45GSR20	45GSR10	45GSRSB	GA45GD		DNS ANCHOR
	5	1	1	3	FB1G	AB2
GUYS &	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBS	AFETY
CONNECTIONS INCLUDED	1100'	18	18	9		3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75		
	3	1	3	3		

110' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR90R110

TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH		OR
	6	1	3	FB1G	AB2	2
GUYS & CONNECTIONS INCLUDED	1/4EHS	BG2144	3/8THH	1/2TBE&J		TBSAFETY
	1200'	18	18	9		3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.	5/.75	
	3	1	3	3	5	

120' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R120

130' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R130

	4500000	45GSR20 45GSR10 45GSRSB GA		GA45GD	F	DNS
TOWER PARTS INCLUDED	45GSR20	45G5R10	45GSRSB	GA45GD	BASE	ANCHOR
	6	1	1	3	FB1G	AB2
GUYS & CONNECTIONS	1/4EHS	142265	BG2144	BG2146		
	800'	500'	12	6		
INCLUDED	3/8THH	7/16THH	5/8TBE&J	1/2TBE&J		
	12	6	3	6		
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	TBS	AFETY
GROUNDING INCLUDED	3	1	3	3		3

# GUYED TOWERS - 45GSR

FDNS

BASE ANCHOR

3

AB2

FB1G

GA45GD

4

BG2146

6

1/2TBE&J

9

BGK3GGX CPC.5/.75 TBSAFETY

3

45GSRSB

1

BG2144

18

5/8TBE&J

3

3

### **STANDARD DESIGN - 45GSR** 90MPH REV. G



140' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R140

TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH	OR
	7	1	3	FB1G AB2	2
GUYS& CONNECTIONS INCLUDED	1/4EHS	142265	BG2144	BG2146	
	875'	550'	12	6	
	3/8THH	7/16THH	5/8TBE&J	1/2TBE&J	
	12	6	3	6	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	TBSAFETY
	3	1	3	3	3

45GSR10

1

45GSR20

7



128

140' TOWER 63.5 ) OR 48.9



5 (1,120#) 1/4" EHS (665#) 120' 35 120' 35 120' 35890R150			1/4EHS	142265	
		GUYS & CONNECTIONS	1350'	600'	
		INCLUDED	3/8THH	7/16THH	
			18	6	
			GAC3455TOP	AGK1GGX	
		GROUNDING INCLUDED	3	1	

TOWER PARTS

INCLUDED

C

150' ROHN 45GSR
All parts shown in table
are included when ordering
Part No: 45GSR90R150



170'TOWER

158′

125

85

45

- 59.9 OR 46.4

	45GSR20	5GSR20 45GSRSB GA4		FDNS	
TOWER PARTS	40001120	4000100	0,11000	BASE ANCH	OR
INCLUDED	8	1	4	FB1G AB2	2
	1/4EHS	142265	BG2144	BG2146	
GUYS & CONNECTIONS	1450'	625'	18	6	
INCLUDED	3/8THH	7/16THH	5/8TBE&J	1/2TBE&J	
	18	6	3	9	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	TBSAFETY
	3	1	3	3	3

### 160' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR90R160

	208'	INC
25' 35'	185′ <b>–</b> 5/16″ EHS (1,120#)	
	160' 1/4" EHS (665#)	GL CONN
15'	143'	INCI
P/	/N:45GSR90R170	

	45GSR20	45GSR10	45GSRSB	GA45GD		DNS	
TOWER PARTS					BASE	ANCHOR	
INCLUDED	8	1	1	4	FB1G	AB3	
	1/4EHS	142265	BG2144	BG2146			
GUYS & CONNECTIONS	1575'	675'	18	6			
INCLUDED	3/8THH	7/16THH	5/8TBE&J	TBSAFETY			
	18	6	12	3			
ANCHORS &	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25			
GROUNDING INCLUDED	3	1	3	3			

170' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R170



### **STANDARD DESIGN - 45GSR** 90MPH REV. G



180' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R180

TOWER PARTS	45GSR20	45GSRSB	GA45GD		DNS ANCHO	סר
INCLUDED	9	1	4	FB1G	AB3	חי
	9	I	4	гыG	ADS	
	1/4EHS	142265	BG2144	BG2146		
GUYS & CONNECTIONS	1675'	725'	18	6		
INCLUDED	3/8THH	7/16THH	5/8TBE&J	TBSA	-ETY	
	18	18 6 12		3	;	
ANCHORS &	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1	<mark>/1.25</mark>	
GROUNDING INCLUDED	3	1	3	3		



180'TOWER

P/N:45GSR90R180

190'TOWER

221

197

168'

135

95

55

58.5 OR 45.7

5/16" EHS (1,120#)

1/4" EHS (665#)

144

	45GSR20	45GSR10	45GSRSB	GA45GD	FDNS		
TOWER PARTS	40001120	43031(10	4000100	CATIOCE	BASE	ANCHOR	
INCLUDED	9	1	1	5	FB1G	AB3	
	1/4EHS	142265	BG2144	BG2146			
GUYS & CONNECTIONS	2300'	750'	24	6			
INCLUDED	3/8THH	7/16THH	5/8TBE&J	TBSAFETY			
	24	6	15	3			
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25			
INCLUDED	3	1	3	3			

190' ROHN 45GS
----------------

All parts shown in table are included when ordering Part No: 45GSR90R190



	45GSR20	SR20 45GSRSB GA45GD		GA45GD APL4A		DNS
TOWER PARTS	45G5K20				BASE	ANCHOR
INCLUDED	10	1	5	1	FB1G	AB3
	1/4EHS	142265	BG2144	BG2146		
GUYS & CONNECTIONS	2425'	800'	24	6		
INCLUDED	3/8THH	7/16THH	5/8TBE&J	TBSAFETY		
	24	6	15	3		
ANCHORS &	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25		
GROUNDING INCLUDED	3	1	3	3		

#### 200' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR90R200



6

Products LLC

TOWER PARTS	45GSR20	45GSRSB	GA45GD	APL4A		
INCLUDED	44	4	r.			ANCHOR
	11	1	5	1	FB1G	AB3
	1/4EHS	142265	BG2144	BG2146		
GUYS & CONNECTIONS	2725'	875'	24	6		
INCLUDED	3/8THH	7/16THH	5/8TBE&J	TBSAFETY		
	24	6	15	3		
ANCHORS &	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25		
GROUNDING INCLUDED	3	1	3	3		

220' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR90R220

# GUYED TOWERS - 45GSR-

INNER OUTER ANCHOR ANCHOR

AB2

6

36

3

6

AB2

### **STANDARD DESIGN - 45GSR** 90MPH REV. G

6

APL4A

1

BG2144

30

5/8TBE&J

3

3

36

9

2

6

1/2TBE&J CPC.5/.75 CPC1/1.25

3

AGK1GGX BGK3GGX TBSAFETY

3

BASE

FB1G

BG2146

6

1/2TBE&J

15

BGK3GGX CPC.5/.75 TBSAFETY

6

45GSR20 45GSRSB GA45GD

1

GAC3455TOP AGK1GGX

142265

950'

7/16THH

6

2

12

1/4EHS

2850'

3/8THH

30

6

4050'

7/16THH

6

3



240' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R240

260' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR90R260

TOWER PARTS	45GSR20	45GSRSB	SRSB GA45GD AP		APL4/	A BASE		NER CHOR	OUTER ANCHOF
INCLUDED	13	1	6		1	FB1G	A	B2	AB2
	1/4EHS	1422	65	BG2144		BG2146			
GUYS & CONNECTIONS	3250'	1050	1050'		30	6			
INCLUDED	3/8THH	7/16T	ΗН	5/8TBE&J 1/2TBE&J					
	30	6			3	15			
ANCHORS &	GAC3455TC	P AGK10	GX	BGK	GK3GGX CPC.5/.75		.75	TBS	AFETY
GROUNDING INCLUDED	6	2			3	6			6

#### 280' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR90R280

300'	RO	ΗN	45	GSF	R

All parts shown in table are included when ordering Part No: 45GSR90R300



INCLOBED	13		1	6	5	1	FB10	4   ف	AB2	AB2
	1/4EHS		14226		BG2144		BG2146			
GUYS & CONNECTIONS	3250'		1050'		30		6			
INCLUDED	3/8THH	1	7/16TH		5/8TBE&J		1/2TB	E&J		
	30		6			3	15	5		
ANCHORS &	GAC3455TC	OP	AGK1GGX		BGK3GGX		CPC.5/.75		TBS	AFETY
GROUNDING INCLUDED	6		2			3	6			6
TOWER PARTS	45GSR20	450	GSRSB	GA4	5GD	APL4A	A BASI		NER CHOR	OUTER ANCHOR
INCLUDED	14		1		7	1	FB10	G A	B2	AB3
	1/4EHS		1422	65	BG	2144	BG2 <sup>2</sup>	146	3/	8THH
GUYS &	4050'		11.25	,		26	6			36

1125'

5/8TBE&J

12

3

GAC3455TOP GAC5655TOP



240'TOWFR

298

274'

247

150

122'

102'

P/N:45GSR90R240

260'TOWER (51.1) OR 41.8

-5/16" EHS (1,120#)

112' 208' P/N:45GSR90R260

1/4" EHS (665#)

324

299'

272

175'

147'

,1-. 125′¥

228

195

155

115

75

35

248 215

175

135

95

55

52.5 OR 42.6

96 192

5/16" EHS (1,120#)

I/4" EHS (665#)

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

С



TOWER PARTS	45GSR20 4	45GSRSB	GSRSB GA45		APL4	A BASE	INNER ANCHOR		OUTER ANCHOR
INCLUDED	15	1	-	7	1	FB1G	AE	32	AB3
GUYS & CONNECTIONS	1/4EHS	1422	65	BG2144		BG2146		3/8THH	
	4525'	1200	)'	36		6		36	
INCLUDED	7/16THH	5/8TB	E&J	1/2TBE&J		CPC.5/.	.75	СРС	21/1.25
	6	12			9	3			3
	GAC3455TC	P GAC565	5TOP	AGK1GGX		BGK3GGX		TBS	AFETY
GROUNDING INCLUDED				6					

### **STANDARD DESIGN - 45GSR** 90MPH REV. G



320' ROHN 45GSR All parts shown in table are included

when ordering Part No: 45GSR90R320

TOWER PARTS	45GSR20	45GSRSB	GA45GD		APL4A	A BASE	INN ANCI		OUTER ANCHOR
INCLUDED	16	1	8	3	1	FB1G	AB	32	AB3
GUYS & CONNECTIONS INCLUDED	1/4EHS	1422	65	BG2144		BG2146		3/8THH	
	5450'	1275	5'	42		6		42	
	7/16THH	5/8TB	E&J	1/2TBE&J		CPC.5/.75		5 CPC1/1.25	
	6	12		,	12	3			3
ANCHORS &	GAC3455TC	OP GAC565	STOP	AGK1GGX		BGK3GGX			
GROUNDING INCLUDED	3	3		2		3		6	



All parts shown in table are included when ordering Part No: 45GSR90R340

TOWER PARTS	45GSR20	45GSRSB		GA45GD		APL4	A BASE	inî Anc	NER HOR	OUTER ANCHOR
INCLUDED	17		1 8		3	1	FB1G	A	B2	AB3
GUYS & CONNECTIONS	1/4EHS		14220	142265 E		2144	BG214	16	3/8THH	
	5975'		1375	5'		12	6		42	
INCLUDED	7/16THH		5/8TBE	BE&J 1/2		BE&J	CPC.5/.75		CPO	C1/1.25
	6		12		12		3		3	
ANCHORS & GROUNDING INCLUDED	GAC3455TC	OP	GAC5655TOP		AGK1GGX		BGK3GGX			
	3		3			2	3			6







# GUYED TOWERS - 45GSR

FDNS

BASE ANCHOR

TBSAFETY

3

AB2

FB2G

GA45GD

1

1/2TBE&J

3

3

45GSRSB

1

3/8THH

6

3

BGK3GGX CPC.5/.75

### STANDARD DESIGN - 45GSR 110MPH REV. G





45GSR10

1

BG2144

6

1

GAC3455TOP AGK1GGX

45GSR20

2

1/4EHS

200'

3

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

45gsr

40' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R040





TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH		OR
	3	1	1	FB2G AB2		
GUYS & CONNECTIONS INCLUDED	1/4EHS	BG2144	3/8THH	1/2TBE&J		TBSAFETY
	250'	6	6	3		3
ANCHORS &	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5	/.75	
GROUNDING INCLUDED	3	1	3	3		

50' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR110R050

**60' ROHN 45GSR** All parts shown in table

are included when ordering Part No: 45GSR110R060



P/N: 45GSR110R060

	4500000	4500040	4500000	GA45GD	FDNS		
TOWER PARTS	45GSR20	45GSR10	45GSRSB	GA45GD	BASE	ANCHOR	
INCLUDED	3	1	1	2	FB2G	AB2	
GUYS & CONNECTIONS	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBS	AFETY	
INCLUDED	500'	12	12	6		3	
	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75			
GROUNDING INCLUDED	3	1	3	3			

7	0′	RC	н	N 4	50	<b>G S R</b>	
All	ра	rts	sh	own	in	table	2

are included when ordering Part No: 45GSR110R070

80' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R080

75' 35'	80'TOWER (52.7) OR 35.5 99' 1/4"EHS (665#) 73'
	64′
P/I	N:45GSR110R080

	TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH	HOR
		4	1	2	FB2G AB	2
	GUYS & CONNECTIONS	1/4EHS	BG2144	3/8THH	1/2TBE&J	TBSAFETY
	INCLUDED	550'	12	12	6	3
	ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	5
	INCLUDED	3	1	3	3	



### STANDARD DESIGN - 45GSR 110MPH REV. G



90' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R090



TOWER PARTS	45GSR20	45GSRSB	GA45GD	FI BASE	DNS ANCH	OR
INCLUDED	5	1	2	FB2G	AB2	2
GUYS & CONNECTIONS	1/4EHS	142265	3/8THH	1/2TB	E&J	5/8TBE&J
	325'	400'	6	3		3
INCLUDED	7/16THH	BG2144	BG2146	TBSA	FETY	
	6	6	6	3		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.	5/.75	
	3	1	3	3		

45GSR10

1

142265

425'

BG2144

12

1

GAC3455TOP AGK1GGX

45GSRSB GA45GD

BGK3GGX CPC.5/.75

3

6

TBSAFETY

3

3

1

3/8THH

12

BG2146

6

3

45GSR20

5

1/4EHS

650'

7/16THH

6

3

TOWER PARTS

INCLUDED

**GUY WIRE &** 

CONNECTION

INCLUDED

**ANCHORS &** 

GROUNDING INCLUDED

100' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR110R100

FDNS

BASE ANCHOR

3

J

FB2G AB2

1/2TBE&J 5/8TBE&J

110' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R110



90' TOWER

111'

85'

P/N:45GSR110R090

100'TOWER 44.5 ) OR 32.6

5/16"EHS (1,120#)

1/4"EHS (665#)

80

119

97

P/N:45GSR110R100

110'TOWER

132

ng

P/N:45GSR110R110

(43.0) OR 31.7

5/16"EHS (1,120#)

1/4" EHS (665#)

85

45

55

98

65′

35

(49.4) OR 33.0

1/4" EHS (665#)

TOWER PARTS	45GSR20	45GSRSB	GA45GD		DNS ANCH	OR	
INCLUDED	6	1	3	FB2G	AB2	2	
GUYS & CONNECTIONS	1/4EHS	142265	3/8THH	1/2TB	8E&J	5/8	BTBE&
	725'	475'	12	6			3
INCLUDED	7/16THH	BG2144	BG2146	TBSAFETY			
	6	12	6	3			
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.	5/.75		
	3	1	3	3			

#### 120' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR110R120



# GUYED TOWERS - 45GSR-

### **STANDARD DESIGN - 45GSR** 110MPH REV. G



130' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR110R130

	45GSR20	0 45GSR10 45GSRSB G		GA45GD		DNS
TOWER PARTS				0.11002	BASE	ANCHOR
INCLUDED	6	1	1	3	FB2G	AB2
GUYS & CONNECTIONS	1/4EHS	142265	3/8THH	1/2TBE8	J 5/8	TBE&J
	800'	500'	12	6		3
INCLUDED	7/16THH	BG2144	BG2146	TBSAFET	Υ	,
	6	12	6	3		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.7	<mark>75</mark>	
	3	1	3	3		



C



TOWER PARTS INCLUDED	45GSR20	45GSRSB	GA45GD FDNS BASE ANCH			OR	
	7	1	3	FB2G	AB2	2	
GUYS & CONNECTIONS	1/4EHS	142265	3/8THH	1/2TE	BE&J	5/8TBE&J	
	875'	550'	12	6			3
INCLUDED	7/16THH	BG2144	BG2146	TBSAFETY			
	6	12	6	3			
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75			
	3	1	3	3			

#### 140' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R140



TOWER PARTS	45GSR20	45GSR10	45GSRSB	GA45GD	E BASE	DNS ANCHOR
INCLUDED	7	1	1 4 F		FB2G	AB3
	1/4EHS	142265	3/8THH	5/8TBE&	J	
GUYS & CONNECTIONS	1350'	600'	18	12		
INCLUDED	7/16THH	BG2144	BG2146	TBSAFET	Υ	
	6	18	6	3		
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.2	25	
INCLUDED	3	1	3	3		

#### 150' ROHN 45GSR All parts shown in table

are included when ordering Part No: 45GSR110R150

160'TOWER 37.5 OR 28.2 148′ 96 115 5/16" EHS (1,120#) 172 75 I/4" EHS (665#) 148 133 35 128 P/N:45GSR110R160

	45GSR20 45GSRSB		GA45GD	FDNS		
TOWER PARTS	43031120	4565856	0/(4000	BASE A	ANCHOR	
INCLUDED	8	1	1 4		AB3	
	1/4EHS	142265	3/8THH	5/8TBE	E&J	
GUYS & CONNECTIONS	1450'	625'	18 12			
INCLUDED	7/16THH BG2144 BG2146 T		TBSAF	ETY		
	6	18	6	3		
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/	<mark>1.25</mark>	
INCLUDED	3	1	3	3		

#### 160' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R160



# SOLID ROD

170' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R170

**FDNS** 

BASE ANCHOR

AB3

FB2G

45GSRSB GA45GD

1

3/8THH

24

BG2146

6

3

5

5/8TBE&J

15

TBSAFETY

3

3

	4500000	4500040	4500000		FI	DNS
TOWER PARTS	45GSR20	45GSR10	45GSRSB	GA45GD	BASE	ANCHOR
INCLUDED	8	1	1	4	FB2G	AB3
	1/4EHS	142265	3/8THH	5/8TBE&	J	
GUYS & CONNECTIONS	1575'	675'	18	12		
INCLUDED	7/16THH	BG2144	BG2146	TBSAFET	ΓY	
	6	18	6	3		
ANCHORS &	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.2	25	
GROUNDING INCLUDED	3	1	3	3		

**STANDARD DESIGN - 45GSR** 110MPH REV. G



180' TOWER 35.7 OR 27.3

197′

P/N:45GSR110R180

190'TOWER

-35.1 OR 26.9

1/4" EHS (665#)

144'

168

135

95

55

178

	TOWER PARTS	ARTS 45GSR20 45GSRSB		GA45GD	FDNS BASE ANCH	IOR
	INCLUDED	9	1	4	FB2G AB	3
		1/4EHS	142265	3/8THH	5/8TBE&J	
	GUYS & CONNECTIONS	1675'	725'	18	12	
	INCLUDED	7/16THH	BG2144	BG2146	TBSAFETY	ſ
		6	18	6	3	
1	ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25	
	INCLUDED	3	1	3	3	

45GSR20

9

1/4EHS

2300'

7/16THH

6

3

45GSR10

1

142265

750'

BG2144

24

1

GAC5655TOP AGK1GGX BGK3GGX CPC1/1.25

180'	ROHN	45GSR

All parts shown in table are included when ordering Part No: 45GSR110R180

190' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R190

R

200' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R200

145′	234′
105′	210' <b>5/16" EHS</b> (1,120#)
65′	185' ¥ 165' 1/4" EHS (665#)
35′	156'
	152'
D	/N:45GSR110R190
F/	
F/	
F/	
F7	



	1500000		5GSRSB GA45				FDNS	
TOWER PARTS	40G3R20	40	GOROD	GA4	JGD	APL4A	BASE	ANCHC
INCLUDED	10	1		5	5	1	FB2G	AB4
	1/4EHS		142265		3/8THH		5/8TBE&J	
GUYS & CONNECTIONS	2425'		800'		24		15	
INCLUDED	7/16THH		BG2144		BG2146		TBSAFETY	
	6		24			6	3	5
ANCHORS & GROUNDING	GAC5655TOP		AGK1GGX		BGK3GGX		X CPC1/1.2	
INCLUDED	3		1			3	3	;

1.1	Phone (309) 566-3000 • Fax (309) 566-3079 • www.rohnnet.com	
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-	ANCHORS &
	GROUNDING
	INCLUDED

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

### **STANDARD DESIGN - 45GSR** 110MPH REV. G



220' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R220

		_							
TOWER PARTS	45GSR20	45	GSRSB	GA4	5GD	APL4A	PL4A BASE AN		
							DAJL	ANCH	
INCLUDED	11		1	5	•	1	FB2G	2G AB4	
	1/4EHS	;	1422	65	3/3	8THH	5/8TE	8E&J	
GUYS & CONNECTIONS	2725'		875	;	24		15		
INCLUDED	7/16THF	1	BG21	44	BG2146		TBSAFETY		
	6		24		6		3		
ANCHORS &	GAC5655T	OP	AGK10	GX	BGł	<3GGX	CPC1	/1.25	
GROUNDING INCLUDED	3		1			3	3		



240'TOWER -32.2 OR 25.1

5/16" EHS (1,120#)

1/4" EHS (665#)

192 96' P/N:45GSR110R240

298

274

247

150

122'

102'

228′ 195

155

115

75'

35

240' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R240

TOWER PARTS	45GSR20 4	5GSRSB GA4		ISGD APL4A		A BASE INI		NER HOR	OUTER ANCHOR
INCLUDED	12	1	6	6	1	FB2G	A	32	AB3
	1/4EHS	1422	65	BG	2144	BG214	6	3/8	зтнн
GUYS & CONNECTIONS	2850'	950	,	30		6		30	
INCLUDED	7/16THH	5/8TBI	E&J	1/2TBE&J		CPC.5/.	.75	СРС	01/1.25
	6	9			9	3			3
ANCHORS & GROUNDING	GAC3455TC	OP GAC565	5TOP	AGK	1GGX	BGK3G	GX	TBS	AFETY
INCLUDED	3	3			2	3			6

	260' TOWER
248′	← 31.0 OR 24.5
215′	324' -5/16" EHS
175′	299' (1,120#)
135′	272'4 1/4" EHS (665#)
95′	175'
55'	147'
	112' 208'
P/	N:45GSR110R260

IOWER PARIS	45GSR20	45GSRSB	GA4	5GD	APL4	A BASE	BASE INN		OUTER ANCHOR
INCLUDED	13	1	(	6	1	FB2G	A	32	AB3
GUYS & CONNECTIONS INCLUDED	1/4EHS	1422	65	BG	2144	BG2146		3/8THH	
	3250'	1050	)'	3	30	6		30	
	7/16THH	5/8TBI	E&J	1/2T	BE&J	CPC.5/	.75	СРС	21/1.25
	6	9		9		3		3	
	GAC3455TC	OP GAC565	5TOP	AGK	1GGX	BGK3G	GΧ	TBS	AFETY
GROUNDING INCLUDED	3	3			2	3			6

### 260' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR110R260

	280'TOWER
268′	← 30.4) OR 24.0
235′	349' -5/16" EHS
195′	325' (1,120#)
155′	237 ¥ 1/4" EHS 272' (665#)
115′	
75'	150'
35′	102'1 96' 224'
P/I	N:45GSR110R280

TOWER PARTS	45GSR20 4	15GSRSB	GA4	5GD	APL4A	A BASE	BASE INN ANC		OUTER ANCHOR
INCLUDED	14	1	-	7	1	FB2G	AE	32	AB4
GUYS & CONNECTIONS INCLUDED	1/4EHS	1422	142265		BG2144		6	3/8THH	
	4050'	1125	5'	36		6		36	
	7/16THH	5/8TBI	5/8TBE&J		BE&J	CPC.5/.	.75	СРС	21/1.25
	6	12			9	3			3
ANCHORS &	GAC3455TC	P GAC565	5TOP	AGK	1GGX	BGK3GGX		TBSAFETY	
GROUNDING INCLUDED	3	3			2	3			6

280' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR110R280





**300' ROHN 45GSR** All parts shown in table are included when ordering Part No: 45GSR110R300

IOWER PARIS	45GSR20	45GSRSB	GSRSB GA45		APL4A	A BASE	INNER ANCHOR		OUTER ANCHOR
INCLUDED	15	1	-	7	1	FB2G	A	32	AB4
GUYS & CONNECTIONS INCLUDED	1/4EHS	1422	65	BG	2144	BG2146		3/8THH	
	3400'	2300	)'	3	30		12		30
	7/16THH	5/8TBI	E&J	1/2TBE&J		CPC.5/	.75	СРС	C1/1.25
	12	12			9	3			3
ANCHORS &	GAC3455TC	OP GAC565	STOP	AGK	1GGX	BGK3GGX		TBSAFETY	
GROUNDING INCLUDED	3	3			2	3			6

**STANDARD DESIGN - 45GSR** 110MPH REV. G



All parts shown in table are included when ordering Part No: 45GSR110R320

TOWER PARTS	45GSR20	45GSR	SB GA4	GA45GD		APL4A			NER HOR	OUTER ANCHOR
INCLUDED	15	1	-	7 1		I	FB20	g ae	33	AB4
GUYS & CONNECTIONS INCLUDED	1/4EHS	142265	142261	BG2 <sup>-</sup>	144	BG2′	146 E	3G21	47	5/8S
	4225'	1200'	1300'	300' 36		6	6			3
	1/2THH :	3/8THH	7/16TH	H 5/8	TBE	&J	5/8S	6 48	5GSF	R20L82*
	6	36	6		24		3			1
ANCHORS &	GAC56551	OP AGH	(1GGX	BGK	3GG	ах с	PC1/	1.25	TBS	AFETY
GROUNDING INCLUDED	6		2		3		6			6

	340' TOWER
328′	← 28.1 OR 22.6
288′-	426' 3/8"EHS (1,540#)
255′	396' 5/16" EHS (1,120#)
215′	3/3' 3/7' / 1/4" EHS 3/7' / (665#)
175′	34/ (005#)
135′	227'
95'	197/
55'-	154' 144' 272'
P/N	N:45GSR110R340

300'TOWER

375

345'

322'

297

175

147'

125

P/N:45GSR110R300

320' TOWER - 28.9 OR 23.0

371'

348'

322

201

133

P/N:45GSR110R320

3/8"EHS (1,540#)

–5/16" EHS (1,120#)

1/4" EHS (665#)

128 256

288' 248

215′

175′

135'

95'

55'

308' 401

268

235'

195′

155'

115'

75' 148 35′

-29.7 OR 23.5

- 5/16" EHS (1,120#)

1/4" EHS (665#)

112 240'

	TOWER PARTS	45GSR20	45GSR	SB	GA4	5GD	AF	PL4A	BAS	SE /	INNE ANCH	R OR	OUTER ANCHOR
	INCLUDED	16	1		7	7		1	FB2	<u>2</u> G	AB3	3	AB4
	GUYS & CONNECTIONS INCLUDED	1/4EHS	142265	14:	2261	BG2 <sup>,</sup>	144	BG	2146	BG	6214	7	5/8S
		4700'	1275'	13	375'	36	36 6			6		3	
		1/2THH	3/8THH	7/1	6THF	H 5/8	TBE	&J	5/85	3	45G	SR	20L82*
		6	36		6		24		3				1
	ANCHORS &	GAC5655T	OP AG	(10	GX	BGK	3G	GX	CPC1	/1.	25 T	BS	AFETY
	GROUNDING INCLUDED	6		2			3		6	6			6

\* Guy lug sections required for 3/8" guys.

340' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR110R340



# GUYED TOWERS - 45GSR

**FDNS** 

BASE ANCHOR

TBSAFETY

3

AB2

FB2G

GA45GD

1

1/2TBE&J

3

CPC.5/.75

3

45GSRSB

1

3/8THH

6

BGK3GGX

3

## STANDARD DESIGN - 45GSR 130MPH REV. G





45GSR10

1

BG2144

6

1

GAC3455TOP AGK1GGX

45GSR20

2

1/4EHS

200'

3

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

45gsr

40' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R040

**50' ROHN 45GSR** 

All parts shown in table

are included when ordering

Part No: 45GSR90R050







60' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR90R060



	45GSR20	45GSR10	AFCODOD	GA45GD	FDNS		
TOWER PARTS	45G5R20	45G5K10	45GSRSB	GA45GD	BASE	ANCHOR	
INCLUDED	3	1	1	2	FB2G	AB2	
GUYS & CONNECTIONS	1/4EHS	142265	BG2144	BG2146	3/8	тнн	
	225'	275'	6	6		6	
INCLUDED	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY			
	6	3	3	3			
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75			
	3	1	3	3			

70' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R070



### **STANDARD DESIGN - 45GSR** 130MPH REV. G



80' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R080

	90' ROHN 45GSR
	All parts shown in table
ā	are included when ordering
	Part No: 45GSR130R090

TOWER PARTS	45GSR20	45GSRSB GA45G		FDNS BASE ANCH		OR
INCLUDED	4	1	2	FB2G AB2		2
GUYS & CONNECTIONS INCLUDED	1/4EHS	142265	BG2144	BG2	146	3/8THH
	250'	300'	6	6		6
	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY		
	6	3	3	3		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.	5/.75	
	3	1	3	3		



80'TOWER 31.5 OR 21.9

5/16" EHS (1,120#)

1/4" EHS (665#)

C

Products LLC

93

73'

P/N:45GSR130R080

68

35

	45GSR20	45GSR10	45GSRSB	GA45GD	F	DNS
TOWER PARTS	43031120	43031(10	4000000	0/4000	BASE	ANCHOR
INCLUDED	4	1	1	2	FB2G	AB2
GUYS & CONNECTIONS	1/4EHS	142265	BG2144	BG2146	3/8	тнн
	275'	350'	6	6		6
INCLUDED	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY		а
	6	3	3	3		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75		
	3	1	3	3		



TOWER PARTS	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH	OR
INCLUDED	5	1	2	FB2G AB2	2
GUYS & CONNECTIONS	1/4EHS	142265	BG2144	BG2146	3/8THH
	325'	400'	6	6	6
INCLUDED	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY	
	6	3	3	3	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK3GGX	CPC.5/.75	
	3	1	3	3	

### 100' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR130R100

110' ROHN 45GSR

All parts shown in table

are included when ordering Part No: 45GSR130R110



	45GSR20	45GSR10	R10 45GSRSB GA45GD		FDNS		
TOWER PARTS	45G5R20	45G5R10	4965856	GA45GD	BASE	ANCHOR	
INCLUDED	5	1	1	3	FB2G	AB3	
	1/4EHS	142265	BG2144	BG2146			
GUYS & CONNECTIONS INCLUDED	650'	425'	12	6	aı		
	3/8THH	7/16THH	5/8TBE&J	TBSAFETY			
	12	6	9	3			
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25			
INCLUDED	3	1	3	3			

# GUYED TOWERS - 45GSR-

### **STANDARD DESIGN - 45GSR** 130MPH REV. G



### 120' ROHN 45GSR All parts shown in table

are included when ordering Part No: 45GSR130R120

	4500000	4500D0D		F	FDNS		
TOWER PARTS	45G5R20	45GSRSB	GA45GD	BASE	ANCHOF		
INCLUDED	45GSR20     45GSRSB     GA45GD     BASE     ANCHO       6     1     3     FB2G     AB3       1/4EHS     142265     BG2144     BG2146       725'     475'     12     6       3/8THH     7/16THH     5/8TBE&J     TBSAFETY       12     6     9     3       GAC5655TOP     AGK1GGX     BGK3GGX     CPC1/1.25	AB3					
	1/4EHS	142265	BG2144	BG2	146		
GUYS & CONNECTIONS INCLUDED	725'	475'	12	6	6		
	3/8THH	7/16THH	5/8TBE&J TBSAFE		-ETY		
	12	6	9	3			
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK3GGX	CPC1	/1.25		
INCLUDED	3	1	3	3			



C





# 130' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR130R130



45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH	IOR
7	1	3	FB2G AB	3
1/4EHS	HS 142265 BG2144 BG21			
875'	550'	12	6	
3/8THH	7/16THH	5/8TBE&J	TBSAFETY	
12	6	9	3	
GAC5655TOP	AGK1GGX	BGK3GGX	CPC1/1.25	
3	1	3	3	
	7 1/4EHS 875' 3/8THH 12 GAC5655TOP	7 1   1/4EHS 142265   875' 550'   3/8THH 7/16THH   12 6   GAC5665TOP AGK1GGX	7     1     3       1/4EHS     142265     BG2144       875'     550'     12       3/8THH     7/16THH     5/8TBE&J       12     6     9       GAC5655TOP     AGK1GGX     BGK3GGX	45GSR20 45GSRSB GA45GD BASE ANCH   7 1 3 FB2G AB   1/4EHS 142265 BG2144 BG2146   875' 550' 12 6   3/8THH 7/16THH 5/8TBE&J TBSAFETY   12 6 9 3   GAC5655TOP AGK1GGX BGK3GGX CPC1/1.25

#### 140' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR130R140



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TOWER PARTS	45GSR20	45GSR10	45GSRSB	GA45GD		DNS ANCHOR		
INCLUDED	7	1	1	4	FB2G	AB4		
	1/4EHS	142265	BG2144	BG2146				
GUYS &	1350'	600'	18	6	1 A			
INCLUDED	3/8THH	7/16THH	3/4TBE&J	TBSAFETY		are F		
	18	6	12	3				
ANCHORS & GROUNDING	GAC5755TOP	AGK1GGX	BGK3GGX	CPC1.5/2				
INCLUDED	3	1	3	3				

150' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R150



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### **STANDARD DESIGN - 45GSR** 130MPH REV. G



160' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R160

170' ROHN 45GSR
All parts shown in table
are included when ordering

g Part No: 45GSR130R170

180' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R180

190' ROHN 45GSR

TOWER PARTS	45GSR20	45GSRSB	GA45GD	FDNS BASE ANCH	HOR
INCLUDED	8	Image: Constraint of the second se	4		
GUYS & CONNECTIONS	1/4EHS	142265	BG2144	BG2146	
	1450'	625'	18	6	
INCLUDED	3/8THH	7/16THH	3/4TBE&J	TBSAFETY	
	18	6	12	3	
ANCHORS &	GAC5755TOP	AGK1GGX	BGK3GGX	CPC1.5/2	
GROUNDING INCLUDED	3	1	3	3	



170' TOWER

208

185'

160

143

P/N:45GSR130R170

158

125

85

45

23.4 OR 17.3

5/16" EHS (1,120#)

1/4" EHS (665#)

136

	45GSR20	45GSR10	45GSRSB	GA45GD		DNS
TOWER PARTS	43031120	43631(10	4363135	CATIOCE	BASE	ANCHOR
INCLUDED	8	1	1	4	FB2G	AB4
	1/4EHS	142265	BG2144	BG2146		
GUYS & CONNECTIONS	1575'	675'	18	6		
INCLUDED	3/8THH	7/16THH	3/4TBE&J	TBSAFETY		
	18	6	12	3		
ANCHORS & GROUNDING	GAC5755TOP	AGK1GGX	BGK3GGX	CPC1.5/2		
INCLUDED	3	1	3	3		



TOWER PARTS	45GSR20	45GSRSB	5GSRSB GA45GD		HOR
INCLUDED	9	1	4	FB2G AE	34
	1/4EHS	142265	BG2144	BG2146	
GUYS & CONNECTIONS	1675'	725'	18	6	
INCLUDED	3/8THH	7/16THH	3/4TBE&J	TBSAFETY	/
	18	6	12	3	
ANCHORS & GROUNDING	GAC5755TOP	AGK1GGX	BGK3GGX	CPC1.5/2	2
INCLUDED	3	1	3	3	



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45GSR20	45GSR10	45GSRSB	GA45GD		DNS
					ANCHOR
9	1	1	5	FB2G	AB4
1/4EHS	142265	BG2144	BG2146		
2300'	750'	24	6		
3/8THH	7/16THH	3/4TBE&J	TBSAFETY		
24	6	15	3		
GAC5755TOP	AGK1GGX	BGK3GGX	CPC1.5/2		
3	1	3	3		
	9 1/4EHS 2300' 3/8THH 24 GAC5755TOP	9     1       1/4EHS     142265       2300'     750'       3/8THH     7/16THH       24     6       GAC5755TOP     AGK1GGX	9     1     1       1/4EHS     142265     BG2144       2300'     750'     24       3/8THH     7/16THH     3/4TBE&J       24     6     15       GAC5755TOP     AGK1GGX     BGK3GGX	9     1     1     5       1/4EHS     142265     BG2144     BG2146       2300'     750'     24     6       3/8THH     7/16THH     3/4TBE&J     TBSAFETY       24     6     15     3       GAC5755TOP     AGK1GGX     BGK3GGX     CPC1.5/2	45GSR20   45GSR10   45GSR5B   GA45GD   BASE     9   1   1   5   FB2G     1/4EHS   142265   BG2144   BG2146     2300'   750'   24   6     3/8THH   7/16THH   3/4TBE&J   TBSAFETY     24   6   15   3     GAC5755TOP   AGK1GGX   BGK3GGX   CPC1.5/2



# GUYED TOWERS - 45GSR

### STANDARD DESIGN - 45GSR 130MPH REV. G



200' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R200

	4500000	AFCODOD	GAA	5CD			FDNS		
TOWER PARTS	45GSR20 45GSRSB GA4		SGD AFL4A		BASE	ANCH	OR		
INCLUDED	10	1		5 1		FB2G	2G AB4		
GUYS & CONNECTIONS INCLUDED	1/4EHS	1422	65	BG2144 BG2		146			
	1725'	1500	)'	18		12			
	3/8THH	7/16TI	ΗН	3/47	3/4TBE&J TBSAFET		FETY		
	18	12		15		3			
ANCHORS &	GAC5755TC	P AGK10	GX	BGł	(3GGX	CPC1.5/2			
GROUNDING INCLUDED	3	1	1		3				



200' TOWER -(21.9) OR 16.2

> 5/16" EHS (1,120#)

- 1/4" EHS (665#)

160

247

218'

197'

177

P/N:45GSR130R200

164

188′

148

115

75

35

TOWER PARTS	45GSR20	45GSRSB	GA45GD AF		APL4A	BASE ANCH		IOR	
INCLUDED	10	1		4	1	FB2G	AB4	4	
	1/4EHS	HS 142265 142261		BG2	144	45G	SR201		
GUYS & CONNECTIONS INCLUDED	1950'	775	775'		875'		18		1
	BG2146	46 BG2147		7/16THH		1/2THH			
	6				6	6	i		
	3/8THH	3/8THH 5/8S 3/4TBE		TBE&J	TBSA	FETY			
	18	3			15	3			
ANCHORS & GROUNDING	GAC5755TC	OP AGK10	GX	BGł	<3GGX	CPC <sup>2</sup>	1.5/2		
INCLUDED	3	1			3	3			

220' ROHN 45GSR All parts shown in table

)L82\*

are included when ordering Part No: 45GSR130R220

240' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR130R240



TOWER PARTS	45GSR20 4	45GSRSB	GA4	5GD	APL4A	BASE	INNE ANCH	R OR	OUTER ANCHOR	
INCLUDED	11	1	4	5	1	FB2G	AB	3	AB4	
GUYS & CONNECTIONS INCLUDED	1/4EHS	1422	65	14	2261	BG2	144	450	3SR20L82*	
	1500'	1325	5'	ę	950'	18		8 1		
	BG2146	BG21	47	7/1	6THH	1/2T	HH			
	12	6			12	6	;			
	3/8THH	5/85	6	5/87	TBE&J	TBSA	FETY		a	
	18	3			18	6				
ANCHORS &	GAC5655TC	P AGK10	GX	BGł	<3GGX	CPC1	/1.25			
GROUNDING INCLUDED	6	2			3	6				

\* Guy lug section required for 3/8" guys.



260' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R260

BTHH5/8S5/8TBE&JTBSAFETY1831865655TOPAGK1GGXBGK3GGXCPC1/1.256236SR2045GSRSBGA45GDAPL4ABASEINNER<br/>ANCHOROUTER<br/>ANCHOR3161FB2GAB3AB5IEHS142265142261BG214445GSR20L82\*

280' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R280

300' ROHN 45GSR All parts shown in table are included when ordering Part No: 45GSR130R300

### STANDARD DESIGN - 45GSR 130MPH REV. G

TOWER PARTS	45GSR20 4	15GSRSB	GA4	A45GD APL4		BASE	INNE ANCH		OUTER ANCHOR	
INCLUDED	12	1	!	5	1	FB2G	AB	3	AB4	
	1/4EHS	14220	65	14	2261	BG2144		450	SR201.82*	
GUYS & CONNECTIONS INCLUDED	1750'	1500	)'	' 1050'		18			1	
	BG2146	BG21	47	7 7/16THH		1/2THH				
	12	6			12	6				
	3/8THH	3/8THH 5/8S 5/8TBE&J TE		TBSAFETY						
	18	3		18 6		;				
ANCHORS & GROUNDING	GAC5655TO	P AGK10	GX	BGł	(3GGX	CPC1	/1.25			
INCLUDED	6	2			3	6				

GUYED TOWERS - 45GSR-





TOWER PARTS	45GSR20	45GSRSB	GSRSB GA45		APL4A	BASE	INNE ANCH		OU <sup>.</sup> ANC
INCLUDED	13	1	1 6		1	FB2G	AB	3	AE
	1/4EHS	1422	65	142261		BG2144 4		45G	SR2
GUYS & CONNECTIONS INCLUDED	1200'	1200' 2800'		1125'		18			1
	BG2146	BG21	47	7/16THH		1/2THH			
	18	6		18		6			
	3/8THH	5/85	5	3/4TBE&J		TBSAFETY			
	18	3		21		6			
ANCHORS & GROUNDING	GAC5755TC	P AGK10	GX	BGł	<3GGX	CPC'	1.5/2		
INCLUDED	6	2			3	6			



TOWER PARTS	45GSR20	45GSRSB	GA45GD AP		APL4A	BASE	INNER ANCHOR		OUTER ANCHOR	
INCLUDED	14	1	(	6	1	FB3G	AB:	3	AB5	
	1/4EHS	1422	142265		142261		BG2144		45GSR20L82*	
GUYS & CONNECTIONS	1425'	3050	3050'		200'	18		1		
	BG2146	BG21	47	7/1	6THH	1/2THH				
INCLUDED	18	6			18	6				
	3/8THH	5/85	6	3/47	ГВЕ&Ј	TBSA	-ETY			
	18	3			21	6				
ANCHORS &	GAC5755TC	P AGK10	GX	BGł	<3GGX	CPC'	1.5/2			
GROUNDING INCLUDED	6	2			3	6				

\* Guy lug section required for 3/8" guys.



C

### **STANDARD DESIGN - 45GSR** 130MPH REV. G



320' ROHN 45GSR

All parts shown in table are included when ordering Part No: 45GSR130R320

TOWER PARTS	45GSR20 4	15GSRSB	GA4	A45GD APL4A		BASE	INNE ANCH		OUTER ANCHOR
INCLUDED	14	1	6 1		1	FB3G	AB:	3	AB5
	1/4EHS	1422	65	14	2261	BG2	BG2144		SR201.82*
GUYS & CONNECTIONS	1450'	2750	)'	2	475'	18			2
	BG2146	BG21	BG2147		6THH 1/2T		HH		
INCLUDED	18	12			18	12			
	3/8THH	HH 5/8S		3/4TBE&J TBSAF		FETY			
	18	6		24 6		5			
ANCHORS & GROUNDING	GAC5755TC	P AGK1G	GX	BGł	(3GGX	CPC'	1.5/2		
INCLUDED	6	2			3	6			



320'TOWER

400

371'

343'

318'

196

133

308

268

228

188

148

115

75 148

35'

17.8 OR 13.8

3/8" EHS (1,540#)

/4″ EHS (665#)

5/16'**'EHS** (1,120#)

256' 128 P/N:45GSR130R320

TOWER PARTS	45GSR20	45GSRSB	GSRSB GA45		APL4A	BASE INNE ANCH		R Or	OUTER ANCHOR
INCLUDED	14	1		5	1	FB3G	AB4	1	AB5
GUYS & CONNECTIONS INCLUDED	1/4EHS	1422	65	14	2261	BG2	144	450	SR201.82*
	1675'	1800	800'		800'	18	8		3
	BG2146	BG21	BG2147		6THH	1/2THH			
	12	18			12	18	3		
	3/8THH	5/85	6	3/41	FBE&J	TBSA	-ETY		
	18	9			24	6	5		
ANCHORS &	GAC5755TC	P AGK10	GX	BGł	(3GGX	CPC	1.5/2		
GROUNDING INCLUDED	6	2			3	6			

340' ROHN 45GSR

All parts shown in table

are included when ordering

Part No: 45GSR130R340

\* Guy lug section required for 3/8" guys.





### Refer to pages 63-65 for the following accessories that also fit the 45GSR tower:

- Pier Pin (3/4x12PP)
- Side Arm Bracket (SA253UA)
- Dish Mount (VY4311A2 & VY4311A)
- Face Mount (DM45G2 & DM454)
- Universal House Bracket (HBUTVRO)
- Torque Bar (TB45D)
- Guy Bracket (GA45GD)

- Anti-Climb Panels (VW913A)
- Work Platform (WP45G)
- Safety Ring (SR245)
- Climbing Harness (TTFBH-4D & TTFBH-C/P)
- Safety Cable Slider (TT-WG-500-W/SMC)
- Safety Cable System (See page 65 for P/N)

\* TOWERS MOUNTED ON THESE BASES MUST BE BRACKETED OR GUYED AT ALL TIMES. TEMPORARY STEEL GUYING MAY ALSO BE NECESSARY DURING INSTALLATION AND DISMANTLING.





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# STANDARD ANCHOR BLOCKS



### Refer to pages 95-96 for anchor rod installation angles.

Diada	Anch	or Dim	ensio	ns (in.)	Horizontal Bars	Stirrup Size	Concrete Vol.
Block	Α	В	С	D	(Qty. & Size)	& Spacing	Concrete Vol. (Cu. Yds.)
AB2	4'-0"	1' - 6″	4' - 0"	6'-0"	(5) #6 Bars, Top Layer (5) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″ O.C.	1.33 Per Block 4.0 Total for 3
AB3	6'-0"	1'-6″	3'- 0"	6'-0"	(4) #6 Bars, Top Layer (4) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″ O.C.	1.0 Per Block 3.0 Total for 3
AB4	6' - 0″	1'-6"	4' - 0"	9'-0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#4 @ 12″ O.C.	2.0 Per Block 6.0 Total for 3
AB5	8'-0"	2'-0"	3'- 0"	10'-0"	(4) #7 Bars, Top Layer (4) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4 @ 12″ O.C.	2.22 Per Block 6.7 Total for 3
AB6	8'-0"	2'-0"	4'-0"	10' - 0"	(5) #7 Bars, Top Layer (5) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4 @ 12″ O.C.	2.96 Per Block 8.9 Total for 3



# ANCHOR ROD INSTALLATION ANGLES



	45GS	R   90	МРН	
Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle
40′	GAC3455TOP	48	-	-
50′	GAC3455TOP	49	-	-
60′	GAC3455TOP	49	-	-
70′	GAC3455TOP	44	-	-
80′	GAC3455TOP	43	-	-
90′	GAC3455TOP	44	-	-
100′	GAC3455TOP	44	-	-
110′	GAC3455TOP	42	-	-
120′	GAC3455TOP	42	-	-
130′	GAC3455TOP	42	-	-
140′	GAC3455TOP	42	-	-
150′	GAC3455TOP	40	-	-
160′	GAC3455TOP	40	-	-
170′	GAC5655TOP	40	-	-
180′	GAC5655TOP	41	-	-
190′	GAC5655TOP	40	-	-
200′	GAC5655TOP	40	-	-
220′	GAC5655TOP	40	-	-
240′	GAC3455TOP	38	GAC3455TOP	46
260′	GAC3455TOP	40	GAC3455TOP	46
280′	GAC3455TOP	38	GAC5655TOP	44
300′	GAC3455TOP	40	GAC5655TOP	44
320′	GAC3455TOP	37	GAC5655TOP	45
340′	GAC3455TOP	38	GAC5655TOP	45



	45GSI	R   110	ОМРН	
Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle
40′	GAC3455TOP	48	-	-
50′	GAC3455TOP	49	-	-
60′	GAC3455TOP	49	-	-
70′	GAC3455TOP	43	-	-
80′	GAC3455TOP	42	-	-
90′	GAC3455TOP	43	-	-
100′	GAC3455TOP	44	-	-
110′	GAC3455TOP	41	-	-
120′	GAC3455TOP	41	-	-
130′	GAC3455TOP	41	-	-
140′	GAC3455TOP	42	-	-
150′	GAC5655TOP	40	-	-
160′	GAC5655TOP	40	-	-
170′	GAC5655TOP	40	-	-
180′	GAC5655TOP	40	-	-
190′	GAC5655TOP	40	-	-
200′	GAC5655TOP	40	-	-
220′	GAC5655TOP	40	-	-
240′	GAC3455TOP	39	GAC5655TOP	45
260′	GAC3455TOP	40	GAC5655TOP	45
280′	GAC3455TOP	39	GAC5655TOP	43
300′	GAC3455TOP	40	GAC5655TOP	44
320′	GAC5655TOP	40	GAC5655TOP	44
340′	GAC5655TOP	40	GAC5655TOP	44

### See the following page for 45GSR | 130mph anchor rod slopes.



# ANCHOR ROD INSTALLATION ANGLES





	45GSI	R   130	ОМРН	
Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle
40′	GAC3455TOP	48	-	-
50′	GAC3455TOP	48	-	-
60′	GAC3455TOP	45	-	-
70′	GAC3455TOP	42	-	-
80′	GAC3455TOP	42	-	-
90′	GAC3455TOP	43	-	-
100′	GAC3455TOP	43	-	-
110′	GAC5655TOP	40	-	-
120′	GAC5655TOP	40	-	-
130′	GAC5655TOP	41	-	-
140′	GAC5655TOP	41	-	-
150′	GAC5755TOP	39	-	-
160′	GAC5755TOP	38	-	-
170′	GAC5755TOP	39	-	-
180′	GAC5755TOP	39	-	-
190′	GAC5755TOP	37	-	-
200′	GAC5755TOP	38	-	-
220′	GAC5755TOP	38	-	-
240′	GAC5655TOP	40	GAC5655TOP	45
260′	GAC5655TOP	41	GAC5655TOP	45
280′	GAC5755TOP	38	GAC5755TOP	42
300′	GAC5755TOP	39	GAC5755TOP	43
320′	GAC5755TOP	37	GAC5655TOP	43
340′	GAC5755TOP	38	GAC5655TOP	43



# **STANDARD MAT FOUNDATION** FOR 45GSR TOWERS



Base	Mat Width (W)	Concrete Vol. (Cu. Yds.)
FB1G	4'-6"	3.0
FB2G	5'-3"	4.1
FB3G	6'-3″	5.8



# GUYED TOWERS - 45GSR -----

# STANDARD METEOROLOGICAL TOWERS

### **Complete Kit Includes:**

- Assembly and foundation drawings
- All necessary tower sections
- Tower short base
- All guy wire and connectors
- All guy anchors
- Base and anchor grounding kits



60MMET 4 Guy Elevations 1 Fixed Base Foundation 1 Anchor Radius

Boom	EPA/WT.	EPA/WT.
Height	(no ice)	(3/4" radial ice)
40 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.
50 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.
60 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.

ANSI/TIA-222-G 110 MPH - 3 Second Gust (No Ice) 50 MPH - 3 Second Gust (3/4" Radial Ice) Structure Class II Exposure Category C Topographic Category I



**80MMET** 5 Guy Elevations 1 Fixed Base Foundation 1 Anchor Radius

Boom		EPA/WT.
Height	(no ice)	(3/4" radial ice)
60 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.
		25.00 sq. ft. / 600 lbs.
80 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.

ANSI/TIA-222-G 110 MPH - 3 Second Gust (No Ice) 50 MPH - 3 Second Gust (3/4" Radial Ice) Structure Class II Exposure Category C Topographic Category I 318' 268' 218' 331' 158' 98' 48'

100MMET 6 Guy Elevations 1 Fixed Base Foundation 2 Anchor Radii

Boom	EPA/WT.	EPA/WT.
Height		(3/4" radial ice)
50 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.
75 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.
100 m	9.00 sq. ft. / 200 lbs.	25.00 sq. ft. / 600 lbs.

ANSI/TIA-222-G 110 MPH - 3 Second Gust (No Ice) 50 MPH - 3 Second Gust (3/4" Radial Ice) Structure Class II Exposure Category C Topographic Category I

### Tower design assumes (1) elevator track over height of structure.

98)- ROHN



# **STANDARD 45GSR** METEOROLOGICAL TOWER



Tower Height (m)	Guy Radius (ft.) 120° separation	Base Foundation No.	Anchor Foundation No.
60	156	FB2G	AB4
80	210	FB3G	AB5
100	106 / 264	FB3G	AB2 / AB6

Refer to page 288 for anchor rod details. FOR FOUNDATION INFORMATION, PLEASE SEE PAGES 94 & 97. FOR GENERAL INSTALLATION INFORMATION, PLEASE SEE PAGES 147-153.



TO BE EMBEDDED IN CONCRETE.



# **STANDARD 55G GUYED TOWER**









### **GENERAL USE**

The 55G lends itself to a wide variety of uses, particularly where unusual wind loading and height requirements exist. The 55G was designed to provide excellent strength in heights up to 400'.

### FEATURES

- Completely hot-dip galvanized after fabrication
- Built on a 17" equilateral triangle design
- High strength tubular legs joined by Zig-Zag<sup>®</sup> cross members
- Each section contains all required nuts and bolts shipped with section
- Continuous solid round steel bracing

### CAUTION

Mixing copies of ROHN towers with ROHN towers is dangerous and voids all engineering and warranty data supplied by ROHN. Materials used by others are not the same quality and have not been tested or engineered by ROHN. Mixing ROHN tower sections with non-ROHN products may cause tower failure or injury.

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 116 for ordering information.



# STANDARD 55G GUYED TOWER SECTIONS



\* Towers mounted on these bases must be bracketed or guyed at all times. Temporary steel guying may also be necessary during installation and dismantling.





This document is to serve as a guide for sizing and purchasing the 55G tower. Tower and foundation installations should be performed by qualified and experienced personnel using assembly drawings provided with each tower.

### **DESIGN NOTES:**

- 1. Tower designs are in accordance with ANSI/TIA-222-F and ANSI/TIA-222-G, Class I Structures, Topographic Category 1.
- 2. Design assumes towers are installed on level ground. Lower EPA values will apply for roof mounted towers or for sites located on unusual terrain.
- 3. Designs assume two 1/2" diameter lines on each tower face.
- 4. Anchor radius is from tower base to intersection of anchor rod with ground.
- 5. Guy chord lengths shown are based on level ground. Initial tensions for guys are shown in () in pounds at 60° Fahrenheit.
- 6. Antenna and mounts are assumed symmetrically placed at the tower top.

### PARTS LIST NOTES:

- 1. Items listed are required for complete guyed towers.
- 2. Base and anchor foundations listed refer to standard foundation designations.
- 3. Guys provided with each standard tower are based on level ground conditions with an additional 6% length.
- 4. Rev G anchor grounding (AGK1GGX) and base grounding (BGK2GGX) are included with the tower material.
- 5. Assembly drawings and a safety package (P/N: ACWS) are included with each tower.
- 6. Parts lists are subject to change based on availability or revised design criteria.

FOR FOUNDATION INFORMATION, PLEASE SEE PAGES 117-120. FOR GENERAL INSTALLATION INFORMATION, PLEASE SEE PAGES 147-153.



**FDNS** 

BASE ANCHOR

3

AB2

6

TBSAFETY 3/4x12PP

1

CB1G

6

# **STANDARD DESIGN - 55G** 90 MPH REV. G, 70 MPH REV. F



95'

47



APL55G

1

3/16EHS 1/4EHS BG2142 BG2144 5/16THH 3/8THH 1/2TBE&J

6

BGK2GGX

3

GA55GD

2

6

CPC.5/.75

3

BPC55G

1

1

425'

GAC3455TOP AGK1GGX

6

55G

11

325'

3

100' ROHN 55G All parts shown in table are included

when ordering Part No: 55G90R100

110' ROHN 55G
All parts shown in
table are included
when ordering
Part No: 55G90R110

120' ROHN 55G

All parts shown in

table are included

when ordering

Part No: 55G90R120











		6
rd	Products LLC	Ľ

table are included

when ordering

Part No: 55G90R140

	FFO		BPC55G			CAFEOI		FDNS			
TOWER PARTS	55G	DPV			APL55G	GA55GI	BA	SE	ANCHOR	ł	
INCLUDED	12 1		1	1		3	СВ	81G	AB2		<b>1</b> A
GUYS & CONNECTIONS	3/16EHS	1/4EHS	BG214	12	BG2144	5/16THH	3/8TI	ΗН	1/2TBE	&J	ta
INCLUDED	725'	475'	12		6	12	6		9		Pa
	GAC3455TC	OP AGK	1GGX	В	GK2GGX	CPC.5/.	75 TI	BSA	AFETY	3/4x	12PP
GROUNDING INCLUDED	3		1		3	3			3		1

0.11		4 9 9 / 9 9 1111 9 9 9
		130' ROHN 55G
2		All parts shown in
BE&J		table are included
		when ordering
<u> </u>		Part No: 55G90R130

TOWER PARTS	55G	BP	BPC55G		APL55G	GA55GD		FDNS BASE ANCHOR		2	
INCLUDED	13		1		1	3		CB1G	AB2		<b>1</b> ∧
GUYS &	3/16EHS 1	/4EHS	BG214	12	BG2144	5/16THH	3/8	зтнн	1/2TBE	&J	ta
CONNECTIONS INCLUDED	775'	500'	12		6	12		6	9		Pa
	GAC3455TO	PAGK	1GGX	В	GK2GGX	CPC.5/.	75	TBS	AFETY	3/4>	(12PP
GROUNDING INCLUDED	3		1	3		3		3			1

3		3	1	
GA55GD		DNS ANCHOR		
3	CB1G	AB2	-	<b>40' ROHN 55G</b> All parts shown in

BPC55G 55G APL55G TOWER PARTS INCLUDED 14 1 1 3/16EHS 1/4EHS BG2142 BG2144 5/16THH 3/8THH 1/2TBE&J GUYS & CONNECTIONS 825 12 6 12 6 9 550' INCLUDED **ANCHORS &** GAC3455TOP AGK1GGX BGK2GGX CPC.5/.75 TBSAFETY 3/4x12PP GROUNDING 3 1 3 3 3 1 INCLUDED

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

### STANDARD DESIGN - 55G 90MPH REV. G, 70MPH REV. F



TOWER PARTS	55G	BP	C55G	APL55G	GA55GI		ANCHOF	R	150
INCLUDED	15		1	1	3	CB2G	AB2		All I tabl
GUYS & CONNECTIONS	3/16EHS1	/4EHS	BG214	2 BG2144	5/16THH	3/8THH	1/2TBE	&J	WI Part
INCLUDED	900'	600'	12	6	12	6	9		rait
	GAC3455TO	P AGK	1GGX	BGK2GGX	CPC.5/.7	75 TBS	AFETY	3/4	1x12PP
GROUNDING INCLUDED	3		1	3	3		3		1

BPC55G

1

GAC3455TOP AGK1GGX BGK2GGX

1

12

625'

55G

16

950'

3

50' ROHN 55G II parts shown in ble are included when ordering rt No: 55G90R150

FDNS

BASE ANCHOR

3

9

3/4x12PP

1

CB2G AB2

6

CPC.5/.75 TBSAFETY

160' ROHN 55G
All parts shown in
table are included
when ordering
Part No: 55G90R160



155

115

75

37

165

124

83

42

175′

131

87

43

180'TOWER 32.8 OR 26.8

190'

166'

150

P/N: 55G90R180

190'TOWER 32.4 OR 26.5

232

201'

175 158

P/N:55G90R190

26.6

-5/16" EHS (1,120#)

·3/16" EHS (399#)

152

(27.0) 219

1/4" EHS (665#)

3/16" EHS (399#)

144

170'TOWER 33.3 OR 27.2 27.4 206' [1/4" EHS (665#) 178' 155 -3/16" EHS (399#) 141 136 P/N: 55G90R170

TOWER PARTS	55G	55G BPC55G		APL55G	GA55GD		FDNS BASE ANCHOR		2	470/	
INCLUDED	17		1	1	4	C	B2G	AB2		All pa	ROHN 55G arts shown in
GUYS &	3/16EHS1	/4EHS	BG214	42 BG2144	5/16THH	3/87	тнн	1/2TBE	&J		are included en ordering
CONNECTIONS INCLUDED	1525'	675'	18	6	18	(	6	12		Part N	o: 55G90R170
ANCHORS &	GAC3455TO	P AGK	1GGX	BGK2GGX	CPC.5/.	75 1	TBS	AFETY	3/4	x12PP	
GROUNDING INCLUDED	3		1	3	3			3		1	

APL55G

1

3/16EHS 1/4EHS BG2142 BG2144 5/16THH 3/8THH 1/2TBE&J

6

3

GA55GD

3

12

3

	180' ROHN 55G
	All parts shown in
&J	table are included
αυ	when ordering
	Part No: 55G90R180

TOWER PARTS	55G	BP	C55G	APL55	G	GA55GI	D BA		D <mark>NS</mark> ANCHOR	2		
INCLUDED	18		1	1		4	СВ	32G	AB2			ROHN Irts sho
GUYS & CONNECTIONS	3/16EHS 1	/4EHS	BG214	2 BG21	44	5/16THH	3/8TI	ΗH	1/2TBE	&J		are inc en orde
INCLUDED	1625'	700'	18	6		18	6		12		Part N	o: 55G9
ANCHORS &	GAC3455TO	AGK	1GGX	BGK2G	GX	CPC.5/.7	75 TI	BS/	FETY	3/4	x12PP	
GROUNDING INCLUDED	3		1	3		3			3		1	

190′	ROHN	55G
------	------	-----

shown in included ordering 55G90R190

										_		
TOWER PARTS	55G	BP	C55G	APL55G		GA55G	D		DNS ANCHOF	R	190′	RO
INCLUDED	19		1	1		4	(	CB2G	AB3		All pa	rts
GUYS & CONNECTIONS	3/16EHS1	42265	BG214	2 BG2146	5/	16THH	7/1	6THH	5/8TBE	E&J	table whe	n or
INCLUDED	1700'	750'	18	6		18		6	12		Part N	0:55
ANCHORS &	GAC5655TC	PAGK	(1GGX	BGK2GG	X	CPC1/1	.25	TBSA	FETY	3/4	x12PP	
GROUNDING INCLUDED	3		1	3		3		;	3		1	



# STANDARD DESIGN - 55G 90MPH REV. G, 70MPH REV. F

#### 200'TOWER -(31.9) OR 26.2 185 (24.2) 245' 139 5/16"EHS (1,120#) 212 93 185' 3/16" EHS (399#) 167 47 60 P/N:55G90R200

220' TOWER

270'

241

215'

194

<u>1</u>81'

205

164

123

82

41

-31.1 OR 25.7

23.4

·3/16" EHS (399#)

5/16"EHS (1,120#)

176

TOWER PARTS	55G	BP	C55G	APL55G	GA55G	D		DNS ANCHOF	R	
INCLUDED	20		1	1	4		CB2G	AB3		200' ROHN 55G
GUYS & CONNECTIONS	3/16EHS 1	42265	BG214	2 BG2146	5/16THH	7/1	6THH	5/8TBE	E&J	All parts shown in table are included
INCLUDED	1800'	800'	18	6	18		6	12		when ordering Part No: 55G90R200
ANCHORS & GROUNDING	GAC5655TO	P AGK	1GGX	BGK2GGX	CPC1/1	.25	TBSA	FETY	3/4x12PF	
INCLUDED	3		1	3	3			3	1	

FDNS BPC55G APL55G 55G GA55GD TOWER PARTS BASE ANCHOR INCLUDED CB2G AB3 220' ROHN 55G 22 1 1 5 All parts shown in GUYS & 3/16EHS 142265 BG2142 BG2146 5/16THH 7/16THH 3/4TBE&J table are included CONNECTIONS when ordering INCLUDED 2650' 875' 24 6 24 6 15 Part No: 55G90R220 GAC5755TOP AGK1GGX BGK2GGX CPC1.5/2 TBSAFETY 3/4x12PP **ANCHORS &** GROUNDING 3 1 3 3 3 1 INCLUDED

	240'TOWER
225′	← 30.3 OR 25.3 22.8
182′	296' 
135′	265' (399#) -5/16"EHS 235' (1,120#)
92′	213
45′	197'
	P/N: 55G90R240

P/N: 55G90R220



TOWER PARTS	55G	BPO	C55G	APL55G	GA55G	D		DNS ANCHO	R		
INCLUDED	24		1	1	5	(	CB3G	AB3		_	240' ROHN 55G
GUYS & CONNECTIONS	3/16EHS <sup>-</sup>	142265	BG214	2 BG2146	5/16THH	7/10	6THH	3/4TBI	E&J		All parts shown in able are included
INCLUDED	2900'	950'	24	6	24		6	15		P	when ordering Part No: 55G90R240
ANCHORS & GROUNDING	GAC5755TC	PAGK	1GGX	BGK2GGX	CPC1.5	5/2	TBSA	FETY	3/4x1	2PP	
INCLUDED	3		1	3	3			3	1		

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR	
INCLUDED	26	1	1	6	CB3G	AB2	AB3	
	3/16EHS	142265	BG2142	BG2146	5/1	6THH		O' ROHN 55G
GUYS & CONNECTIONS	3125'	1025'	30	6		30		parts shown in le are included
INCLUDED	7/16THH	1/2TBE&J	5/8TBE&J	CPC.5/.75	CPC	21/1.25		hen ordering No: 55G90R260
	6	6	12	3		3		_
ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	TBS	AFETY	3/4x12PP	
INCLUDED	3	3	2	3		6	1	



# **STANDARD DESIGN - 55G** 90MPH REV. G, 70MPH REV. F

	280'TOWER
265'	← 29.0 OR 24.4 21.8
222′	347'
175′	315' – 5/16" EHS (1,120#)
132′	284' 3/16" EHS
85′	260'
43′	110' X 82'
	70' 224'
	P/N:55G90R280

300'TOWER 28.4 OR 24.1

373 341' 5/16" EHS (1,120#)

314'

290'

158

129' 108'

P/N:55G90R300

100 P/N: 55G90R3

21.2

∫<sup>3/16″</sup>EHS (399#)

100' 240'

285

242

202

162'

122 82

42

305

262

215

172′

125 82

42

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE ANC	ER OUTER IOR ANCHOR	
INCLUDED	28	1	1	6	CB4G AE	82 AB3	
	3/16EHS	142265	BG2142	BG2146	5/16THF		280' ROH
GUYS & CONNECTIONS	3350	1125'	30	6	30		All parts sh able are inc
INCLUDED	7/16THH	1/2TBE&J	5/8TBE&J	CPC.5/.75	CPC1/1.2	.5 F	when ord art No: 55G
	6	6	12	3	3		
ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	TBSAFE	TY 3/4x12PF	
INCLUDED	3	3	2	3	6	1	

IN 55G hown in ncluded dering G90R280

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOF	OUTER ANCHOR	
INCLUDED	30	1	1	7	CB4G	AB2	AB3	
	3/16EHS	142265	BG2142	BG2146	5/16	STHH		800' ROHN 55G
GUYS & CONNECTIONS	4275'	1200'	36	6	3	86	-	All parts shown in
INCLUDED	7/16THH	1/2TBE&J	5/8TBE&J	CPC.5/.75	CPC	1/1.25		able are included when ordering
	6	9	12	3		3	P	art No: 55G90R300
ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	TBSA	FETY	3/4x12PF	
INCLUDED	3	3	2	3		6	1	

320'TOWER 	TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR		
20.8 398'	INCLUDED	32	1	1	7	CB4G	AB2	AB3		
366' 5/16" EHS (1,120#) 334' 3116" EHS (399#)		3/16EHS	1/4EHS	142265	BG2142	BG	2144	BG2146	320' ROH	IN 55G
308 A _1/4"EHS	GUYS & CONNECTIONS	2250'	2250'	1275'	24	1	2	6	All parts sh table are in	
160 <sup>°</sup> (665#) 129 <sup>°</sup> 1089	INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TE	BE&J	TBSAFET		lering
/N: 55G90R320		24	12	6	9	1	2	6	Turrito. 55	3901(320
	ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.	5/.75	CPC1/1.25	5 3/4x12PP	
	INCLUDED	3	3	2	3	3	3	3	1	

	325' 282'- 242'- 202'- 162'- 122'- 82'- 42'-	340'TOWER ← 27.4 OR 23.5 20.4 424' 392' 364' (1,120#) 339' 317 (142°EHS (399#) 317 (665#) 126' 105'
96' 272'	82′	155' (665#) 126' 105'

106

TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE INNER ANCHO	OUTER ANCHOR		
	34	1	1	8	CB4G AB2	AB3		
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146	<b>340' ROHN 55G</b> All parts shown in table are included when ordering Part No: 55G90R340	
	3325'	2425'	1350'	30	12	6		
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY		
	30	12	6	9	15	6		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/.75	CPC1/1.25	3/4x12PP	
	3	3	2	3	3	3	1	

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TOWER PARTS	55G	BPC55G	APL55G	GA55GD	APL1258UM	BASE	INNER ANCHOR	OUTER ANCHOR
INCLUDED	36	1	1	8	2	CB5G	AB2	AB4
	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG	2146	360' R
GUYS & CONNECTIONS	3475'	2575'	1450'	1450' 30 12			6	All parts
INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBS	AFETY	when Part No:
	30	12	6	9	15		6	rurrio.
ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/.75	CPC	1/1.25	
INCLUDED	3	3	2	3	3		3	

All parts shown in table are included when ordering Part No: 55G90R360

	TOWER PARTS	55G	BPC55G	APL55G	GA55GD	APL1258UM	BASE	INNER ANCHOR	OUTER ANCHOR	
	INCLUDED	38	1	1	8	2	CB5G	AB2	AB4	
s		3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2	146	380' RO	HN 55G
HS	GUYS & CONNECTIONS	3175'	3275'	1525'	24	18	6	6	All parts shown in table are included	
	INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSA	FETY	when c	rdering 5G90R380
Ľ		24	18	6	9	15	(	6	1 411 110. 5	_
	ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/.75	CPC1	/1.25	3/4x12PF	
	INCLUDED	3	3	2	3	3	3	3	1	

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	APL1258UM	BASE INNE ANCH	R OUTER OR ANCHOR		
INCLUDED	40	1	1	8	2	CB5G AB	2 AB4		
	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146	400' RC	OHN 55G	
GUYS & CONNECTIONS	2075'	4700'	1600'	18	24	6		All parts shown in table are included	
INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFET	Y when	ordering 55G90R400	
	18	24	6	9	15	6	Part NO:		
ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/.75	CPC1/1.2	5 3/4x12PF		
INCLUDED	3	3	2	3	3	3	1		











120'TOWER

123'

103'

24.8 OR 19.6

(18.2) 150′

·3/16" EHS (399#)

-1/4" EHS (665#)

10

105

72

35

115

77

38′

42

135′

101

67

34

TOWER PARTS	55G	BP	C55G	A	PL55G	GA55G			ANCHOR	2	
INCLUDED	10		1		1	3	С	B1G	AB2		<b>1</b> (
GUYS & CONNECTIONS	3/16EHS 1	4EHS	BG214	12	BG2144	5/16THH	3/8	тнн	1/2TBE&		ta
INCLUDED	600'	400'	12		6	12		6	9		Pai
ANCHORS &	GAC3455TO	AGK	1GGX E		GK2GGX	CPC.5/.	75	TBS	TBSAFETY		(12PP
GROUNDING INCLUDED	3		1		3	3	3		3	1	

FDNS

100' ROHN 55G All parts shown in table are included when ordering Part No: 55G110R100

FDNS

	GA55GI		FI	DNS			
	GASSGI		BASE	ANCHOF	2		
	3	C	CB1G	AB2		-	<b>10' ROHN 55G</b> Ill parts shown in
ļ	5/16THH	3/8	тнн	1/2TBE&J		ta	able are included when ordering
	12		6	9		Pa	rt No: 55G110R110
	CPC.5/.	75	TBS	AFETY	3/4	x12PP	

1

110′TOWER □← (25.4) OR [19.9]	TOWER PARTS	55G	BP	C55G	APL55G	GA55GD	E FI BASE	
05' <u>18.6</u> 137'	INCLUDED	11		1	1	3	CB1G	
72' 3/16" EHS (399#)	GUYS &	3/16EHS 1	/4EHS	BG214	2 BG2144	5/16THH 3	/8THH	1/27
114' 1/4" EHS (665#)	CONNECTIONS INCLUDED	675'	450'	12	6	12	6	
35' 95'	ANCHORS &	GAC3455TO	P AGK	1GGX	BGK2GGX	CPC.5/.75	5 TBS	AFE
P/N: 55G110R110	GROUNDING INCLUDED	3		1	3	3		3

120′	RO	ΗN	55G

Il parts shown in ble are included when ordering rt No: 55G110R120

TOWER PARTS	55G	BPG	C55G	APL55G	GA55G	D BASE	ANCHOR	R	
INCLUDED	12		1	1	3	CB2G	AB2		<b>12</b> Al
GUYS & CONNECTIONS	3/16EHS	1/4EHS	BG214	2 BG2144	5/16THH	3/8THH	1/2TBE	&J	tak
INCLUDED	725'	500'	12	6	12	6	9		Part
	GAC3455TC	OP AGK	1GGX	BGK2GGX	CPC.5/.	75 TBS	BSAFETY		(12PP
GROUNDING INCLUDED	3		1	3	3		3		1

130' ROHN 55G
All parts shown in
table are included

en ordering o: 55G110R130

TOWER PARTS	55G	BP	C55G	APL55G	GA55G		DNS ANCHOF	2	
INCLUDED	13		1	1	3	CB2G	AB2		l <b>30'</b> All pa
GUYS & CONNECTIONS	3/16EHS1	/4EHS	BG214	12 BG2144	5/16THH	3/8THH	1/2TBE	E&J <sup>t</sup>	table whe
INCLUDED	800'	525'	12	6	12	6	9	Pa	art No
ANCHORS & GROUNDING	GAC3455TO	P AGK	1GGX	BGK2GGX	CPC.5/.	75 TBS	AFETY	3/4x12PF	<b>&gt;</b>
INCLUDED	3		1	3	3		3	1	

INCHUR								
AB2		140' ROHN 55G All parts shown in						
/2TBE&J		table are included when ordering						
12		Part No: 55G110R140						
FETY 3/4		x12PP						

										_	
	55G	BD	C55G		APL55G	GA55G		F	DNS		
TOWER PARTS	556	DEV	DI 0000		AFLOOG	GASSGI		BASE	ANCHOR		
INCLUDED	14		1		1	4	C	CB2G AB2			
GUYS & CONNECTIONS	3/16EHS 1	/4EHS	BG214	12	BG2144	5/16THH	3/8	тнн	1/2TBE	&J	
INCLUDED	1275'	575'	18		6	18		6	12		
ANCHORS &	GAC3455TO	PAGK	1GGX	В	GK2GGX	CPC.5/.	75	TBS	AFETY	3/4)	<12F
GROUNDING	3		1		3	3		3			1





112'

P/N:55G110R130

140'TOWER (23.6) OR 18.9

151

131

117

P/N: 55G110R140

(17.2) 175

1/4" EHS (665#)

3/16" EHS (399#)

112





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	200'TOWER
195	( <u>21.4</u> ) OR <u>17.6</u> (13.2)
156	-3/16" EHS
117	, 223' (399#) -5/16″EHS (1,120#)
39	178' T 1/4"EHS
	160'
	P/N:55G110R200

220'TOWER

215′

182

145

112 73

36

235

201

167

133′ 99' 66'

33′

1 1 0

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	FDNS BASE ANCHOR	R	
INCLUDED	20	1	1	5 (	CB3G AB3	200	)'
	3/16EHS	1/4EHS	142265	BG2142	BG2144	All tab	p
GUYS & CONNECTIONS	1750'	725'	825'	18	6	w Part	
INCLUDED	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	Fait	IN
	6	18	6	6	15		
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP	
INCLUDED	3	1	3	3	3	1	

00' ROHN 55G II parts shown in ble are included when ordering rt No: 55G110R200

220'TOWER 15' <sup>[</sup>	TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR		
12.8 82'-278'	INCLUDED	22	1	1	6 0	CB4G	AB2	AB3		
45′ 253′ <b>5</b> /16″ EHS (1,120#) 12′ <b>7</b> 3/16″ EHS		3/16EHS	1/4EHS	142265	BG2142	BG	62144	BG2146	220' ROH	HN 55G
73' 209' (399#) -1/4"EHS (665#)	GUYS & CONNECTIONS	1925'	825'	900'	24		6	6	All parts s table are in	
36' 94'	INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8	TBE&J	TBSAFE	Y when or Part No: 550	5
P/N: 55G110R220		24	6	6	6		12	6		
	ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPO	C.5/.75	CPC1/1.2	5 3/4x12PP	
	INCLUDED	3	3	2	3		3	3	1	

240'TOWER 35' (20.3) OR 16.9 (12.4) 01' (303'	TOWER PARTS INCLUDED	55G 24	BPC55G 1	APL55G 1		base CB4G		OUTER ANCHOR AB3		
67' 278' 5/16" EHS (1,120#) 33' 254' 3/16" EHS (399#)		3/16EHS	1/4EHS	142265	BG2142	BG	62144	BG2146	240' ROH	IN 55G
99' 234 56' 127' 14"EHS (665#)	GUYS & CONNECTIONS	1775'	1700'	975'	24		12	6	All parts s table are ii	
33' 104' 87' 87'	INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8	TBE&J	TBSAFET	when or Part No: 550	5
P/N:55G110R240		24	12	6	9		12	6		
	ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPO	C.5/.75	CPC1/1.25	3/4x12PP	
	INCLUDED	3	3	2	3		3	3	1	

	260' TOWER
255′	(19.8) OR 16.6
219′-	(12.0) 329'
183′	302' 5/16" EHS (1,120#)
147′	277′ 3/16″ EHS (399#)
1111/-	255' r1/4"EHS
75′	142 (665#)
38′	116'
	88' 208'
Р	/N:55G110R260

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE IN	INER CHOR	OUTER ANCHOR			
INCLUDED	26	1	1	7 (	CB5G A	B2	AB3			
	3/16EHS	1/4EHS	142265	BG2142	BG21	44	BG2146		260' ROHN 55G	
GUYS & CONNECTIONS	1500'	2300'	1050'	18	18		6		All parts shown in table are included	
INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE	&J	TBSAFETY		when ordering Part No: 55G110R260	
	18	18	6	9	12		6			
ANCHORS &	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5	/.75	CPC1/1	.25	3/4x12PP	
GROUNDING INCLUDED	3	3	2	3	3		3		1	

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TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR			
INCLUDED	28	1	1	8	CB5G	AB2	AB4			
	3/16EHS	1/4EHS	142265	BG2142	BG	BG2144 BG2146		<sup>3</sup> 280' RO	HN 55G	
GUYS & CONNECTIONS	2825'	2025'	1150'	30		12	6		All parts shown in table are included	
INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8	5/8TBE&J TBSAFETY		V	when ordering Part No: 55G110R280	
	30	12	6	9		15	6			
ANCHORS & GROUNDING	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPO	C.5/.75	CPC1/1.2	25 3/4x12PP		
INCLUDED	3	3	2	3		3	3	1		

295' - 259' - 223' - 187' - 151' - 115' - 79' -	(19) 380' 353' 328' 304' 284 152'	(11.) (1.)	R 16.1 6"EHS 120#) (16"EHS (399#) (399#) (665#)
79'_ 41'-	152 127 108	ho	(665#) 0 240'
P.	/N:550	G110	R300

	TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR			
	INCLUDED	30	1	1	8	CB5G	AB2	AB4			
	GUYS & CONNECTIONS	3/16EHS	1/4EHS	142265	BG2142	BG	BG2144 BG2146		46	300' RO	HN 55G
		1675'	2500'	2350'	18		18	12		All parts shown in table are included when ordering Part No: 55G110R300	
	INCLUDED	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8	5/8TBE&J TBSAFE		ΞTΥ		
		18	18	12	9		15	6			
		GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CP	C.5/.75	CPC1/1	1.25	3/4x12PP	
	GROUNDING INCLUDED	3	3	2	3		3	3		1	



<u> </u>	444/2011/50
1	100'TOWER
l r	← 18.7 OR 14.6
95′	18.0
	124'
	5/16" EHS
63'	-3/16"EHS
63	(399#)
	102' Γ <sup>1/4"</sup> EHS (665#)
	(003#)
33'	
33	8/ 1
	80'
	P/N: 55G130R100

110'TOWER 18.2 OR 14.2

P/N:55G130R110

16.0 137′

> -5/16" EHS (1120#) (399#)

[1/4" EHS (665#)

105

72

35

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE ANCHOR		
INCLUDED	10	1	1	3	CB2G AB2		
	3/16EHS	1/4EHS	142265	BG2142	BG2144		100' ROHN 55G
GUYS & CONNECTIONS	300'	325'	400'	6	6		All parts shown in table are included
INCLUDED	BG2146	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	when ordering Part No: 55G130R100
	6	6	6	6	6	3	
ANCHORS & GROUNDING	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75	TBSAFETY	3/4x12PP	
INCLUDED	3	1	3	3	3	1	

110' ROHN 55G

All parts shown in table are included when ordering Part No: 55G130R110

TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD		NS ANCHOR	
	11	1 1 3 CB2G AB3		AB3			
GUYS & CONNECTIONS	3/16EHS	1/4EHS	142265	BG2142	BG2	2144	
	325'	375'	450'	6	6	6	
INCLUDED	BG2146	5/16THH	3/8THH	7/16THH	5/8TI	BE&J	
	6	6	6	6		9	
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSA	FETY	3/4x12PF
INCLUDED	3	1	3	3	3		1
INCLUDED	3	I	3	3		5	1

	120'TOWER
115'	← (17.7) OR [14.0
115	150'
	5/16" EHS (1120#)
77'-	(399#) 123'
38′	103'
	2/N: 55G130R120
	/11.5501501120

TOWER PARTS	55G	BPC55G	APL55G	GA55GD	FDNS BASE ANCHOR			
INCLUDED	12	1	1	3	CB2G	AB3		
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG	2144		1
	350'	400'	500'	6	6			A ta
	BG2146	5/16THH	3/8THH	7/16THH	5/8T	BE&J		Pa
	6	6	6	6		9		
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSA	AFETY	3/4x12PP	
INCLUDED	3	1	3	3		3	1	

20' ROHN 55G All parts shown in

table are included when ordering Part No: 55G130R120



TOWER PARTS	55G	BPC55G	APL55G	GA55GD		DNS ANCHOF
GUYS & 80	13	1	1	3	CB2G	AB3
GUYS & CONNECTIONS INCLUDED	1/4EHS	142265	BG2144	BG2146		
	800'	800' 525' 12 6				
	3/8THH	7/16THH	5/8TBE&J	TBSAFETY	·	
	12	6	9	3		
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	3/4x	12PP
INCLUDED	3	1	3	3		1

130' ROHN 55G All parts shown in table are included

when ordering Part No: 55G130R130

GA55GD FDNS BASE ANCHOR

### **STANDARD DESIGN - 55G** 130MPH REV.G, 110MPH REV. F

BPC55G

55G

TOWER PARTS

140' ROHN 55G All parts shown in table are included when ordering Part No: 55G130R140



150'TOWER -(16.6) OR 13.4

161′

140'

125

P/N:55G130R150

·5/16" EHS (1120#)

(-1/4" EHS (665#)

3/16" EHS (399#)

120

145

108

72

36

TOWERFARTS					DAJE ANCHON	
INCLUDED	14	1	1	4	CB3G AB3	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	375'	900'	575'	6	12	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	P
	6	6	12	6	3	
ANCHORS & GROUNDING INCLUDED	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

APL55G

**150' ROHN 55G** All parts shown in

table are included when ordering Part No: 55G130R150

TOWER PARTS	55G	BPC55G	APL55G	GA55GD		DNS ANCHOR	
INCLUDED	15	1	1	4 0	CB3G	AB3	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG	62144	
	400'	975'	600'	6		12	
	BG2146	5/16THH	3/8THH	7/16THH	5/87	ГВЕ&Ј	P
	6	6	12	6		3	
ANCHORS & GROUNDING INCLUDED	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBS	AFETY	3/4x12PP
	3	1	3	3		3	1

160'TOWER	
155' 16.3 OR 13.2	TOWE
201′ 116′ 201′ 5/16″ EHS	
173' 1/4" EHS (665#) 39' 134' 128'	GU CONNE INCL
P/N:55G130R160	
	ANCH

TOWER PARTS	55G	BPC55G	APL55G	GA55GD		DNS ANCHOR	
INCLUDED	16	1	1	4	CB3G	AB3	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG	62144	
	450'	1050'	650'	6		12	
	BG2146	5/16THH	3/8THH	7/16THH	5/8	ГВЕ&Ј	
	6	6	12	6		12	
ANCHORS & GROUNDING INCLUDED	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBS	AFETY	3/4x12PF
	3	1	3	3		3	1

160' ROHN 55G

All parts shown in table are included when ordering Part No: 55G130R160

170' ROHN 55G

All parts shown in

table are included

when ordering Part No: 55G130R170



TOWER PARTS	55G	BPC55G	APL55G	GA55GD	FDNS BASE ANCHOR		
INCLUDED	17	1	1	4	CB3G	AB4	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG	62144	
	475'	1100'	700'	6		12	
	BG2146	5/16THH	3/8THH	7/16THH	3/4	TBE&J	F
	6	6	12	6		12	
ANCHORS & GROUNDING INCLUDED	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBS	AFETY	3/4x12PP
	3	1	3	3		3	1





TOWER PARTS	55G	BPC55G	APL55G	GA55GD	BASE ANCHO	R	
INCLUDED	18	1	1	5	CB3G AB4		
GUYS & CONNECTIONS INCLUDED	3/16EHS	3/16EHS 1/4EHS 142265 BG2142 BG2144		180 All p			
	1000'	1225'	725'	12	12	table wh	
	BG2146	5/16THH	3/8THH	7/16THH	3/4TBE&J	Part	
	6	12	12	6	15		
ANCHORS &	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	3/4x12PP	
GROUNDING INCLUDED	3	1	3	3	3	1	

### 180' ROHN 55G

FDNS

All parts shown in table are included when ordering Part No: 55G130R180



TOWER PARTS	55G	55G BPC55G APL5		GA55GD		NS ANCHOF
INCLUDED	19	1	1	5	CB4G AE	
GUYS & CONNECTIONS INCLUDED	1/4EHS	142265	BG2144	BG2146		
	2350'	775'	24	6		
	3/8THH	7/16THH	3/4TBE&J	TBSAFETY		
	24	6	15	3		
ANCHORS & GROUNDING	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	3/4x12	2PP
INCLUDED	3	1	3	3	1	

#### 190' ROHN 55G

All parts shown in table are included when ordering Part No: 55G130R190



## GUYED TOWERS - 55G

#### **PARTS & ACCESSORIES** .0 **TOP MOUNT** 55TDMKD - NO MAST **BEARING PLATE** ACCESSORY SHELF 55TDM2S3KD - 2 3/8" O.D. MAST BPL55G AS455G **TOP PLATE** 55TDM25S3KD - 27/8" O.D. MAST CONVERTS STANDARD SECTION TO A FOR MOUNTING MANY POPULAR APL55G 55TDM3S3KD - 3 1/2" O.D. MAST TOP SECTION. HOLE PATTERN FITS TB3 (2" O.D.) AND TB4 (3" O.D.) THRUST ROTORS. FIELD DRILLING MAY BE FOR MOUNTING BEACON OR 55TDM35S3KD - 4" O.D. MAST NECESSARY FOR SOME ROTORS. LIGHTNING ROD. 55TDM4S3KD - 4 1/2" O.D. MAST BEARING. MOUNTING TUBE PROVIDED IS 7'. **TAPERED BASE\*** 55TG - STANDARD 55TGIA - USE WITH A4197L **BASE INSULATOR PIER PIN** 55TGIAA - USE WITH 3/4X12PP A4722B BASE INSULATOR **CONCRETE BASE PLATE** FOR USE WITH BPC55G INSULATOR AND PIER PIN BPC55G\* EMBEDDED IN CONCRETE. MUST BE ORDERED FOR USE WITH 3/4X12PP PIER PIN EMBEDDED IN CONCRETE. PIER PIN MUST BE ORDERED SEPARATELY. LIGHTNING ROD SEPARATELY, UNLESS BEING LRCL PURCHASED AS PART OF CONCRETE BASE PLATE IS TO BE 5' COPPER CLAD, MOUNTS TO APL55G. A COMPLETE TOWER KIT. USED FOR BRACKETED AND **GUYED APPLICATIONS ONLY.** Adjustable 2.5' - 3.0' 5' SHORT BASE **FLAT ROOF MOUNT SIDE ARM BRACKET** FR55G\* SB55G SA253UA BOLTS DIRECTLY TO FLAT ROOF SURFACE. MOUNTING TUBE PROVIDED IS 3' LONG, **FACE MOUNT** FOR EMBEDMENT IN CONCRETE. 2 - 1/4" O.D. DM55G2 - 2 3/8" O.D. 5' LONG DM554 - 4 1/2" O.D. 5' LONG \* TOWERS MOUNTED ON THESE BASES MUST BE BRACKETED OR GUYED AT ALL TIMES. TEMPORARY STEEL GUYING MAY ALSO BE NECESSARY DURING INSTALLATION AND DISMANTLING.

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15)

GUYED TOWERS - 55G







# STANDARD ANCHOR BLOCKS



### Refer to page 119 for anchor rod installation angles.

Block	Anch	or Dim	ensior	ns (in.)	Horizontal Bars	Stirrup Size	Concrete Vol. (Cu. Yds.)
DIOCK	Α	В	С	D	(Qty. & Size)	& Spacing	(Cu. Yds.)
AB2	4' - 0"	1' - 6″	4' - 0"	6'-0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#3 @ 12″ O.C.	1.33 Per Block 4.0 Total for 3
AB3	6' - 0″	1'-6″	3'-0"	6'-0"	(4) #6 Bars, Top Layer (4) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″ O.C.	1.0 Per Block 3.0 Total for 3
AB4	6' - 0″	1′-6″	4' - 0"	9'-0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#4 @ 12″ O.C.	2.0 Per Block 6.0 Total for 3
AB5	8'-0"	2'-0"	3'-0"	10'-0"	<ul><li>(4) #7 Bars, Top Layer</li><li>(4) #7 Bars, Bottom Layer</li><li>(1) Additional Bar, Each Side</li></ul>	#4 @ 12″ O.C.	2.22 Per Block 6.7 Total for 3
AB6	8' - 0"	2'-0"	4'-0"	10'- 0"	(5) #7 Bars, Top Layer (5) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4@12″O.C.	2.96 Per Block 8.9 Total for 3



# ANCHOR ROD INSTALLATION ANGLES



GAC5655TOP 42

400'

GAC3455TOP 38



	55G	i   90N	ИРН		55G   110MPH					55G   130MPH			
Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle	Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle	Tower Height	Rod Number	Rod Angle	
100′	GAC3455TOP	42	-	-	100′	GAC3455TOP	41	-	-	100′	GAC3455TOP	41	
110′	GAC3455TOP	42	-	-	110′	GAC3455TOP	40	-	-	110′	GAC5655TOP	40	
120′	GAC3455TOP	40	-	-	120′	GAC3455TOP	40	-	-	120′	GAC5655TOP	40	
130′	GAC3455TOP	40	-	-	130′	GAC3455TOP	40	-	-	130′	GAC5655TOP	40	
140′	GAC3455TOP	40	-	-	140′	GAC3455TOP	38	-	-	140′	GAC5655TOP	40	
150′	GAC3455TOP	39	-	-	150′	GAC5655TOP	38	-	-	150′	GAC5655TOP	40	
160′	GAC3455TOP	39	-	-	160′	GAC5655TOP	39	-	-	160′	GAC5655TOP	40	
170′	GAC3455TOP	38	-	-	170′	GAC5655TOP	38	-	-	170′	GAC5755TOP	38	
180′	GAC3455TOP	38	-	-	180′	GAC5655TOP	38	-	-	180′	GAC5755TOP	38	
190′	GAC5655TOP	40	-	-	190′	GAC5655TOP	38	-	-	190′	GAC5755TOP	37	
200′	GAC5655TOP	40	-	-	200′	GAC5655TOP	38	-	-				
220′	GAC5755TOP	38	-	-	220′	GAC3455TOP	42	GAC5655TOP	43				
240′	GAC5755TOP	37	-	-	240′	GAC3455TOP	40	GAC5655TOP	44				
260′	GAC3455TOP	43	GAC5655TOP	42	260′	GAC3455TOP	41	GAC5655TOP	44				
280′	GAC3455TOP	42	GAC5655TOP	42	280′	GAC3455TOP	40	GAC5655TOP	43				
300′	GAC3455TOP	39	GAC5655TOP	43	300′	GAC3455TOP	39	GAC5655TOP	43				
320′	GAC3455TOP	40	GAC5655TOP	43									
340′	GAC3455TOP	40	GAC5655TOP	42									
360′	GAC3455TOP	40	GAC5655TOP	42									
380′	GAC3455TOP	40	GAC5655TOP	42									





-GUYED TOWERS - 55G------

**PLAN VIEW** 

Base	Α	В	с	D	E	F	Concrete Vol. (Cu. Yds.) Round Pier	Vertical Bars (No. & Size)	Horiz. Bars in Pad (No. & Size)
CB1G*	2'-6"	2'-6"	N/A	4'-0"	N/A	N/A	1.0	(8) #7	NONE
CB2G	3'-0"	3'-0"	N/A	4'-0"	N/A	N/A	1.2	(10) #7	NONE
CB3G	3'-6"	3'-6"	N/A	4'-0"	N/A	N/A	1.6	(12) #7	NONE
CB4G	4' - 0"	4'-0"	N/A	4' - 0"	N/A	N/A	2.1	(12) #8	NONE
CB5G	2'-0"	4'-0"	1'-0"	4' - 0"	3'-3"	1'-3″	1.1	(8) #6	(5) #5 (Total of 10)

\* Square pier option must be used for CB1G.

120

Products LLC





# **STANDARD 65G GUYED TOWER**







### **GENERAL USE**

The 65G is designed to provide excellent rigidity and strength in applications up to 500'. This high strength design covers a wide variety of communication uses. The 65G is completely pre-fabricated in welded sections, allowing for quick and convenient installation.

### **FEATURES**

- Completely hot-dip galvanized after fabrication
- Built on a 24 1/4" equilateral triangle design
- High strength tubular legs joined by Zig-Zag<sup>®</sup> cross members
- Each section contains all required nuts and bolts shipped with section
- Continuous solid round steel bracing

#### CAUTION

Mixing copies of ROHN towers with ROHN towers is dangerous and voids all engineering and warranty data supplied by ROHN. Materials used by others are not the same quality and have not been tested or engineered by ROHN. Mixing ROHN tower sections with non-ROHN products may cause tower failure or injury.

*Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 142 for ordering information.* 



## STANDARD 65G GUYED TOWER SECTIONS



### **QUICK REFERENCE**

PARTS & ACCESSORIES	PAGES 141-142
GROUNDING INFORMATION	PAGE 143
FOUNDATION INFORMATION	PAGES 143-146



**STANDARD SECTION 65G** - 10' Section **6520G** - 20' Section



TAPERED BASE 65TGH - 10' Section



#### **BUYERS GUIDE STANDARD DESIGNS - 65G** 90MPH REV. G [3 SECOND GUST] 70MPH REV. F [FASTEST MILE] **Design Criteria** EPA (SQ. FT.) For Exposure B, Revision G 78.1 60.8 92 68.0 'EPA (SQ. FT.) For Exposure C, Revision G 122′ 5/16" EHS (1,120#) EPA (SQ. FT.), Revision F 3/16" EHS 45' 92′ (399#) **Guy Initial Tension** – P/N 65G90R100 Tower Model Tower Height (ft.) Windspeed (Rev.G) **ROHN** Tower P/N 65G90R100 **EPA= Effective Projected Area**

This document is to serve as a guide for sizing and purchasing the 65G tower. Tower and foundation installations should be performed by qualified and experienced personnel using assembly drawings provided with each tower.

### **DESIGN NOTES:**

- 1. Tower designs are in accordance with ANSI/TIA-222-F and ANSI/TIA-222-G, Class I Structures, Topographic Category 1.
- 2. Design assumes towers are installed on level ground. Lower EPA values will apply for roof mounted towers or for sites located on unusual terrain.
- 3. Designs assume two 7/8" diameter lines on each tower face.
- 4. Anchor radius is from tower base to intersection of anchor rod with ground.
- 5. Guy chord lengths shown are based on level ground. Initial tensions for guys are shown in ( ) in pounds at 60° Fahrenheit.
- 6. Antenna and mounts are assumed symmetrically placed at the tower top.

#### PARTS LIST NOTES:

- 1. Items listed are required for complete guyed towers.
- 2. Base and anchor foundations listed refer to standard foundation designations.
- 3. Guys provided with each standard tower are based on level ground conditions with an additional 6% length.
- 4. Rev G anchor grounding (AGK1GGX) and base grounding (BGK2GGX) are included with the tower material.
- 5. Assembly drawings and a safety package (P/N: ACWS) are included with each tower.
- 6. Parts lists are subject to change based on availability or revised design criteria.

#### FOR FOUNDATION INFORMATION, PLEASE SEE PAGES 143-146. FOR GENERAL INSTALLATION INFORMATION, PLEASE SEE PAGES 147-153.











BASE INNER ANCHOR

CB3G AB3

BG2144

6

5/16THH

6

CPC1/1.25 TBSAFETY 15/16x16PP

3

GA65GD

3

BG2144

6

5/16THH

6

3

BGK2GGX CPC1/1.25 TBSAFETY 15/16x16PP

1

FDNS

BASE ANCHOR

1

AB3

CB3G

### **STANDARD DESIGN - 65G** 90MPH REV. G, 70MPH REV. F

APL4HA

1

3/16EHS

525'

7/16THH

6

3

6520G

9

3/16EHS

550'

7/16THH

6

3

GA65GD

3

BG2142

6

3/8THH

6

6

APL4HA

1

BG2142

6

3/8THH

6

3

6520G

9

1/4EHS

625'

5/8TBE&J

9

GAC5655TOP AGK1GGX BGK2GGX

1

65TGH

1

1/4EHS

650'

5/8TBE&J

9

1

GAC5655TOP AGK1GGX

65TGH

1

142265

750'

BG2146

6

3

65G

1

142265

800'

BG2146

6

3

TOWER PARTS INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING INCLUDED

TOWER PARTS

INCLUDED

GUYS &

CONNECTIONS

INCLUDED

**ANCHORS &** 

GROUNDING

INCLUDED

190' ROHN 65G All parts shown in table are included when ordering Part No: 65G90R190

200' ROHN 65G

All parts shown in

table are included

when ordering Part No: 65G90R200

	190'TOWER
180′	64.8 OR 53.1 236' 57.2
	5/16"EHS (1,120#)
120′	1/4″ EHS (665#) 194′
	- 3/16"EHS (399#)
60′	163'
	152'
1	P/N:65G90R190
	200'TOWER
Г	← 63.8) OR 52.5
186′	245' 54.4 = 5/16"EHS
	(1,120#)
124′	Γ 1/4″ EHS (665#)
124	202'
	- 3/16″EHS (399#)
62′	172'
	160'
ŀ	P/N:65G90R200
	220'TOWER
208′	220'TOWER ← 62.1 OR 51.4 272'_ 5(3.50) 272'_ 5(3.50)





TOWER PARTS INCLUDED	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR	
	1	1	10	1	4	CB3G	AB3
GUYS & CONNECTIONS	142265	1/4EHS	3/16EHS	BG2142	BG2144		220′
	875'	750'	1250'	12	6	All pa table a	
INCLUDED	BG2146	5/8TBE&J	7/16THH	3/8THH	5/16THH	6THH Pa	
	6	12	6	6	12		
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP	
INCLUDED	3	1	3	3	3		1

220' ROHN 65G
All parts shown in
table are included
when ordering
Part No: 65G90R220

TOWER PARTS INCLUDED	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCH	OR
	1	1	11	1	4	CB3G AB3	
GUYS &	142265	1/4EHS	3/16EHS	BG2142	BG2144	2.4	 D' ROHN 65G
	975'	825'	1375'	12	6	All	parts shown in
CONNECTIONS INCLUDED	BG2146	5/8TBE&J	7/16THH	3/8THH	5/16THH	w	le are included hen ordering
	6	12	6	6	12	Part	No: 65G90R240
ANCHORS &	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PF	<b>D</b>
GROUNDING INCLUDED	3	1	3	3	3	1	





280' TOWER - 58.0 OR 48.9

276

249′

P/N:65G90R280

3/8" EHS (1,540#)

1/4" EHS (665#)

272 352

216 162

108

54 230

TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD		D <mark>NS</mark> ANCHOI	R
INCLUDED	1	1	12	1	4	CB4G AB		1
	142265	1/4EHS	3/16EHS	BG2142	BG2144		26	_ ٥′
GUYS & CONNECTIONS	1050'	1675'	700'	6	12		All	pa
INCLUDED	BG2147	5/8TBE&J	1/2THH	3/8THH	5/16THH		v	/he
	6	12	6	12	6		Par	: N
ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16>	(16PP	
INCLUDED	3	1	3	3	3		1	

ROHN 65G arts shown in

are included en ordering No: 65G90R260

ER DR 48.9	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD		ONS ANCHOF	2	
0R 48.9 .4 EHS 0#)	INCLUDED	1	1	13	1	5	CB4G	AB4		
/4" EHS (665#) (399#) 224/		142265	1/4EHS	3/16EHS	BG2142	BG2144		<b>280' ROHN 65</b> All parts shown i table are included		
	GUYS & CONNECTIONS	1125'	1875'	1550'	12	12				
	INCLUDED	BG2147	5/8TBE&J	1/2THH	3/8THH	5/16THH	]	hen ordering No: 65G90R280		
R280		6	15	6	12	12	Part NO: 6		10.050901200	
	ANCHORS &	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	TY 15/16x16PP			
	GROUNDING INCLUDED	3	1	3	3	3	1			

	300'TOWER								
292′	← 56.8 OR 48.2 (48.4)								
232′	378′ 3/8″EHS 334′ <sup>(1,540#)</sup>								
174′	296' 5/16" EHS (1,120#) 1/4" EHS								
116′	296 1/4" EHS (665#)								
58′	247' 1 <sup>3</sup> /16"EHS (399#) 240'								
	P/N:65G90R300								

	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD		ONS ANCHOR
	INCLUDED	1	1	14	1	5	CB4G	AB4
		142261	142265	1/4EHS	3/16EHS	BG2142		,
	GUYS & CONNECTIONS	1225'		1800'	800'	6		300
		BG2144	BG2144 BG2146		5/8TBE&J	1/2THH	All p table	
	INCLUDED	12	6	6	15	6		wh Part
		7/16THH	3/8THH	5/16THH	TBSAFETY			
		6	12	6	3		_	
	ANCHORS & GROUNDING	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	15/16x16PP	'	
	INCLUDED	3	1	3	3	1		



parts shown in le are included when ordering rt No: 65G90R300





340' TOWER

429' 46.6

350

142

04

P/N:65G90R340

332

275 220

165 112

55

- 54.8 OR 46.9

3/8″ EHS (1,540#) 387′ 5/16″ EHS 350′ (1,120#)

(1,120#) 1/4" EHS (665#)

88' 272

3/16"EH (399#)

	65G	65TGH	6520G	APL4HA	GA65GD	FDNS			
TOWER PARTS	05G	05101	6520G	AFL4HA	GA03GD	BASE	ANCHOR		
INCLUDED	1	1	15	1	5	CB5G	AB4		
	142261	142265	1/4EHS	3/16EHS	BG2142				
	1300'	1150'	1925'	850'	6				
GUYS & CONNECTIONS	BG2144	BG2146	BG2147	5/8TBE&J	1/2THH		320	20'	
INCLUDED	12	6	6	15	6		All p tabl		
	7/16THH	3/8THH	5/16THH	TBSAFETY		wh Part I			
	6	12	6	3		_	Parti		
ANCHORS & GROUNDING INCLUDED	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	15/16x16PP				
	3	1	3	3	1				

0' ROHN 65G parts shown in le are included when ordering t No: 65G90R320

TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNER ANCHOR	OUTER ANCHOR		
INCLUDED	1	1	16	1	6	CB5G	CB5G AB2 AB4			
GUYS & CONNECTIONS INCLUDED	142261	142265	1/4EHS	3/16EHS	BG2142					
	1375'	1250'	2600'	350'	6					
	BG2144	BG2146	BG2147	5/8TBE&J	1/2TBE&J			<b>'ROHN</b> parts sho		
	18	6	6	12	6		table are inc			
	1/2THH	7/16THH	3/8THH	5/16THH		when or Part No: 65				
	6	6	18	6						
	GAC5655TOP	GAC3455TOP	AGK1GGX	BGK2GGX						
ANCHORS & GROUNDING INCLUDED	3	3	2	3						
	CPC.5/.75	CPC1/1.25	TBSAFETY	15/16x16PP						
	3	3	6	1						

0' ROHN 65G parts shown in le are included

hen ordering t No: 65G90R340

360' TOWER 53.9 OR 46.4 352 (45.8) 455′ 3/8″ EHS 410′ (1,540#) 292 (1,120#) 234 371 176 [1/4" EHS
 [665#)
 [665#] 338 118 151 59 111 94' 288' P/N:65G90R360

TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNER ANCHOF	OUTER ANCHOR	
INCLUDED	1	1	17	1	6	CB6G	AB2	AB4	
	142261	142265	1/4EHS	5/8TBE&J	1/2TBE&J	3/8T	нн		
GUYS &	1450'	1325'	3100'	12	6	24	1		
CONNECTIONS INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH		26		N 65G
	24	6	6	6	6		All	parts sh	nown in
	GAC5655TOP	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75		W	le are in hen ord	ering
ANCHORS & GROUNDING	3	3	2	3	3		Part	No: 650	390R360
INCLUDED	CPC1/1.25	APL1258UM	TBSAFETY	15/16x16PP					
	3	2	6	1					





TOWER PARTS	65G 65	TGH 6520	G APL4H	IA GA65GE	)	BASE A	INNER NCHOR	OUTER ANCHOR	
INCLUDED	1	1 18	3 1	6		CB6G	AB2	AB4	
	142261	142265	1/4EHS	5/8TBE&J	1/2TBE&J	3/8TH	IH		
GUYS &	1550'	1400'	3300'	12	6	24			
CONNECTIONS INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH		-		HN 65G
	24	6	6	6	6		ta	ble are i	shown in included
	GAC5655TOP	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75			when or rt No: 65	dering 5G90R380
ANCHORS & GROUNDING	3	3	2	3	3				
INCLUDED	CPC1/1.25	APL1258UM	TBSAFETY	15/16x16PP					
	3	2	6	1					



	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNER ANCHO	OUTER ANCHOR	
	INCLUDED	1	1	19	1	7	CB6G	AB2	AB4	
,		142261	142265	1/4EHS	5/8TBE&J	1/2TBE&J	3/8T	нн		
	GUYS & CONNECTIONS	1625'	1475'	4300'	12	9	30			
	INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH		-		HN 65G
2		30	6	6	6	6			•	included
_		GAC5655TOP	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75		Pa		5G90R400
	ANCHORS & GROUNDING	3	3	2	3	3				
		CPC1/1.25	APL1258UM	TBSAFETY	15/16x16PP					
		3	2	6	1					



TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNER ANCHOR	OUTER ANCHOR			
INCLUDED	1	1	20	1	7	CB6G	AB3	AB4			
	142261	142265	1/4EHS	5/8TBE&J	3/8THH						
GUYS &	1700'	5025'	1100'	21	12		42	20' RO	HN 65G		
CONNECTIONS INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH			shown in included			
	12	24	6	6	24		table are includ when orderin Part No: 65G90R				
	GAC5655TOP	APL1258UM	AGK1GGX	BGK2GGX	CPC1/1.25						
ANCHORS & GROUNDING	6	2	2	3	6						
INCLUDED	TBSAFETY	15/16x16PP									
	6	1									



GA65GD

BASE INNER OUTER

## **STANDARD DESIGN - 65G** 90 MPH REV. G, 70 MPH REV. F

6520G

APL4HA

65TGH

65G

TOWER PARTS



460'TOWER ← (50.3) OR 44.0 580′ (42.6)

3/8″ EHS 538′ (1,540#)

498' 462'

431

21

17:

P/N:65G90R460

5/16" EHS (1,120#)

134 368

1/4″ EHS (665#)

448 392

336

280

224′

168' 112'

56'

TOWER PARTS	000		00200	/	0.00002		ANCHO	ANCHOR	
INCLUDED	1	1	21	1	7	CB7G	AB3	AB4	
	142261	142265	1/4EHS	5/8TBE&J	3/8THH				
GUYS &	1775'	5275'	1150'	21	12			<b>40' RO</b> All parts :	HN 65G
CONNECTIONS INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH			table are i	included
	12	24	6	6	24		F	when or Part No: 6	rdering 5G90R440
	GAC5655TOP	APL1258UM	AGK1GGX	BGK2GGX	CPC1/1.25				
ANCHORS & GROUNDING	6	2	2	3	6				
INCLUDED	TBSAFETY	15/16x16PP							
	6	1							
TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNEF ANCHC	OUTER	
INCLUDED	1	1	22	1	8	CB7G	AB3	AB5	
	142261	142265	1/4EHS	3/4TBE&J	5/8TBE&J	3/8T	HH		
GUYS &	1850'	6850'	1025'	15	9	12	2		
CONNECTIONS INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH			160' RO	HN 65G
	12	30	6	6	30			All parts : table are	shown in
	GAC5655TOP	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1/1.25			when o	rdering
ANCHORS & GROUNDING	3	3	2	3	3		ŀ	art No: 6:	5G90R460
INCLUDED	CPC1.5/2	APL1258UM	TBSAFETY	15/16x16PP					
	3	2	6	1					
TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNEF ANCHC	R OUTER OR ANCHOR	
INCLUDED	1	1	23	1	8	CB7G	AB3	AB5	
	142261	142265	1/4EHS	3/4TBE&J	5/8TBE&J	3/8T	нн		



TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNER ANCHOF	OUTER ANCHOR	
INCLUDED	1	1	23	1	8	CB7G	AB3	AB5	
	142261	142265	1/4EHS	3/4TBE&J	5/8TBE&J	3/8T	нн		
GUYS &	1950'	7175'	1100'	15	9	12	2		
CONNECTIONS INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH		480	O' ROH	N 65G
	12	30	6	6	30			parts sh e are inc	
	GAC5655TOP	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1/1.25		W	hen ord No: 65G	ering
ANCHORS & GROUNDING	3	3	2	3	3		Fait	NO. 03G	901400
INCLUDED	CPC1.5/2	APL1258UM	TBSAFETY	15/16x16PP					
	3	2	6	1					





TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNER ANCHO	OUTER RANCHOR	
INCLUDED	1	1	24	1	8	CB7G	AB3	AB5	
	142261	142265	1/4EHS	3/4TBE&J	5/8TBE&J	3/8T	нн		,
GUYS &	2025'	7450'	1150'	15	9	12	2		
CONNECTIONS INCLUDED	BG2144	BG2146	BG2147	1/2THH	7/16THH			<b>0' ROH</b> I parts sh	
	12	30	6	6	30		tak	ole are in	cluded
	GAC5655TOP	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1/1.25			vhen ord t No: 65G	5
ANCHORS & GROUNDING	3	3	2	3	3				
INCLUDED	CPC1.5/2	APL1258UM	TBSAFETY	15/16x16PP					
	3	2	6	1					





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150'TOWER (46.4) OR [37.3]	TOWER PARTS	65TGH	6520G	APL4HA	GA65GD	BASE ANCHO	DR
183'	INCLUDED	1	7	1	3	CB3G AB3	150′ ROHN 65G
92' 3/16" EHS (399#) 151' - 1/4"EHS		142261	1/4EHS	3/16EHS	BG2142	BG2144	All parts shown in table are included
(665#)	GUYS & CONNECTIONS	600'	500'	425'	6	6	when ordering Part No: 65G110R150
46' 129'	INCLUDED	BG2147	5/8TBE&J	1/2THH	3/8THH	5/16THH	
P/N:65G110R150		6	9	6	6	6	
	ANCHORS & GROUNDING	GAC5655TOF	AGK1GG	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP
	INCLUDED	3	1	3	6	3	1
160' TOWER							FDNS
152' 45.6 OR 36.8 199' 20.6	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE ANCHOR
3/8″EHS (1,540#)	INCLUDED	1	1	7	1	3	CB3G AB3
100′ <sup>3/16″</sup> ЕНS (399#) г 1/4″ЕНS		142261	1/4EHS	3/16EHS	BG2142	BG2144	160' ROHN 65G
(665#) 52' 138'	GUYS & CONNECTIONS	650'	525'	450'	6	6	All parts shown in table are included
32 136 V 128'	INCLUDED	BG2147	5/8TBE&J	1/2THH	3/8THH	5/16THH	when ordering Part No: 65G110R160
P/N:65G110R160		6	9	6	6	6	
	ANCHORS & GROUNDING	GAC5655TOF	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP
	INCLUDED	3	1	3	3	3	1
170'TOWER		65TGH	6520G	APL4HA	CACEOD	FDNS	1
159' 44.8 OR 36.4 209' 20.2	TOWER PARTS INCLUDED					BASE ANCHO	170' ROHN 65G
☐ 3/8″EHS (1,540#)	GUYS &	1	8	1		CB3G AB3	All parts shown in table are included
106' 172' [ <sup>1/4"</sup> EHS (665#)	CONNECTIONS			44 BG2147		STHH 5/8TBE	when ordering Part No: 65G110R170
53' 146'	INCLUDED		1025' 12		-	12 9	
136'	ANCHORS & GROUNDING	GAC5655TOF				TBSAFETY	15/16x16PP
P/N:65G110R170	INCLUDED	3	1	3	3	3	1
180′ TOWER (44.1) OR 35.9	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR
168' <u>221'</u> <u>19.8</u>	INCLUDED	1	1	8	1	3	CB3G AB3 <b>180' ROHN65G</b>
112′ 3/8″ EHS (1,540#)	GUYS &	142261 1	/4EHS BG2 <sup>/</sup>	44 BG2147	1/2THH 3/8	зтнн 5/8тв	E&J All parts shown in table are included
182' T 1/4"EHS (665#)	CONNECTIONS INCLUDED	725'	1075' 12	6	6	12 9	when ordering Part No: 65G110R180
56' 155'	ANCHORS &	GAC5655TOF	AGK1GG	BGK2GGX	CPC1/1.25	TBSAFETY	



144

GROUNDING

INCLUDED

3

1

P/N:65G110R180

3

3

3

1

190'TOWER (43.4) OR 35.5 180' 224' (19.4)	TOWER PARTS	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHO	DR	
180' 236' ( <u>19.4</u> ) 3/8"EHS (1,540#)	INCLUDED	1	9	1	3	CB4G AB4		
120' 5/16" EHS (1,120#) 194'		142261	142265	1/4EHS	BG2144	BG2146		<b>D' ROHN 65G</b> parts shown in
1/4″EHS (665#)	GUYS & CONNECTIONS	750'	625'	525'	6	6	tab	le are included
60' 163'	INCLUDED	BG2147	5/8TBE&J	1/2THH	7/16THH	3/8THH		hen ordering No: 65G110R190
P/N:65G110R190		6	9	6	6	6	7	
	ANCHORS &	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	/ 15/16x16PP	
	GROUNDING INCLUDED	3	1	3	6	3	1	
				1				
200'TOWER 42.7 OR 35.1 186' (17.0)	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR	
245' ( <u>17.0</u> ) 3/8"EHS (1,540#)	INCLUDED	1	1	9	1	3	CB4G AB4	
124′ <b>5/16″EHS</b> (1,120#)		142261	142265	1/4EHS	BG2144	BG2146	20	0' ROHN 65G
202' 1/4"EHS (665#)	GUYS & CONNECTIONS	800'	650'	550'	6	6		parts shown in De are included
62' 172'	INCLUDED	BG2147	5/8TBE&J	1/2THH	7/16THH	3/8THH	Ň	when ordering No: 65G110R200
P/N: 65G110R200		6	9	6	6	6	Fait	NO. 030110N200
	ANCHORS &	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP	
	GROUNDING INCLUDED	3	1	3	3	3	1	
		-						
220'TOWER (41.6) OR 34.4 208' 272' (16.4)	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR	
3/8"EHS (1,540#)	INCLUDED	1	1	10	1	4	CB4G AB4	
156' 235' 5/16" EHS (1,120#)		142261	142265	1/4EHS	BG2144	BG2146	22	0' ROHN 65G
104' 204' 1/4" EHS (665#)	GUYS &	875'	750'	1250'	12	6	AI	l parts shown in ble are included
52' 184'	CONNECTIONS INCLUDED	BG2147	5/8TBE&J	1/2THH	7/16THH	3/8THH	, v	when ordering
P/N:65G110R220		6	12	6	6	12	rai	. NO. 0301101220
	ANCHORS &	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP	
	GROUNDING INCLUDED	3	1	3	3	3	1	
240'TOWER 40.6 OR 33.8 232' 301' 15.8	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR	
232' 301' 3/8" EHS (1,540#) 173'	INCLUDED	1	1	11	1	4	CB4G AB4	
258′ <b>–</b> 5/16″ EHS (1,120#)		142261	142265	1/4EHS	BG2144	BG2146	2	40' ROHN 65G
116' 224' 1/4" EHS (665#)	GUYS &	975'	825'	1375'	12	6		All parts shown in able are included
58' 201'	CONNECTIONS INCLUDED	BG2147	5/8TBE&J	1/2THH	7/16THH	3/8THH		when ordering rt No: 65G110R240
P/N:65G110R240		6	12	6	6	12	ra	
	ANCHORS &	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP	
	GROUNDING INCLUDED	3	1	3	3	3	1	
							J	



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# **STANDARD DESIGN - 65G** 110MPH REV. G, 90MPH REV. F

260' TOWER 39.6 OR 33.2 248' 15.2	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	EDNS BASE ANCHOR
186'-279'	INCLUDED	1	1	12	1	4	CB5G AB5
Г 5/16″ ЕНS		142261	142265	1/4EHS	BG2144	1/2THH	260' ROHN 65G
242', [ 1/4"EHS	GUYS & CONNECTIONS	1050'	1675'	700'	6	6	All parts shown in table are included
62' 217' (665#)	INCLUDED	7/16THH	3/4TBE&J	3/8THH	BG2146	BG2147	when ordering Part No: 65G110R260
P/N:65G110R260		12	12	6	12	6	
	ANCHORS & GROUNDING	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	15/16x16PP
	INCLUDED	3	1	3	3	3	1
280'TOWER 38.8 OR 32.7	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR
272' 14.8 352' 38" EHS (1,540#)	INCLUDED	1	1	13	1	5	CB5G AB5
162' 162'		142261	142265	1/4EHS	BG2144	BG2146	280' ROHN 65G
108' 276' (665#) 249'	GUYS & CONNECTIONS	1125'	1000'	2450'	18	6	All parts shown in table are included
54' 230'	INCLUDED	BG2147	7/16THH	3/4TBE&J	3/8THH	1/2THH	when ordering
P/N:65G110R280		6	6	15	18	6	Part No: 65G110R280
	ANCHORS &	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	15/16x16PP
	GROUNDING INCLUDED	3	1	3	6	3	1
300'TOWER 292' 38.0 OR 32.3 292' 14.4	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR
232'- 378'-3/8" EHS (1,540#)	INCLUDED	1	1	14	1	5	CB5G AB5
174'- 5/16"EHS		142261	142265	1/4EHS	BG2144	BG2146	300' ROHN 65G
296' (1,120#) 116' 267' (445 ) 116' 267' (665#)	GUYS & CONNECTIONS	1225'	2875'	800'	6	18	All parts shown in
58' 247'	INCLUDED	BG2147	3/4TBE&J	1/2THH	7/16THH	3/8THH	table are included when ordering
P/N:65G110R300		6	15	6	18	6	Part No: 65G110R300
	ANCHORS & GROUNDING	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	15/16x16PP
	INCLUDED	3	1	3	3	3	1
320'TOWER 312' 37.3 OR 31.8	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHOR
248' 404' 14.0	INCLUDED	1	1	15	1	5	CB6G AB6
3/8" EHS 356' (1,540#) 186' r5/16"EHS		142261	142265	1/4EHS	BG2144	BG2146	220' POHN 656
124′ 284′ (1,120#)	GUYS & CONNECTIONS	2425'	1925'	850'	6	12	320' ROHN 65G All parts shown in
62′ 263′ (665#)	INCLUDED	BG2147	3/4TBE&J	1/2THH	7/16THH	3/8THH	table are included when ordering
P/N: 65G110R320		12	15	12	12	6	Part No: 65G110R320
·	ANCHORS &	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	15/16x16PP
	GROUNDING INCLUDED	3	1	3	3	3	1



TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	BASE	INNER ANCHOR	OUTER ANCHOR	
INCLUDED	1	1	16	1	6	CB7G	AB3	AB5	
	142261	142265	1/4EHS	BG2144	BG2146	B	G2147		
GUYS & CONNECTIONS	2600'	2600'	350'	6	18		12		
INCLUDED	3/4TBE&J	5/8TBE&J	1/2THH	7/16THH	3/8THH			ROHN	
	12	6	12	18	6			rts show are inclu	
	GAC5655TOP	GAC5755TOP	AGK1GGX	BGK2GGX				n orderi 0:65G11	5
ANCHORS & GROUNDING	3	3	2	3					
INCLUDED	CPC1/1.25	CPC1.5/2	TBSAFETY	15/16x16PP					
	3	3	6	1					



Products LLC

### **STANDARD DESIGN - 65G** 130 MPH REV. G, 110 MPH REV. F



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150'TOWER (28.9) OR 23.3	TOWER PARTS	65TGH	6520G	APL4HA	GA65GD	FDNS BASE ANCHO	R
138' (10.2) 183' 3/8"EHS (1,540#)	INCLUDED	1	7	1	3	CB3G AB4	
92′ <sup>5/16″</sup> EHS (1,120#)		142261	142265	3/16EHS	BG2147	BG2146	<b>150' ROHN 65G</b> All parts shown in
151′ J3/16″EHS (399#)	GUYS &	600'	500'	425'	6	6	table are included when ordering
46' 129'	CONNECTIONS INCLUDED	BG2142	5/8TBE&J	1/2THH	7/16THH	5/16THH	Part No: 65G130R150
P/N:65G130R150		6	9	6	6	6	
	ANCHORS &	GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP
	GROUNDING INCLUDED	3	1	3	3	3	1
160'TOWER (28.4) OR [22.9] 152' 98	TOWER PARTS	65G	65TGH	6520G	APL4HA	GA65GD	EDNS BASE ANCHOR
152' 199' 3/8"EHS (1,540#)	INCLUDED	1	1	7	1	3 0	CB4G AB4
100' 5/16" EHS (1,120#)		142261	142265	1/4EHS	BG2147	BG2146	160' ROHN 65G
162′ [1/4″EHS (665#)	GUYS &	650'	525'	450'	6	6	All parts shown in table are included
52' 138'	CONNECTIONS INCLUDED	BG2144	5/8TBE&J	1/2THH	7/16THH	3/8THH	when ordering
P/N:65G130R160		6	9	6	6	6	Part No: 65G130R160
		GAC5655TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	15/16x16PP
	GROUNDING INCLUDED	3	1	3	3	3	1
170'TOWER □←(27.8) OR [22.7]		65TGH	65000		GA65GD	FDNS	
	TOWER PARTS	05101	6520G	APL4HA	GA05GD	BASE ANCHO	R
159' 9.6	TOWER PARTS INCLUDED	1	8	APL4HA 1			R
159' 209' 9.6 3/8"EHS (1,540#) 106' 5/16" EHS (1,120#)						BASE ANCHO	R 170' ROHN 65G
159' 9.6 3/8"EHS (1,540#) (5/16"EHS	INCLUDED GUYS &	1	8	1	3	BASE ANCHC CB4G AB4	
159' <u>9.6</u> 3/8"EHS (1,540#) 5/16" EHS (1,120#) <b>172' r</b> 1/4"EHS	INCLUDED	1 142261	8 142265	1 1/4EHS	3 BG2147	BASE ANCHC CB4G AB4 BG2146	<b>170' ROHN 65G</b> All parts shown in table are included when ordering
159' 209' 9.6 3/8"EHS (1,540#) 106' 172' 14"EHS (665#)	GUYS & CONNECTIONS	1 142261 675'	8 142265 550'	1 1/4EHS 475'	3 BG2147 6	BASE ANCHC CB4G AB4 BG2146 6	<b>170' ROHN 65G</b> All parts shown in table are included
159' 209' 9.6 38"EHS 106' 516" EHS (1,120#) 172' 1/4"EHS 53' 146' 3136'	GUYS & CONNECTIONS INCLUDED	1 142261 675' BG2144	8 142265 550' 5/8TBE&J 9	1 1/4EHS 475' 1/2THH	3 BG2147 6 7/16THH 6	BASE ANCHC CB4G AB4 BG2146 6 3/8THH 6	<b>170' ROHN 65G</b> All parts shown in table are included when ordering
159' 209' 9.6 38"EHS 106' 516" EHS (1,120#) 172' 1/4"EHS 53' 146' 3136'	GUYS & CONNECTIONS INCLUDED	1 142261 675' BG2144 6	8 142265 550' 5/8TBE&J 9	1 1/4EHS 475' 1/2THH 6	3 BG2147 6 7/16THH 6	BASE ANCHC CB4G AB4 BG2146 6 3/8THH 6	<b>170' ROHN 65G</b> All parts shown in table are included when ordering Part No: 65G130R170
159' 209' 9.6 386"HS (1,500#) 106' 172' 146"HS 53' 146' 1656HS 53' 146' 1656HS P/N: 65G130R170	GUYS & CONNECTIONS INCLUDED ANCHORS & GROUNDING	1 142261 675' BG2144 6 GAC5655TOP	8 142265 550' 5/8TBE&J 9 AGK1GGX	1 1/4EHS 475' 1/2THH 6 BGK2GGX	3 BG2147 6 7/16THH 6 CPC1/1.25	BASE ANCHC CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1
159' 209' 9.6 38"HS 106' 1,540H 106' 1,120H 106' 1,120H 146' 14"EHS 53' 146' 336' P/N: 65G130R170	GUYS & CONNECTIONS INCLUDED ANCHORS & GROUNDING INCLUDED TOWER PARTS	1 142261 675' BG2144 6 GAC5655TOP	8 142265 550' 5/8TBE&J 9 AGK1GGX	1 1/4EHS 475' 1/2THH 6 BGK2GGX	3 BG2147 6 7/16THH 6 CPC1/1.25	BASE ANCHC CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY 3	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP
159' 9.6 38"EHS 106' 5116"EHS (1,120#) 53' 146' 1665#) 53' 146' 1655#) 9/N: 65G130R170 180'TOWER (27.4) OR [22.4] 168' 9.4 168' 9.4 168' 100 CE	GUYS & CONNECTIONS INCLUDED	1 142261 675' BG2144 6 GAC5655TOP 3	8 142265 550' 5/8TBE&J 9 AGK1GGX 1	1 1/4EHS 475' 1/2THH 6 BGK2GGX 3	3 BG2147 6 7/16THH 6 CPC1/1.25 3	BASE ANCHO CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY 3 GA65GD	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1
159' 209' 9.6 38"HS 106' 1,120#) 106' 172' 14"EHS 53' 146' 136" P/N: 65G130R170 180'TOWER 168' 221' 9.6 180'TOWER 168' 221' 9.6 168' 5/16" EHS (1,540#) 5/16" EHS (1,120#)	GUYS & CONNECTIONS INCLUDED ANCHORS & GROUNDING INCLUDED TOWER PARTS	1 142261 675' BG2144 6 GAC5655TOP 3 65G	8 142265 550' 5/8TBE&J 9 AGK1GGX 1 65TGH	1 1/4EHS 475' 1/2THH 6 BGK2GGX 3 6520G	3 BG2147 6 7/16THH 6 CPC1/1.25 3 APL4HA	BASE ANCHO CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY 3 GA65GD	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1 1 FDNS BASE ANCHOR
159' 209' 9.6 38"EHS 106' 5/16"EHS 106' 772' 1/4"EHS 53' 146' 336' P/N: 65G130R170 168' 221' 9.4 168' 1.120#) 168' 1.120#) 109' 9.6 114'' 1.120#) 106' 1.120#)	GUYS & CONNECTIONS INCLUDED ANCHORS & GROUNDING INCLUDED TOWER PARTS INCLUDED GUYS &	1 142261 675' BG2144 6 GAC5655TOP 3 65G 1	8 142265 550' 5/8TBE&J 9 AGK1GGX 1 65TGH 1	1 1/4EHS 475' 1/2THH 6 BGK2GGX 3 6520G 8	3 BG2147 6 7/16THH 6 CPC1/1.25 3 APL4HA 1	BASE ANCHO CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY 3 GA65GD	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1 1 FDNS BASE ANCHOR CB4G AB4
159' 209' 9.6 106' 1(15400H) 106' 172' 1/4"EHS 165' 1(65H) 53' 146' 16' 14' P/N: 65G130R170 168' 221' 9.4 168' 108'EHS 112' 182' 155' 155' 155' 155' 155' 155' 155' 15	GUYS & CONNECTIONS INCLUDED ANCHORS & GROUNDING INCLUDED TOWER PARTS INCLUDED	1 142261 675' BG2144 6 GAC5655TOP 3 3 65G 1 142261	8 142265 550' 5/8TBE&J 9 AGK1GGX 1 65TGH 1 142265	1 1/4EHS 475' 1/2THH 6 BGK2GGX 3 6520G 8 8 BG2147	3 BG2147 6 7/16THH 6 CPC1/1.25 3 APL4HA 1 BG2146	BASE ANCHO CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY 3 GA65GD	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1 1 <u>FDNS</u> BASE ANCHOR CB4G AB4 <b>180' ROHN 65G</b> All parts shown in table are included when ordering
159' 209' 9.6 38"EHS 106' 5/16"EHS 106' 772' 1/4"EHS 53' 146' 336' P/N: 65G130R170 168' 221' 9.4 168' 1.120#) 168' 1.120#) 109' 9.6 114'' 1.120#) 106' 1.120#)	GUYS & CONNECTIONS INCLUDED ANCHORS & GROUNDING INCLUDED TOWER PARTS INCLUDED GUYS & CONNECTIONS	1 142261 675' BG2144 6 GAC5655TOP 3 65G 1 142261 725'	8 142265 550' 5/8TBE&J 9 AGK1GGX 1 65TGH 1 142265 1075'	1 1/4EHS 475' 1/2THH 6 BGK2GGX 3 6520G 8 8 BG2147 6	3 BG2147 6 7/16THH 6 CPC1/1.25 3 APL4HA 1 BG2146 12	BASE ANCHO CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY 3 GA65GD	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1 1 FDNS BASE ANCHOR CB4G AB4 180' ROHN 65G All parts shown in table are included
159' 209' 9.6 38"H5 106' 172' 14"H5 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 16"H5 166' 155' 9.10 112' 9.4 112' 9.4 112' 9.4 112' 182' 156' 155' 112' 144'	INCLUDED GUYS & CONNECTIONS INCLUDED ANCHORS & GROUNDING INCLUDED TOWER PARTS INCLUDED GUYS & CONNECTIONS INCLUDED ANCHORS &	1 142261 675' BG2144 6 GAC5655TOP 3 65G 1 142261 725' 5/8TBE&J	8 142265 550' 5/8TBE&J 9 AGK1GGX 1 65TGH 142265 1075' 1/2THH 6	1 1/4EHS 475' 1/2THH 6 BGK2GGX 3 6520G 8 8 6520G 8 8 BG2147 6 7/16THH 12	3 BG2147 6 7/16THH 6 CPC1/1.25 3 APL4HA 1 BG2146 12 TBSAFETY 3	BASE ANCHO CB4G AB4 BG2146 6 3/8THH 6 TBSAFETY 3 GA65GD	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1 1 55/16x16PP 1 1 564G AB4 180' ROHN 65G All parts shown in table are included when ordering Part No: 65G90R180
159' 209' 9.6 38"H5 106' 172' 14"H5 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 146' 165H 53' 16"H5 166' 155' 9.10 112' 9.4 112' 9.4 112' 9.4 112' 182' 156' 155' 112' 144'	GUYS & CONNECTIONS INCLUDED	1 142261 675' BG2144 6 GAC5655TOP 3 3 65G 1 142261 725' 5/8TBE&J 9	8 142265 550' 5/8TBE&J 9 AGK1GGX 1 65TGH 142265 1075' 1/2THH 6	1 1/4EHS 475' 1/2THH 6 BGK2GGX 3 6520G 8 8 6520G 8 8 BG2147 6 7/16THH 12	3 BG2147 6 7/16THH 6 CPC1/1.25 3 APL4HA 1 BG2146 12 TBSAFETY 3	BASE ANCHO CB4G AB4 BG2146 3/8THH 6 TBSAFETY 3 GA65GD 3	170' ROHN 65G All parts shown in table are included when ordering Part No: 65G130R170 15/16x16PP 1 1 55/16x16PP 1 1 564G AB4 180' ROHN 65G All parts shown in table are included when ordering Part No: 65G90R180





TOWER PARTS	65TGH	65	6520G		APL4HA	GA65GD			DNS E ANCHOR			
INCLUDED	1	9		1		3		CB40	4G AB4		<b>19</b>	
GUYS & CONNECTIONS	142261 1	42265	BG214	17	BG2146	7/16THH	1/2	THH	5/8TBE	E&J	ta	۱k ۷
INCLUDED	750'	1150'	6		12	12		6	9		Par	rt
ANCHORS & GROUNDING INCLUDED	GAC5655TO	C5655TOP AGK1GGX		B	GK2GGX	CPC1/1.	25	5 TBSAFE		15/16x16PP		
	3	1			3	3		3			1	

**190' ROHN 65G** All parts shown in

table are included when ordering Part No: 65G130R190



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# GUYED TOWERS - 65G



		SAFETY CABLE SYSTEM ORDERING INFORMATION				
	TOWER HEIGHT	PART NUMBER				
<b>%</b> .	50′	TT05065				
	100′	TT10065				
	150′	TT15065				
	200′	TT20065				
	250′	TT25065				
N.C.	300′	TT30065				
	350′	TT35065				
	400′	TT40065				
	450′	TT45065				
SAFETY CABLE SLIDER WITH CARABINEER	500′	TT50065				
TT-WG-500-W/SMC	SAFETY CABLE SLIDER AND CLIMBING HARNESS MUST BE ORDERED SEPARATELY.					


—— GUYED TOWERS - 65G-



#### STANDARD ANCHOR BLOCKS



#### Refer to page 145 for anchor rod installation angles.

Diada	Anch	or Dim	ensior	ns (in.)	Horizontal Bars	Stirrup Size	Concrete Vol.
Block	Α	В	С	D	(Qty. & Size)	& Spacing	Concrete Vol. (Cu. Yds.)
AB2	4'-0"	1' - 6″	4' - 0"	6' - 0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#3 @ 12″ O.C.	1.33 Per Block 4.0 Total for 3
AB3	6'-0"	1'-6″	3'- 0"	6' - 0"	(4) #6 Bars, Top Layer (4) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″ O.C.	1.0 Per Block 3.0 Total for 3
AB4	6' - 0″	1'-6"	4' - 0"	9'-0"	<ul><li>(5) #6 Bars, Top Layer</li><li>(5) #6 Bars, Bottom Layer</li><li>(0) Additional Bar, Each Side</li></ul>	#4 @ 12″ O.C.	2.0 Per Block 6.0 Total for 3
AB5	8'-0"	2'-0"	3'-0"	10' - 0"	(4) #7 Bars, Top Layer (4) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4 @ 12″ O.C.	2.22 Per Block 6.7 Total for 3
AB6	8'-0"	2'-0"	4'- 0"	10' - 0"	(5) #7 Bars, Top Layer (5) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4 @ 12″ O.C.	2.96 Per Block 8.9 Total for 3



#### ANCHOR ROD INSTALLATION ANGLES





	65G	90N	1PH		65G   110MPH					65G   130MPH			
Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle	Tower Height	Inner Rod Number	Inner Rod Angle	Outer Rod Number	Outer Rod Angle	Tower Height	Rod Number	Rod Angle	
100′	GAC3455TOP	44	-	-	100′	GAC3455TOP	44	-	-	100′	GAC5655TOP	42	
110′	GAC3455TOP	44	-	-	110′	GAC3455TOP	43	-	-	110′	GAC5655TOP	42	
120′	GAC3455TOP	44	-	-	120′	GAC5655TOP	42	-	-	120′	GAC5655TOP	41	
130′	GAC3455TOP	44	-	-	130′	GAC5655TOP	42	-	-	130′	GAC5655TOP	41	
140′	GAC3455TOP	42	-	-	140′	GAC5655TOP	41	-	-	140′	GAC5655TOP	40	
150′	GAC3455TOP	42	-	-	150′	GAC5655TOP	41	-	-	150′	GAC5655TOP	40	
160′	GAC5655TOP	42	-	-	160′	GAC5655TOP	41	-	-	160′	GAC5655TOP	40	
170′	GAC5655TOP	41	-	-	170′	GAC5655TOP	40	-	-	170′	GAC5655TOP	39	
180′	GAC5655TOP	41	-	-	180′	GAC5655TOP	40	-	-	180′	GAC5655TOP	38	
190′	GAC5655TOP	41	-	-	190′	GAC5655TOP	40	-	-	190′	GAC5655TOP	38	
200′	GAC5655TOP	41	-	-	200′	GAC5655TOP	39	-	-				
220′	GAC5655TOP	40	-	-	220′	GAC5655TOP	39	-	-				
240′	GAC5655TOP	39	-	-	240′	GAC5655TOP	38	-	-				
260′	GAC5655TOP	39	-	-	260′	GAC5755TOP	38	-	-				
280′	GAC5655TOP	38	-	-	280′	GAC5755TOP	37	-	-				
300′	GAC5655TOP	38	-	-	300′	GAC5755TOP	37	-	-				
320′	GAC5655TOP	38	-	-	320′	GAC5755TOP	37	-	-				
340′	GAC3455TOP	43	GAC5655TOP	43	340′	GAC5655TOP	43	GAC5755TOP	42				
360′	GAC3455TOP	43	GAC5655TOP	43									
380′	GAC3455TOP	43	GAC5655TOP	43									
400′	GAC3455TOP	40	GAC5655TOP	44									
420′	GAC5655TOP	40	GAC5655TOP	43									
440′	GAC5655TOP	40	GAC5655TOP	43									
460′	GAC5655TOP	40	GAC5755TOP	42									
480′	GAC5655TOP	40	GAC5755TOP	42									
500′	GAC5655TOP	39	GAC5755TOP	42									



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Base	Α	В	с	D	E	F	Concrete Vol. (Cu. Yds.) Round Pier	Vertical Bars (No. & Size)	Horiz. Bars in Pad (No. & Size)
CB2G	3'-0"	3'-0"	N/A	4'-0"	N/A	N/A	1.2	(10) #7	NONE
CB3G	3'-6"	3'-6"	N/A	4'-0"	N/A	N/A	1.6	(12) #7	NONE
CB4G	4'-0"	4' - 0"	N/A	4'-0"	N/A	N/A	2.1	(12) #8	NONE
CB5G	2'-0"	4' - 0"	1'-0"	4'-0"	3'-3"	1′-3″	1.1	(8) #6	(5) #5 (Total of 10)
CB6G	2'-0"	4'-6"	1'-3"	4'-0"	3'-3"	1'-3"	1.3	(8) #6	(6) #5 (Total of 12)
CB7G	2'-0"	5'-0"	1'-6"	4'-6"	3'-9"	1'-3"	1.6	(8) #6	(6) #5 (Total of 12)

#### STANDARD BASE PIERS

GUYED TOWERS - 65G-



#### **GENERAL NOTES FOR G-SERIES TOWERS**

1. The suitability of a ROHN standard design and standard foundation for a specific application must be verified by the purchaser based on site-specific data in accordance with ANSI/TIA-222-G.

2. The effective projected area and lines to be installed must not exceed the design values for the structure.

3. Structures supported on buildings or other strucutres require special consideration. Designs assume structures are installed on level grade.

4. Designs assume maintenance and inspection will be performed over the life of the structure in accordance with ANSI/TIA-222-G. All towers should be thoroughly inspected by qualified personnel and re-marked as required with appropriate danger and anti-climb labels at least twice a year to ensure safety and proper performance.

5. Standard Designs are intended to be climbed by skilled and competent climbers only. A safety climb system is required for all structures.

6. Installation and dismantling must be performed by qualified and experienced personnel and be in conformance with ANSI/TIA-222-G.

7. Standard guyed masts and bracketed towers are not stable without guys or brackets attached and will not support personnel in this condition. Temporary steel guys supplied by a qualified contractor may be required to maintain stability during installation or dismantling.

8. Do not install or dismantle structures within falling distance of electrical and/or telephone lines without taking special precautions in accordance with the appropriate utility.

9. All field connections are bolted.

10. The tolerance on installed height is equal to plus 1% and minus 1/2%.

11. Installation must be grounded in accordance with local and national codes. ANSI/TIA-222-G requires that the resistance to ground must not exceed 10 ohms. Additional grounding may be required in addition to the ROHN standard grounding kit provided with the tower.

12. Additional anchor rod corrosion protection may be required based on site-specific conditions.

13. Installation must be in conformance with local, state and federal requirements for obstruction marking and lighting.

14. Warning plate P/N: AWCS provided with the structure must be installed in a highly visible location.

#### **G-SERIES FOUNDATION GENERAL NOTES**

1. Standard foundation designs (unless otherwise noted) are in accordance with ANSI/TIA-222-G, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," Section 9 and Annex F for the following presumptive clay soil parameters:

N (blows/ft)	ф (deg)	Y (lb/ft <sup>3</sup> )	c (psf)	Ultimate Bearing (psf)		Ultimate Skin Friction	k (pci)	<b>E</b> 50
			•	Shallow Fdns.	Deep Fdns.	(psf)	•	
8	0	110	1000	5000	9000	500	150	0.01

2. The purchaser must verify that actual site soil parameters meet or exceed the assumed soil conditions and that the depth of standard foundations are adequate based on the frost penetration and/or zone of seasonal moisture variation at the site. Foundation design modifications may be required in the event the assumed soil parameters are not applicable for the actual subsurface conditions encountered.



#### **G-SERIES FOUNDATION GENERAL NOTES**

3. Foundation designs assume field inspections will be performed by the purchasers' representative to verify that construction materials, installation methods and assumed design parameters are acceptable based on the conditions existing at the site.

4. Work shall be in accordance with local codes, safety regulations and unless otherwise noted, the latest revision of ACI 318, "Building Code Requirements for Reinforced Concrete." Procedures for the protection of excavations, existing construction and utilities shall be established prior to foundation installations.

5. Concrete materials shall conform to the appropriate state requirements for exposed structural concrete.

6. Proportions of concrete materials shall be suitable for the installation method utilized and shall result in durable concrete for resistance to local anticipated aggressive actions. The durability requirement of ACI 318 Chapter 4 shall be satisfied based on the conditions expected at the site. As a minimum, concrete shall develop a minimum compressive strength of 4000 psi in 28 days.

7. Maximum size of aggregate shall not exceed the size suitable for the installation method utilized or 1/3 the clear distance behind or between reinforcing. Maximum size may be increased to 2/3 the clear distance provided workability and methods of consolidation such as vibrating will prevent honeycombs or voids.

8. Reinforcement shall be deformed and conform to the requirements of ASTM A615 Grade 60 unless otherwise noted. Splices in reinforcement shall not be allowed unless otherwise indicated.

9. Reinforcing cages shall be braced to retain proper dimensions during handling and throughout placement of concrete.

10. Welding is prohibited on reinforcing steel and embedments.

11. Minimum concrete cover for reinforcement shall be 3 inches unless otherwise noted. Appropriate spacers shall be used to insure a 3 inch minimum cover on reinforcement.

12. Concrete cover from top of foundations to ends of vertical reinforcement shall not exceed 3 inches nor be less than 2 inches.

13. Spacers shall be attached intermittently throughout the entire length of vertical reinforcing cages to insure concentric placement.

14. Foundation designs assume structural backfill to be compacted in 8 inch maximum layers to 95% of maximum dry density at optimum moisture content in accordance with ASTM D698. Additionally, structural backfill must have a minimum compacted until weight of 100 pounds per cubic foot.

15. Foundation designs assume level grade at the site.

16. Foundation installations shall be supervised by personnel knowledgeable and experienced with the proposed foundation type. Construction shall be in accordance with generally accepted installation practices.

17. Loose material shall be removed from bottom of excavations prior to concrete placement. Sides of excavations shall be rough and free of loose cuttings.

18. Concrete shall be placed in a manner that will prevent segregation of concrete materials and other occurrences which may decrease strength or durability.

19. Free fall concrete may be used provided fall is vertical down without hitting sides of excavation, form work, reinforcing bars, form ties, cage bracing or other obstructions. Under no circumstances shall concrete fall through water.

20. Concrete shall be placed against undisturbed soil except for piers in pier and pad foundations. Forms for piers shall be removed prior to placing structural backfill.

21. Construction joints, if required in piers must be at least 12 inches below bottom of embedments and must be intentionally roughened to a full amplitude of 1/4 inch. Foundation designs assume no other construction joints.

22. Tops of foundations shall be sloped to drain with a floated finished.

23. Exposed edges of concrete shall be chamfered 3/4" x 3/4".

24. Additional corrosion protection may be required for steel guy anchors in direct contact with soil. Design assumes periodic inspections will be performed over the life of the structure to determine if additional anchor corrosion protection measures must be implemented based on observed site-specific conditions.



#### GUYED TOWERS-

#### FOUNDATION TOLERANCES

#### GENERAL

- 1. Concrete dimensions plus 2" or minus 0".
- 2. Depth of foundation plus 3" or minus 0".
- 3. Drilled foundations out-of-plumb 1.0 degree.
- 4. Reinforcing steel placement per A.C.I. 301.
- 5. Projection of embedments plus or minus 1/8".
- 6. Vertical embedments out of plumb 0.5 degree.

#### **GUY ANCHORS**

- 1. Guy radius plus or minus 5% of distance specified.
- 2. Anchor elevation plus or minus 5% of guy radius.
- 3. Anchor alignment (perpendicular to guy radius) 1.0 degree.
- 4. Anchor rod slope plus or minus 1.0 degree.
- 5. Anchor rod alignment with guy radius plus or minus 1.0 degree.
- 6. Anchor head out of plumb 1.0 degree.
- 7. Guy initial tension plus or minus 10% of tension specified.

Note: Tolerances in notes 1 & 2 cannot occur simultaneously.





#### **GUY ARRANGEMENT DETAILS**



4 Guy Attachment

5 Guy Attachment

Wire Size	Anchor Rod	Turnbuckle	Thimble	Big Grip w/ End Sleeve
3/16 EHS	GAC3455TOP	1/2TBE&J	5/16THH	BG2142
5/10 EI15	GAC5655TOP	5/8TBE&J	5/16THH	DG2142
	GAC3455TOP	1/2TBE&J	3/8THH	
1/4EHS	GAC5655TOP	5/8TBE&J	3/8THH	BG2144
	GAC5755TOP	3/4TBE&J	3/8THH	
	GAC3455TOP	5/8TBE&J	7/16THH	
5/16EHS	GAC5655TOP	5/8TBE&J	7/16THH	BG2146
	GAC5755TOP	3/4TBE&J	7/16THH	
	GAC3455TOP	5/8TBE&J	1/2THH	
3/8EHS	GAC5655TOP	5/8TBE&J	1/2THH	BG2174
	GAC5755TOP	3/4TBE&J	1/2THH	



#### **GUY ANCHOR CONNECTION DETAILS**



**Anchor Connection** 





#### **GUY MAST CONNECTION DETAILS**









GUYED TOWERS-

#### PAL NUT INSTALLATION



When pal nuts are provided, they are to be installed after nuts are tight and with edge lip out as shown. Pal nuts are not required when self-locking nuts or lock washers are provided.



#### **STANDARD 80 SERIES GUYED TOWER**

GUYED TOWERS - 80-

Products LLC

### **80** SERIES

#### **GENERAL USE**

The ROHN Model 80 Guyed Tower is designed with variable sized legs and braces to allow construction to heights of 1000'. This tower uses solid or tubular legs with angle or tubular braces to support microwave, cellular, PCS, AM/FM or TV applications. The tower is designed on an equilateral triangle of 41" center-to-center of each leg. The variable leg and brace sizes allow flexibility in design so a tower can be created specifically for your unique requirements.

#### FEATURES

- Solid or Tubular Legs
- Angle or Tubular Braces
- Completely hot-dip galvanized after fabrication
- Easily reinforced for additional loading capability
- Multiple section lengths available
- Guy lug and torque arm sections available

*Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.* 

GUYED TOWERS - 80-



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Products LLC

#### GUYED TOWERS - 90 -

#### **STANDARD 90 SERIES GUYED TOWER**



# **90** SERIES

#### **GENERAL USE**

The ROHN Model 90 Guyed tower is designed specifically for microwave installations, cellular, PCS, other heavy duty communication, TV and FM broadcast and meteorological equipment installations. This series has a rating for installations up to 1500', using variable size and weight of tubular or solid steel components. The tower is designed on an equilateral triangle of 60 1/2" center-to-center of each leg. The "X" brace design of the 90 series maximizes strength in critical areas as well as allows for future upgrading of the tower for additional loads.

#### FEATURES

- Solid or Tubular Legs
- Angle Braces
- Completely hot-dip galvanized after fabrication
- Easily reinforced for additional loading capability
- Multiple section lengths available
- Guy lug and torque arm sections available

*Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.* 



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# BRACKETED TOWERS



#### **STANDARD G-SERIES BRACKETED**



Typical installation on short base with (2) HBUTVRO brackets.

(Refer to G-Series accessories for short base)

# **G-SERIES** (BRACKETED)

#### **GENERAL USE**

ROHN G-Series Bracketed towers can be installed adjacent to buildings using brackets to secure the tower along the height of the structure.

#### FEATURES

- Completely hot-dip galvanized after fabrication
- Cross bracing is formed by a continuous solid rod bracing fashioned into a Zig-Zag pattern for strength
- Pre-engineered loading charts to meet varying individual specs and site conditions
- Typical uses include: small dishes, broadband, security and two-way communication.

#### OPTIONAL ACCESSORY



\* Per Rev. G requriements, any structure greater than 10' requires a climber safety device. Please see page 209 for ordering information.



		-				1
Tower Height	Bracket E	levations	Allowabl			
(FT.)	Upper (FT.)	Lower (FT.)	70 [85] MPH	80 [95] MPH	90 [105] MPH	
40	30.0	15.0	15.3	11.3	7.7	
50	36.0	18.0	14.6	10.0	6.8	
60	46.0	23.0	14.0	8.9	5.9	25
70	56.0	28.0	13.5	8.3	5.5	
80	66.0	33.0	13.1	7.7	5.0	
90	66.0	33.0	6.8	4.9	-	
100	66.0	33.0	1.7	-	-	

#### 25G BRACKETED Allowable Antenna Areas

1. Tower designs are in accordance with ANSI/EIA-222-F. Wind speeds indicated as fastest mile [3-second gust].

2. All towers must have "fixed bases" with both bracket elevations. Pinned bases must not be used.

3. Designs assume one 5/8" transmission line on each face (total=3), symmetrically placed.

4. Antennas and mounts assumed symmetrically placed at tower apex.

5. Allowable antenna areas assume all round antenna members.

6. Allowable flat-plate antenna areas, based on EIA RS-222-C, may be obtained by multiplying areas shown by 0.6.

7. All brackets are to be ROHN (P/N HBUTVRO).

8. The interface of tower brackets to supporting structure is to be designed by others and must support a minimum horizontal force of 815 lbs.

9. Foundation designs are in accordance with ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," Section 7, for "Normal" soil conditions. "Normal" soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 PSF and an allowable net horizontal pressure of 400 PSF per linear foot of depth to a maximum of 4000 PSF.

Refer to pages 147-153 for General Installation and Foundation Notes.

#### FOUNDATION INFORMATION





#### **VOLUME OF CONCRETE**

 $\begin{array}{rcl} \text{Square Pier} &=& 1.0 \text{ cu. yds.} \\ \text{Round Pier} &=& 0.8 \text{ cu. yds.} \end{array}$ 



	Tower Height	Bracket E	levations	Allowable Antenna Areas (SQ. FT.)				
	(FT.)	Upper (FT.)	Lower (FT.)	70 [85] MPH	80 [95] MPH	90 [105] MPH		
	40	30.0	15.0	36.7	27.4	21.0		
	50	36.0	18.0	34.8	25.9	20.0		
<b>45G</b>	60	46.0	23.0	33.3	24.7	19.0		
TJU	70	56.0	28.0	32.0	23.8	17.0		
	80	66.0	33.0	31.0	23.0	12.0		
	90	66.0	33.0	13.8	9.3	5.3		
	100	66.0	33.0	5.5	2.0	-		
						<u> </u>		

#### **45G BRACKETED** ALLOWABLE ANTENNA AREAS

1. Tower designs are in accordance with ANSI/EIA-222-F. Wind speeds indicated as fastest mile [3-second gust].

2. All towers must have "fixed bases" with both bracket elevations. Pinned bases must not be used.

3. Designs assume one 5/8" transmission line on each face (total=3), symmetrically placed.

4. Antennas and mounts assumed symmetrically placed at tower apex.

5. Allowable antenna areas assume all round antenna members.

6. Allowable flat-plate antenna areas, based on EIA RS-222-C, may be obtained by multiplying areas shown by 0.6.

7. All brackets are to be ROHN (P/N HBUTVRO).

8. The interface of tower brackets to supporting structure is to be designed by others and must support a minimum horizontal force of 1810 lbs.

9. Foundation designs are in accordance with ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," Section 7, for "Normal" soil conditions. "Normal" soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 PSF and an allowable net horizontal pressure of 400 PSF per linear foot of depth to a maximum of 4000 PSF.

Refer to pages 147-153 for General Installation and Foundation Notes.

#### SB45G5 Base Section or Tower Base Section 6" Min. 6" Projection Grade 2' - 6" Round or Square #3 Circular Ties at 3" Max O.C. W/ 18" Laps 4' - 0" (8) #7 Vertical Tower Axis and Center of Pier Bars Equally Spaced **VOLUME OF CONCRETE** ?" Min Square Pier = 1.0 cu. yds.6″ Round Pier = 0.8 cu.yds.1 Compacted Sand & Gravel Drainage Bed



#### FOUNDATION INFORMATION -

Tower Height	Bracket E	levations	Allowabl	Allowable Antenna Areas (SQ. FT.)					
(FT.)	Upper (FT.)	Lower (FT.)	70 [85] MPH	80 [95] MPH	90 [105] MPH				
40	30.0	15.0	72.4	54.5	41.8				
50	36.0	18.0	68.7	51.7	39.4				
60	46.0	23.0	65.8	49.5	37.6	55			
70	56.0	28.0	63.5	47.5	36.0				
80	66.0	33.0	61.4	46.0	34.6				
90	66.0	33.0	30.6	22.0	16.0				
100	66.0	33.0	16.0	10.5	6.4				

#### 55G BRACKETED ALLOWABLE ANTENNA AREAS

1. Tower designs are in accordance with ANSI/EIA-222-F. Wind speeds indicated as fastest mile [3-second gust].

- 2. All towers must have "fixed bases" with both bracket elevations. Pinned bases must not be used.
- 3. Designs assume one 5/8" transmission line on each face (total=3), symmetrically placed.
- 4. Antennas and mounts assumed symmetrically placed at tower apex.
- 5. Allowable antenna areas assume all round antenna members.
- 6. Allowable flat-plate antenna areas, based on EIA RS-222-C, may be obtained by multiplying areas shown by 0.6.
- 7. All brackets are to be ROHN (P/N HBUTVRO).
- 8. The interface of tower brackets to supporting structure is to be designed by others and must support a minimum horizontal force of 3200 lbs.
- 9. Foundation designs are in accordance with ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," Section 7, for "Normal" soil conditions. "Normal" soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 PSF and an allowable net horizontal pressure of 400 PSF per linear foot of depth to a maximum of 4000 PSF.

Refer to pages 147-153 for General Installation and Foundation Notes.





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# SELF-SUPPORTING TOWERS



#### STANDARD G-SERIES SELF-SUPPORTING





Typical Self-Supporting 25G, 45G and 55G Tower

Typical Self-Supporting 45GSR and 65G Tower

### **G-SERIES** SELF-SUPPORTING

#### **GENERAL USE**

The self-supporting G-Series towers offer an easy, low-cost solution to get light weight antennas in the air quickly. By using the G-Series tower as a self-supporting structure, you minimize land area usage. They are functional in a wide variety of wind speeds. See ROHN's standard designs to help identify the right structure for your project. These are the same sturdy, robust tower sections that ROHN has fabricated for years. Each larger model allows for more loading capacity.

#### FEATURES

- Completely hot-dip galvanized after fabrication
- Cross bracing is formed by a continuous solid rod bracing fashioned into a zig-zag pattern for strength
- Pre-engineered loading charts meet varying individual specs and site conditions
- Typical uses include: small dishes, broadband, security and two-way communication
- All towers have 'fixed' bases

#### KITS

The kit part numbers for ROHN Self-Supporting G-Series towers include:

- Short base for embedment in concrete
- Rev F ground kit
- All tower sections and connection hardware
- Tapered top (25G and 45G towers)
- Top plate (55G towers)
- Cap plate kit (65G towers)

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 209 for ordering information.



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#### **G SERIES REV. F** ALLOWABLE ANTENNA AREAS (SQ. FT.)

**70 MPH** Fastest Mile

	70 MPH Fastest Mile Wind Speed - No Ice												
		25G		45G		55G	65G						
Height	FT <sup>2</sup>	Part No.	FT <sup>2</sup>	Part No.	FT <sup>2</sup>	Part No.	FT <sup>2</sup>	Part No.					
10′	19.7	25SS010	42.5	45SS010	75.0	55SS010	95.0	65SS010					
20′	14.2	2555020	22.0	45SS020	43.0	55SS020	95.0	65SS020					
30′	6.4	25SS030	12.0	45SS030	26.0	55SS030	76.2	65SS030					
35'	3.6	25SS035	8.7	45SS035	21.9	55SS035	61.2	65SS035					
40′	1.5	2555040	5.1	45SS040	15.0	55SS040	48.8	65SS040					
45'			2.3	45SS045	11.4	55SS045	39.0	65SS045					
50′					6.5	55SS050	29.3	65SS050					
55'					4.0	55SS055	24.4	65SS055					
60′					0.8	55SS060	18.4	65SS060					
70′							8.7	65SS070					
80′							0.9	65SS080					

80 MPH Fastest Mile

80 MPH Fastest Mile Wind Speed - No Ice												
		25G		45G		55G		65G				
Height	FT <sup>2</sup>	Part No.										
10′	14.3	25SS010	30.0	45SS010	57.0	55SS010	95.0	65SS010				
20′	9.0	25SS020	16.0	45SS020	30.0	55SS020	85.0	65SS020				
30′	3.7	25SS030	7.5	45SS030	17.0	55SS030	55.8	65SS030				
35'	1.4	25SS035	4.7	45SS035	14.5	55SS035	44.0	65SS035				
40′			1.4	45SS040	8.0	55SS040	34.1	65SS040				
45'					5.9	55SS045	26.2	65SS045				
50′					1.5	55SS050	19.7	65SS050				
55'							14.5	65SS055				
60′							9.4	65SS060				
70′							1.3	65SS070				

NO ICE

90 MPH Fastest Mile

	90 MPH Fastest Mile Wind Speed - No Ice												
		25G		45G		55G	65G						
Height	FT <sup>2</sup>	Part No.	FT <sup>2</sup>	Part No.	FT <sup>2</sup>	Part No.	FT <sup>2</sup>	Part No.					
10′	10.5	25SS010	25.0	45SS010	45.0	55SS010	95.0	65SS010					
20′	6.9	25SS020	11.0	45SS020	23.0	55SS020	65.0	65SS020					
30′	1.7	25\$\$030	4.0	45SS030	12.0	55SS030	40.0	65SS030					
35'			1.9	45SS035	9.4	55SS035	32.2	65SS035					
40′					4.0	55SS040	24.1	65SS040					
45'					2.2	55SS045	17.7	65SS045					
50′							14.5	65SS050					
55'							7.7	65SS055					
60′							3.3	65SS060					

Note: Antenna areas, ft.<sup>2</sup>, assume all round antenna members.



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#### ELF-SUPPORTING TOWERS-

## G SERIES REV. G EFFECTIVE PROJECTED AREA (SQ. FT.)

3-Second Gust

Gust

-Second (

n M

Height

10′

20'

30'

35'

40′ 45'

50′ 55' 60'

Products LLC

	90 MPH 3-Second Gust Wind Speed															
	Height		25	G		45	G		45G	SR		55	G	65G		
ŀ		EPA		Part No.	El	PA	Part No.	E	PA	Part No.	E	PA	Part No.	EF	PA	Part No.
		Exp.B	Exp.C		Exp.B	Exp.C		Exp.B	Exp.C			Exp.C		Exp.B	Exp.C	
	10′	26.8	21.3	2555010	60.0	47.5	45SS010	95	84	45SR010	80	79	55SS010	95	95	65SS010
	20′	18.5	13.4	2555020	31.3	22.7	45SS020	95	71	45SR020	56	42	55SS020	95	95	65SS020
	30′	7.9	4.1	2555030	16.1	8.4	45SS030	87	58	45SR030	34	21	55SS030	95	71	65SS030
	35'	4.4	1.2	25SS035	9.8	3.8	45SS035	76	52	45SR035	25	14	55SS035	80	54	65SS035
	40′	1.3	-	2555040	4.9	-	45SS040	60	40	45SR040	17	8	55SS040	62	41	65SS040
	45'				0.7	-	45SS045	48	31	45SR045	11	3	55SS045	48	30	65SS045
	50′							38	23	45SR050	5	-	55SS050	37	21	65SS050
	55'							29	16	45SR055				28	14	65SS055
	60′							22	11	45SR060				20	7	65SS060

	100 MPH 3-Second Gust Wind Speed															
		25G			45G			45GSR			55G			65G		
t	E	PA	Part No.	EF	PA	Part No.	EI	PA	Part No.	EI	PA	Part No.	EPA		Part No.	
	Exp.B	Exp.C		Exp.B	Exp.C		Exp.B	B Exp.C			Exp.C		Exp.B	Exp.C		
	20.7	16.4	2555010	47.4	39.5	45SS010	82	66	45SR010	78	63	55SS010	95	95	65SS010	
	14.0	9.9	2555020	23.2	16.9	45SS020	74	55	45SR020	43	32	55SS020	95	95	65SS020	
	5.3	2.2	2555030	9.7	4.8	45SS030	66	43	45SR030	24	14	5555030	81	55	6555030	
	2.1	-	2555035	5.1	0.7	45SS035	59	38	45SR035	17	8	55SS035	61	40	65SS035	
				1.2	-	45SS040	46	30	45SR040	10	3	55SS040	47	29	65SS040	
							35	22	45SR045	5	-	55SS045	35	20	65SS045	
							27	15	45SR050				26	13	65SS050	
							20	9	45SR055				17	6	65SS055	
							13	4	45SR060				11	1	65SS060	

O MPH -Second Gust **M** 

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	110 MPH 3-Second Gust Wind Speed															
	25G				450	G		45G	SR		55	G	65G			
Height	EPA		Part No.	EF	PA	Part No.	E	PA	Part No.	E	PA	Part No.	El	PA	Dart No.	
	Exp.B	Exp.C	Fartino.		Exp.C			Exp.C			Exp.C		Exp.B	Exp.C	Part No.	
10′	16.5	12.7	2555010	39.4	31.9	45SS010	67	53	45SR010	63	51	55SS010	95	95	65SS010	
20′	10.6	7.2	2555020	18.3	12.3	45SS020	59	43	45SR020	34	25	55SS020	95	81	65SS020	
30′	3.1	0.4	2555030	6.5	1.9	45SS030	51	32	45SR030	17	9	<b>55SS030</b>	65	43	65SS030	
35'				1.7	-	45SS035	45	27	45SR035	11	4	55SS035	48	30	65SS035	
40′							35	22	45SR040	5	-	55SS040	35	21	65SS040	
45'							26	15	45SR045				25	13	65SS045	
50′							19	9	45SR050				17	7	65SS050	
55'							13	4	45SR055				10	-	65SS055	
60′							7	-	45SR060				4	-	65SS060	

Note: Antenna areas, ft.<sup>2</sup>, assume all round antenna members.

#### **SELF-SUPPORTING G-SERIES FOUNDATIONS**



**ELEVATION VIEW** 25G (shown), 45G & 55G SELF-SUPPORTING TOWER FOUNDATION



CONCRETE BASE PLATE WITH ANCHORS 25GSSB FOR USE WITH SELF-SUPPORTING 25G TOWERS.

ALTERNATIVE TO USING SHORT BASE. BASE BOLTS & TEMPLATE MUST BE ORDERED SEPARATELY.



BASE BOLTS & TEMPLATE KH8175A

FOR USE WITH 25GSSB IN SELF-SUPPORTING 25G TOWER APPLICATIONS. KIT INCLUDES (1) TEMPLATE & (4) BASE BOLTS.



Tower	Mat Width (W)	Concrete Volume (Cu. Yds.)
25G	4' - 0"	2.4
45G	5' - 3″	4.1
55G	6' - 0"	5.3
45GSR 65G	7′ - 9″	8.9





#### SELF-SUPPORTING G-SERIES DESIGN NOTES

- 1. Tower designs are in accordance with approved national standard ANSI/EIA-222-F and ANSI/TIA-222G, Structure Class I, Exposures B and C, Topographic Category I.
- 2. All towers must have "fixed" bases. Pinned bases may not be used.
- 3. Designs assume transmission lines symmetrically placed as follows:
- 25G Tower One 5/8" Line on each face (Total =3) 45G Tower - One 7/8" Line and one 1/2" line on each face (Total = 3 @ 7/8" & 3 @ 1/2") 55G & 65G Towers - Two 7/8" Lines on each face (Total =6)
- 4. Antennas and mounts assumed symmetrically placed at tower apex.
- 5. Rev F tabulated allowable antenna areas assume all round antenna members.
- 6. Allowable flat-plate antenna areas, based on EIA RS-222-C, may be obtained by multiplying Rev. F Antenna areas shown by 0.6.
- 7. Standard foundation designs are based on Rev. F normal soil and Rev. G presumptive clay soil parameters.

Refer to pages 147-153 for General Installation and Foundation Notes.







ELF-SUPPORTING TOWERS-

#### STANDARD 65G SELF-SUPPORTING CAMERA TOWERS (all-welded)

**REV. G:** 110 MPH 3-SEC GUST WIND SPEED (NO ICE), 40 MPH 3-SEC GUST WIND SPEED (3/4" ICE), CLASS II, EXPOSURE C, TOPO CATEGORY 1 SEISMIC COEFFICIENT S<sub>S</sub>  $\leq$  1.0



Includes short base section, tower sections, Rev G grounding material and 3/16" top mounting plate with attachment hardware. Per Rev. G requirements, any structure greater than 10' requires a climber safety device. Please see page 173 for ordering information.

#### **65G CAMERA TOWERS** STANDARD FOUNDATION DETAILS



(Top & Bottom)



#### GENERAL NOTES

- 1. Tower designs are in accordance with ANSI/TIA/222-G.
- 2. Camera and mount assumed symmetrically placed at tower top.
- 3. Tower design assumes one 7/8" line on each tower face.
- 4. Assembly drawings and standard foundation details are provided with the tower.
- 5. Standard foundation illustrated is for general information only and is based on Rev G presumptive clay soil parameters.



#### STANDARD VG SELF-SUPPORTING CAMERA TOWERS (field bolted)

**REV. G:** 110 MPH 3-SEC GUST WIND SPEED (NO ICE), 40 MPH 3-SEC GUST WIND SPEED (3/4" ICE), CLASS II, EXPOSURE C, TOPO CATEGORY 1 SEISMIC COEFFICIENT S<sub>s</sub>  $\leq$  1.0



Includes anchor bolts, templates, tower sections, Rev G grounding material, 1/2" top mounting plate with attachment hardware and step bolts. Per Rev. G requirements, any structure greater than 10' requires a climber safety device. See page 175 for ordering information.

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#### VG CAMERA TOWERS STANDARD FOUNDATION DETAILS





See tower elevation page for "W" dimensions.

ACCESSORIES



#### GENERAL NOTES

- 1. Tower designs are in accordance with ANSI/TIA/222-G.
- 2. Camera and mount assumed symmetrically placed at tower top.
- 3. Tower design assumes one 7/8" line on each tower face.
- 4. Assembly drawings and standard foundation details are provided with the tower.
- 5. Standard foundation illustrated is for general information only and is based on Rev G presumptive clay soil parameters.

Refer to pages 147-153 for Foundation General Notes.



#### STANDARD RSL SELF-SUPPORTING TOWERS (field bolted)



Products LLC

# RSL

#### **GENERAL USE**

The ROHN RSL is a light weight self-supporting tower designed for use in broadband, public safety and security applications. The RSL reaches above line-of-site obstacles such as tree tops, hilly terrain and buildings. If your site is remote or rugged, the RSL is shipped knocked down to reduce shipping cost and time.

#### FEATURES

- Available in heights from 20' up to 100'
- High strength 60° formed angle legs
- Aerodynamic tubular bracing
- Easy to transport and assemble
- Ships in 10' sections or knocked-down
- Tower material is hot-dip galvanized
- Assembly drawings provided with tower

Optional items are available and may be ordered separately:

- Step bolts
- Safety climbing device
- Top post
- Anti-climb panels
- Side arm mount
- Dish mount
- Grounding kit

Refer to page 185 for foundation details.

*Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 184 for ordering information.* 

#### **BUYERS GUIDE**



#### **DESIGN NOTES:**

- 1. Tower designs conform to ANSI/TIA/EIA-222-F for the basic wind speeds indicated without ice. Tower designs also conform to the ANSI/TIA/EIA-222-F Standard for 1/2 inch radial ice load occuring simultaneously with 75% of the no ice design wind pressures.
- 2. Antennas and mounts are assumed to be symmetrically mounted at or below the top of the tower for determining overall reactions and member forces. Design assumes the weight of antennas and mounts does not exceed 300 lbs.
- 3. Design assumes maximum top mast load is limited to 5 sq. ft. EPA and 100 lbs. vertical load. All other loading is assumed to be mounted below the top mast.
- 4. Tower designs assume a 1/2 inch transmission line for each 10 square feet of EPA up to a maximum of three lines, one line per tower face.
- 5. Foundation designs are in accordance with ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures", Section 7, for "Normal" soil conditions. "Normal" soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 PSF and an allowable net horizontal pressure of 400 PSF per linear foot of depth to a maximum of 4000 PSF.



#### SELF-SUPPORTING TOWERS - RSL-



18" 28" Wt: 437 lbs.		25″ R. 445 lbs.		28"	Wt. 450 lbs.	35″ 45″	Wt. 551 lbs.	42" 52"	30' Towers	
Kit No.:	R030L103	Kit No.:	R030M305	Kit No.:	R030M406	Kit No.:	R030H608	Kit No.:	R030H810	
Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft.2)	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	
70 [85]	70	70 [85]	80	70 [85]	80	70 [85]	80	70 [85]	80	
75 [90]	61	75 [90]	74	75 [90]	78	75 [90]	80	75 [90]	80	
80 [95]	53	80 [95]	65	80 [95]	64	80 [95]	73	80 [95]	80	
90 [105]	41	90 [105]	45	90 [105]	43	90 [105]	55	90 [105]	80	
100 [115]	30	100 [115]	29	100 [115]	28	100 [115]	42	100 [115]	60	
Base O	ptions	Base Options		Base O	ptions	Base O	ptions	Base O	ptions	
Short Base	RSB03	Short Base	RSB05	Short Base	RSB06	Short Base	RSB08	Short Base	RSB10	
Anchor Base	RAL03	Anchor Base	RAL05	Anchor Base	RAL06	Anchor Base	RAL08	Anchor Base	RAL10	


# SELF-SUPPORTING TOWERS - RSL-

<b>40, Towers</b> 32″	Mt. 585 lbs.	21"	Wt. 590 lbs.	42" %		35"	Wt. 788 lbs.	38"	Wt. 876 lbs.
Kit No.:	R040L104	Kit No.:	R040M205	Kit No.:	R040M407	Kit No.:	R040H609	Kit No.:	R040H710
Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft.2)	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )
70 [85]	54	70 [85]	63	70 [85]	80	70 [85]	80	70 [85]	80
75 [90]	44	75 [90]	52	75 [90]	75	75 [90]	80	75 [90]	80
80 [95]	36	80 [95]	43	80 [95]	62	80 [95]	69	80 [95]	80
90 [105]	24	90 [105]	29	90 [105]	40	90 [105]	52	90 [105]	75
100 [115]	15	100 [115]	19	100 [115]	25	100 [115]	40	100 [115]	49
Base O	ptions	Base O	ptions	Base O	ptions	Base O	ptions	Base O	ptions
Short Base	RSB04	Short Base	RSB05	Short Base	RSB07	Short Base	RSB09	Short Base	RSB10
Anchor Base	RAL04	Anchor Base	RAL05	Anchor Base	RAL07	Anchor Base	RAL09	Anchor Base	RAL10





# SELF-SUPPORTING TOWERS - RSL

18″ 18″		21"	Wt. 931 lbs.	25" 45" Kit No.: R060M308		49" 49" 49"		32" 52" Kit No.: R060H510	
Kit No.:	R060L106	Kit No.:	R060M207	Kit No.:	R060M308	Kit No.:	R060H409	Kit No.:	R060H510
Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft.2)	Fastest Mile [3-sec Gust]	E.P.A. (ft.2)	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )
70 [85]	23	70 [85]	40	70 [85]	60	70 [85]	78	70 [85]	80
75 [90]	15	75 [90]	31	75 [90]	48	75 [90]	67	75 [90]	68
80 [95]	9	80 [95]	24	80 [95]	38	80 [95]	54	80 [95]	56
90 [105]	2	90 [105]	13	90 [105]	21	90 [105]	35	90 [105]	40
100 [115]	-	100 [115]	3	100 [115]	11	100 [110]	21	100 [110]	27
Base O	-	Base O	-	Base O	-	Base O		Base O	-
Short Base	RSB06	Short Base	RSB07	Short Base	RSB08	Short Base	RSB09	Short Base	RSB10
Anchor Base	RAL06	Anchor Base	RAL07	Anchor Base	RAL08	Anchor Base	RAL09	Anchor Base	RAL10



# -SELF-SUPPORTING TOWERS - RSL-







# SELF-SUPPORTING TOWERS - RSL

						00					9
45″	Wt. 1286 lbs.	21"	Wt. 1378 lbs.	25"	Wt. 1473 lbs.	80' Towers	18"	Wt. 1523 lbs.	21"	Wt. 1618 lbs.	90' Towers
Kit No.:	R080L108	Kit No.:	R080M209	Kit No.:	R080H310		k	22		6 🗧	
Fastest Mile [3-sec Gust]	E.P.A. (ft.2)	Fastest Mile [3-sec Gust]	E.P.A. (ft.2)	Fastest Mile [3-sec Gust]	E.P.A. (ft.2)		49″	/t.1	52″	Vt.1	
70 [85]	21	70 [85]	36	70 [85]	52	1					
75 [90]	14	75 [90]	26	75 [90]	39		Kit No.:	R090L109	Kit No.:	R090H210	
80 [95]	7	80 [95]	19	80 [95]	26		Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	Fastest Mile [3-sec Gust]	E.P.A. (ft. <sup>2</sup> )	
90 [105]	-	90 [105]	6	90 [105]	10		70 [85]	19	70 [85]	33	
100 [115]	-	100 [115]	-	100 [115]	-		75 [90]	12	75 [90]	23	
Base O	-	Base O	-	Base O	-		80 [95]	5	80 [95]	13	
Short Base	RSB08	Short Base	RSB09	Short Base	RSB10		90 [105]	-	90 [105]	-	
<b>Anchor Base</b>	RAL08	Anchor Base	RAL09	<b>Anchor Base</b>	RAL10	]	100 [115]	-	100 [115]	-	
L	]	L	<u> </u>	L		1	Base O	ptions	Base O	ptions	
							Short Base	RSB09	Short Base	RSB10	
							Anchor Base	RAL09	Anchor Base	RAL10	
							, ancior base	11/11/07	Intro Dase	NALIU	



# 

100'Towers





Optional accessories continued on next page.

Grounding Kit shown on page 184.



ELF-SUPPORTING TOWERS - RSL-

# **OPTIONAL ACCESSORIES**



# **RSL** FOUNDATION INFORMATION



### SHORT BASE

Section RSB02 RSB03 RSB04 RSB05 RSB06 RSB07 RSB08 RSB09 RSB10

(Ordered separately from tower)
Short Base

### **STANDARD FOUNDATION INFORMATION**

(Used with short base and anchor base options)

<i>''</i>										
	[	Dimensi	ions (in	.)	Concrete	No. 7				
	Α	В	C	Р	(Cu. Yds)	Bars Req.				
	84	42	28	10.50	7.3	32				
	90	45	29	12.50	8.3	32				
	90	45	27	11.25	8.3	32				
	96	48	28	11.50	9.5	36				
	96	48	26	12.00	9.5	36				
	108	54	30	13.00	12.0	40				
	114	57	31	12.75	13.4	40				
	120	60	32	13.50	14.8	44				
	126	63	33	12.75	16.3	44				

### **ANCHOR BASE**

(Ordered separately from tower)

~	ered separately normal
	Leg Stubs & Anchors
	RAL02
	RAL03
	RAL04
	RAL05
	RAL06
	RAL07
	RAL08
	RAL09
	RAL10

See RSL tower kit for appropriate short base or anchor base part numbers. Standard foundations illustrated are for general information purposes only. Actual details are provided with tower assembly drawings.



# SSV SELF-SUPPORTING TOWERS



# **SSV** STANDARD

### **GENERAL USE**

The ROHN SSV tower has been in service for over 50 years. The design utilizes standard parts arranged to create a unique structure. The legs are tubular with angle braces at the bottom and solid legs and braces in the top sections. This tower is used in a variety of applications, from PCS structures and broadband to security, sports lighting and more. The SSV has proven to be one of the industry's most efficient and preferred structures. All ROHN SSV towers are hot-dip galvanized, inside and out for corrosion protection.

		• •			
Section		minal Dimension			
Number	Upper	Lower			
1WB	1'-2″	1'-2″			
2W	1'-2″	1'-6″			
3WN	1' - 6"	1' - 10"			
4N	1′- 10″	2'-2"			
5N	2'-2"	2'-6"			
6N	2'-6"	4'-61/4"			
7N	4'-61/4"	6'-63/4"			
8N	6'-63/4"	8'-63/4"			
9N	8'-63/4"	10' - 6 3/4"			
10N	10'-63/4"	12'-71/4″			
11N	12'-71/4"	14' - 7 7/8″			
12N	14' - 7 7/8"	16′ - 8 3/8″			
13N	16' - 8 3/8"	18′ - 8 3/8″			
14N	18′ - 8 3/8″	20' - 9 3/8"			
15N	20' - 9 3/8"	22' - 9 3/8″			
16N	22'- 9 3/8"	24' - 9 3/8"			

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.

### SELF-SUPPORTING STANDARD TOWERS 40' - 190' 70 MPH REV F. [NO ICE]

Tower	Tower	Tower	Allowable F	Projected Area	Тор	-	Base Sectio	n
Height (ft.)	Assembly Number	Weight (lbs.)	Tower Top Rounds (Flats)	30′ Below Top Rounds (Flats)	Section	Section Number	Short Base P/N	A-Bolts (12 Req.)
40	SS040D70	495	16.7 (10)	20 (12)	2W	3WN	SB3	-
50	SS050D70	564	15 (9)	18.3 (11)	1WB	3WN	SB3	-
60	SS060D70	1012	15 (9)	18.3 (11)	2W	4N	SB4	-
70	SS070D70	1077	13.3 (8)	16.7 (10)	1WB	4N	SB4	-
80	SS080D70	1441	13.8 (8)	16.7 (10)	2W	5N	SB5	-
90	SS090D70	1505	11.7 (7)	15 (9)	1WB	5N	SB5	-
100	SS100D70	1863	11.7 (7)	15 (9)	2W	6N	-	5/8X42
110	SS110D70	1927	10 (6)	14.2 (8.5)	1WB	6N	-	5/8X42
120	SS120D70	2449	10 (6)	14.2 (8.5)	2W	7N	-	5/8X42
130	SS130D70	2513	9.2 (5.5)	13.3 (8)	1WB	7N	-	5/8X42
140	SS140D70	3173	9.2 (5.5)	13.3 (8)	2W	8N	-	5/8X42
150	SS150D70	3248	8.3 (5)	12.5 (7.5)	1WB	8N	-	5/8X42
160	SS160D70	3952	8.3 (5)	12.5 (7.5)	2W	9N	-	5/8X42
170	SS170D70	4017	7.5 (4.5)	12.5 (7.5)	1WB	9N	-	5/8X42
180	SS180D70	4816	7.5 (4.5)	12.5 (7.5)	2W	10N	-	3/4X48
190	SS190D70	4880	6.7 (4)	11.7 (7)	1WB	10N	-	3/4X48

### **General Notes:**

1. Standard tower designs are in accordance with approved national standard ANSI/EIA-222-F (no ice).

2. Equivalent flat-plate antenna areas based on EIA RS-222-C, must not exceed the areas shown for flat members.

3. Tower designs assume allowable projected areas are symmetrically placed on the tower.

4. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one line on each face.

5. All towers are provided with a tapered top.

6. A Rev F grounding kit is provided with each tower.

7. Assembly drawings and standard foundation details are supplied with the tower.

8. Custom designs for site-specific applications are available upon request.



Tower Section No.
1W, 1WB, 2W
2WST, 2WB, 3WN
3WNST, 3WNB, 4N
4NST, 4NA, 4WB, 4NC, 5N
5NST, 5NA, 5NB, 5NC, 6C





# SELF-SUPPORTING STANDARD SECTIONS



Bracing Detail for Sections 1W - 3WN Solid Round Legs & Solid Round Braces

Straight and Tapered Sections available.



Bracing Detail for Sections 4N & 5N Solid Round Legs & Solid Round Braces

Straight and Tapered Sections available.



Bracing Detail for Straight Sections 6N - 11N Tubular Legs & Angle Braces



Bracing Detail for Tapered Sections 6N - 16N Tubular Legs & Angle Braces



**Part No: SB2, SB3, SB4 & SB5** Installed when 2N - 5N sections are used as tower base.

Anchor bolt configurations are provided with larger towers.



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# SELF-SUPPORTING STANDARD FOUNDATIONS





W (square)

**Plan View** 

Horizontal bars each way, top and bottom

Grade



Section A-A



Pier & Pad Elevation View

Mat Elevation View Drilled Pier Elevation View

Towar		P	ier & Pa	d		Ν	/lat	Drilled Pier		
Tower Base Sect.	Din	Dimensions			Req'd Conc. (cu.yds.		Reqíd Conc.			Req'd Conc.
No.	D	А	С		(ins) Square	W	Conc. (cu.yds.)	D	Y	Conc. (cu.yds.)
1W	-	-	-	-	-	4'-0"	2.4	-	-	-
2W	-	-	-	-	-	5'-6"	4.5	_	-	_
3WN	-	-	-	-	-	6'-9"	6.8	-	-	-
4N	-	-	-	-	-	8'-0"	9.5	-	-	-
5N	-	-	-	-	-	8'-9"	11.3	-	-	-
6N	-	-	-	-	-	10'-3"	15.6	-	-	-
7N	8' - 0"	4'-6"	2'-0″	6.3	6.9	11'-6"	19.6	-	-	-
8N	8'-9"	5'-6″	2'-0"	8.7	9.4	14'-3"	30.1	18'-6"		10.4
9N	8' - 9″	5'-6"	2'-0"	8.7	9.4	16'-0"	37.9	16'-0"	2'-6"	9.0
10N	8'-9"	5'-6″	2'-0"	8.7	9.4	18'-3"	49.3	16'-0"	2'-6"	9.0
11N	10' - 0″	5'-6"	2'-6″	10.8	12.0	-	-	21'-9"		12.2
12N	10'-0"	5'-6″	2'-6"	10.8	12.0	-	-	21'-6"	2'-6"	12.0
13N	11'-0"	5'-6"	2'-6″	11.3	12.7	-	-	22'-0"		17.7
14N	11'-0"	5'-6″	2'-6"	11.3	12.7	-	-	22'-0"		17.7
15N	12'-6"	6'-6″	3'-0″	17.3	19.7	-	-	27'-6"	3'-6"	30.0
16N	12'-6"	6'-6"	3'-0"	17.3	19.7	-	-	27'-6"	3'-6"	30.0

Standard foundations illustrated are for general information purposes only and are based on Rev F normal soil parameters. Foundation installation details are provided with tower assembly drawings.



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# SSV HD SELF-SUPPORTING TOWERS



Products LLC

# **SSV** HEAVY DUTY

### **GENERAL USE**

The ROHN SSV HD tower has the same features and utility as the SSV tower, but with Heavy Duty legs and braces. The heavy duty tower allows for the structure to support more loading and higher wind and ice loading. This tower serves the same applications as the SSV including: PCS, broadband, security, sports lighting and many others. The SSV HD also has standard "pre-engineered" towers created from standard sections. All ROHN SSV towers are hot-dip galvanized, inside and out for corrosion protection.

Section		minal Dimension		
Number	Upper	Lower		
3WN	1′-6″	1'- 10″		
3WNB	1'- 10″	1'- 10″		
4N	1'- 10″	2'-2"		
5N	2'-2″	2'-6"		
6N	2'-6"	4'-61/4"		
7N	4'-61/4"	6'-63/4"		
8N	6' - 6 3/4"	8'-63/4"		
9NH	8'-63/4"	10'-63/4"		
10NH	10'-63/4"	12'-71/4″		
11N	12'-71/4"	14'-77/8"		
12NH	14'-77/8"	16'-83/8"		
13NH	16′ - 8 3/8″	18'-83/8"		
14NH	18'- 8 3/8"	20' - 9 3/8″		
15NH	20' - 9 3/8″	22'-93/8"		
16NH	22'-93/8″	24' - 9 3/8"		

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.

### SELF-SUPPORTING HEAVY DUTY STANDARD TOWERS 40' - 190' 90 MPH REV. F [NO ICE]

Tower	Tower	Tower	Allowable F	Projected Area	Тор	Base Section			
Height (ft.)	Assembly Number	Weight (lbs.)	Tower Top Rounds (Flats)	30' Below Top Rounds (Flats)	Section	Section Number	Short Base P/N	A-Bolts (12 Req.)	
40	SS040D90	853	16.7 (10)	20 (12)	3WN	4N	SB4	-	
50	SS050D90	1198	16.7 (10)	20 (12)	3WNB	5N	SB5	-	
60	SS060D90	1282	14.2 (8.5)	17.5 (10.5)	3WN	5N	SB5	-	
70	SS070D90	1620	14.2 (8.5)	17.5 (10.5)	3WNB	6N	-	5/8X42	
80	SS080D90	1704	12.5 (7.5)	15.8 (9.5)	3WN	6N	-	5/8X42	
90	SS090D90	2206	12.5 (7.5)	15.8 (9.5)	3WNB	7N	-	5/8X42	
100	SS100D90	2290	10 (6)	13.3 (8)	3WN	7N	-	5/8X42	
110	SS110D90	2941	10 (6)	13.3 (8)	3WNB	8N	-	5/8X42	
120	SS120D90	3025	8.3 (5)	11.7 (7)	3WN	8N	-	5/8X42	
130	SS130D90	3829	8.3 (5)	11.7 (7)	3WNB	9NH	-	5/8X42	
140	SS140D90	3913	6.7 (4)	10 (6)	3WN	9NH	-	5/8X42	
150	SS150D90	4810	6.7 (4)	10 (6)	3WNB	10NH	-	3/4X48	
160	SS160D90	4894	5.8 (3.5)	8.3 (5)	3WN	10NH	-	3/4X48	
170	SS170D90	5712	5.8 (3.5)	8.3 (5)	3WNB	11N	-	7/8X60	
180	SS180D90	5796	5 (3)	7.5 (4.5)	3WN	11N	-	7/8X60	
190	SS190D90	8045	5 (3)	7.5 (4.5)	3WNB	12NH	-	7/8X60	

### **General Notes:**

1. Standard tower designs are in accordance with approved national standard ANSI/EIA-222-F (no ice).

2. Equivalent flat-plate antenna areas based on EIA RS-222-C, must not exceed the areas shown for flat members.

3. Tower designs assume allowable projected areas are symmetrically placed on the tower.

4. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one line on each face.

5. All towers are provided with a tapered top.

6. A Rev F grounding kit is provided with each tower.

7. Assembly drawings and standard foundation details are supplied with the tower.

8. Custom designs for site-specific applications are available upon request.



**Tapered Top** 

Assy.P/N	Tower Section No.
1TT	1W, 1WB, 2W
3TT	2WST, 2WB, 3WN
4TTN	3WNST, 3WNB, 4N
5TTN	4NST, 4NA, 4WB, 4NC, 5N
6TT	5NST, 5NA, 5NB, 5NC, 6C





# SELF-SUPPORTING HEAVY DUTY SECTIONS



Bracing Detail for Sections 1W - 3WN Solid Round Legs & Solid Round Braces

Straight and Tapered Sections available.



Bracing Detail for Sections 4N & 5N Solid Round Legs & Solid Round Braces

Straight and Tapered Sections available.





Bracing Detail for Straight Sections 6N - 11N Tubular Legs & Angle Braces



Bracing Detail for Tapered Sections 6N - 16NH Tubular Legs & Angle Braces



**Part No: SB2, SB3, SB4 & SB5** Installed when 2N - 5N sections are used as tower base.

Anchor bolt configurations are provided with larger towers.



# **SELF-SUPPORTING** HEAVY DUTY STANDARD FOUNDATIONS





Tower Axis and center of pad W ç (square) **Plan View** 

Grade



**Section A-A** 



Pier & Pad **Elevation View** 

Mat **Elevation View** 

Horizontal bars each way, top and bottom

> **Drilled** Pier **Elevation View**

Towor		Р	ier & Pa	d		Ν	/lat	D	rilled F	Pier
Tower Base	Din	nensio	ons	Req'd	Conc.		Req'd			Read
Sect. No.	D	А	С		yds. Ins)	W	Conc. (cu.yds.)	D	Y	Reqid Conc. (cu.yds.)
				Round	Square	(cu.yu	(Cu.yus.)	JS./		(Cu.yus.)
1W	-	-	-	-	-	4' - 0"	2.4	-	-	-
2W	-	-	-	-	-	5'-6"	4.5	-	-	-
3WN	-	-	-	-	-	6' - 9"	6.8	-	-	-
4N	-	-	-	-	-	8'-0"	9.5	-	-	-
5N	-	-	-	-	-	8' - 9"	11.3	-	-	-
6N	-	-	-	-	-	10' - 3"	15.6	-	-	-
7N	8'-0"	4'-6"	2'- 0"	6.3	6.9	11'-6"	19.6	-	-	-
8N	8'-9"	5'-6″	2'-0"	8.7	9.4	14' - 3"	30.1	18'-6"	2'-6"	10.4
9NH	9'-0"	5'-6"	2'- 0"	8.8	9.5	16' - 0"	37.9	19'-6"		10.9
10NH	9'-0"	5'-6″	2'-0"	8.8	9.5	18' - 3"	49.3	19'-6"	2'-6"	10.9
11N	10'-0"	5'-6"	2' - 6″	10.8	12.0	-	-	21'-9"	2'-6"	12.2
12NH	11'-0"	5'-6″	2'-6"	11.3	12.7	-	-	22'-9"		18.3
13NH	12'-0"		3'- 0"	16.3	18.5	-	-	25'-0"		27.3
	12'-0"	6'-3"		16.3	18.5	-	-	25'-0"	3'-6"	27.3
			3' - 0″	19.9	22.4	-	-	30'-0"	4'-0"	42.6
16NH	13'-0"	7'-3″	3'-0"	19.9	22.4	-	-	30'-0"	4'-0"	42.6

Standard foundations illustrated are for general information purposes only and are based on Rev F normal soil parameters. Foundation installation details are provided with tower assembly drawings.



# SSMW SELF-SUPPORTING TOWERS



Products LLC



### **GENERAL USE**

The ROHN SSMW tower is a unique design using a K-Brace system with horizontal plan bracing to allow free standing towers to reach heights to 900'. The SSMW is designed with pipe legs and pipe braces with flanges at each end for connection. The SSMW tower design can be used in conjunction with the SSV tower. All SSMW towers are hot-dip galvanized, inside and out for corrosion protection.

Section	Nominal Spread Dimension		
Number	Upper	Lower	
В	8'-61/2"	8′-61/2″	
С	8′-61/2″	10′ - 7″	
D	10′ - 7″	12'-71/2"	
E	12'-71/2"	14' - 11 1/2"	
F	14' - 11 1/2"	17'-51/2"	
G	17'-51/2"	19' - 11 1/2"	
н	19' - 11 1/2"	22'-61/2"	
J	22'-61/2"	25' - 0 1/2"	
К	25' - 0 1/2"	27'-61/2"	
L	27'-61/2"	30' - 0 1/2"	
М	30' - 0 1/2"	32'-61/2"	
N	32'-61/2"	36' - 3 1/2"	
Р	36' - 3 1/2"	40'-21/8"	
Q	40' - 2 1/8"	43' - 11 1/8″	
R	43' - 11 1/8″	47' - 8 1/8"	
S	47'-81/8"	51'-51/8"	
Т	51'- 5 1/8″	55' - 2 1/8"	

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.

# SELF-SUPPORTING SSMW SECTIONS



Typical section assembly detail for sections B, C & D. Section E, F, G, H & J are identical except for the number of bays of bracing.



Typical section assembly detail for sections K, L & M.

R, S & T.





connections are used on sections Q through T.

ROHN -

### SSMW SECTIONS Sections are designed for many different

sizes of braces and legs.

Secondary horizontal

sections Q, R, S & T.

sub-bracing are used on

# SSVSR SELF-SUPPORTING TOWERS



Products LLC

# SSVSR

### **GENERAL USE**

The ROHN SSVSR tower is similar in design to the ROHN SSV tower, but uses solid round legs instead of tubular legs. The SSVSR tower gives the versatility to switch to a solid leg, if desired. The standard side arms, dish mounts, ladders and waveguide supports that are used on the SSV tower can be used on the SSVSR tower. All SSVSR towers are hot-dip galvanized for corrosion protection.

Section		ninal Dimension	
Number	Spread E Upper	Lower	
1W	1'- 2"	1'-2"	
2W	1'- 2″	1′-6″	
3WN	1'- 6″	1'- 10″	
4N	1'- 10″	2'-2"	
5N	2'- 2″	2'-6"	
6SR	2'-6"	4'-61/4"	
7SR	4'-61/4"	6'-63/4"	
8SR	6'-63/4"	8'-63/4"	
9SR	8'-63/4"	10'-63/4"	
10SR	10'-63/4"	12'-71/4"	
11SR	12'-71/4"	14'-77/8"	
12SR	14' - 7 7/8″	16'-83/8"	
13SR	16' - 8 3/8″	18'-83/8"	
14SR	18'-83/8"	20'-93/8"	
15SR	20'-93/8″	22'-93/8″	
16SR	22'- 9 3/8"	24'-93/8"	

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.

# SOLID ROUND LEG SECTIONS



Bracing Detail for Sections 1W - 3WN Solid Round Legs & Solid Round Braces

Straight and Tapered Sections available.



Bracing Detail for Sections 4N & 5N Solid Round Legs & Solid Round Braces

Straight and Tapered Sections available.





Bracing Detail for Straight Sections 6SR & 11SR Solid Round Legs & Angle Braces



Bracing Detail for Tapered Sections 6SR - 16SR Solid Round Legs & Angle Braces



**Part No: SB2, SB3, SB4 & SB5** Installed when 2N - 5N sections are used as tower base.

Anchor bolt configurations are provided with larger towers.

### SSVSR SECTIONS

Sections are designed for many different sizes of braces and legs.



SELF-SUPPORTING TOWERS - RS-

# RS

### **GENERAL USE**

The ROHN RS tower is a unique solid round leg tower that uses angle braces in an X-Brace pattern. The RS tower is custom designed with standard components to shorten lead times. All RS towers are hot-dip galvanized for corrosion protection.

Section Number	Nominal Spread Dimension Upper Lower		
RSS06	6′	6′	
RST08	6'	8'	
RST10	8′	10′	
RST12	10'	12'	
RST15	12′	15′	
RST18	15'	18'	
RST21	18′	21′	
RST24	21'	24'	
RST27	24′	27′	

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.



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# **RS SELF-SUPPORTING TOWERS**

# SELF-SUPPORTING RS SECTIONS



**RSS 20' Straight Section** Solid Round Legs & Angle Braces

**RS SECTIONS** Sections are designed for many different sizes of braces and legs.



**RST 30' Tapered Section** Solid Round Legs & Angle Braces



**RST 20' Tapered Section** Solid Round Legs & Angle Braces









# **TOWER & SITE ACCESSORIES**



3' AND 6' SIDE ARMS, STRAIGHT/TAPERED TOWER SECTIONS





UNIVERSAL KITS						
3′ Side Arm	6' Side Arm	Tower Leg O.D.				
SA324A	SA624A	2.38″ - 4.50″				

SA656A

5.56" - 6.63"

3'Side Arm	6' Side Arm	Tower Leg O.D.
SA32PL	SA62PL	2.38″
SA325PL	SA625PL	2.88″
SA33PL	SA63PL	3.50″
SA335PL	SA635PL	4.00″
SA34PL	SA64PL	4.50″
SA35PL	SA65PL	5.56″
SA36PL	SA66PL	6.63″
SA38PL	SA68PL	8.63″
SA310PL	SA610PL	10.75"
SA312PL	SA612PL	12.75″

# LEG SPECIFIC KITS

### Notes:

Products LLC

SA356A

- 1. Standard tiebacks to the supporting structure are available for towers with 8.5 ft. or less face width.
- 2. To order tiebacks, include (1TB) for one or (2TB) for two after side arm assembly part number.
- 3. Custom side arms and tiebacks are available upon request.
- 4. Check for leg size to determine assembly number required.

### All side arms are hot-dip galvanized and include all hardware to attach mount to tower.

# Tower Leg 4.50" O.D. x 6' - 8" Long Standard Mounting Tube Tower Leg Tower Leg

Straight Leg				
Part No. Description				
S24HUM Fits leg sizes 2.38" O.D 4.50" O.E				
S56HUM Fits leg sizes 5.50" O.D 6.63" O.D.				

Tapered Leg				
Part No. Description				
T24HUM Fits leg sizes 2.38" O.D 4.50" O.D				
T56HUM Fits leg sizes 5.50" O.D 6.63" O.D.				

# LEG TIE-BACK PLATE KIT

LEG DISH MOUNTS



Part No.	Leg O.D.
VY1949A	2.38″
VY1950A	2.88"
VY1951A	3.50″
VY1952A	4.00"
VY1953A	4.50″
VY1954A	5.50"
VY1955A	6.63″

Kits include (1) clip with u-bolts. Some dishes require (2) tie-backs.



**GENERAL TOWER & SITE ACCESSORIES** 

# **TIE-BACK ASSEMBLIES**

[Follow steps 1-4 to order]

#### Step 1: Step 2: Select tie-back tube Select angle bracket kit (includes (2) brackets). Step 3: Select u-bolt kit (includes (4) u-bolts). **Optional Position** (1) Tie-back plate kit provided with mount, 9/16",11/16" and 13/16" dia. holes provided. Step 4: Select additional tie-back

All mounts and tie-back assemblies are hot-dip galvanized and include all hardware to attach

mount to tower.

plate kits, if required.

### Step 1. Select Tie-Back Tube Size & Length

TS 6" x 6" x 3/16"					
Length					
5′					
6′					
8′					
10′					
12′					

	TS 6" x 6" x 1/4"			
	Part No.	Length		
	TMT6L05	5′		
	TMT6L06	6′		
	TMT6L08	8′		
	TMT6L10	10′		
	TMT6L12	12′		

TS 6" x 6" x 3/8"	
Part No. Length	
TMT6H05	5′
TMT6H06	6′
TMT6H08	8′
TMT6H10	10′
TMT6H12	12′

#### Step 2. Select Angle Bracket Kit Based on lea O.D.

based offreg 0.D.		
4″ Tube		
Part No.	Leg O.D.	
VY2911A	1.90″ - 5.56"	
VY2912A	6.63″-8.63"	

6″ Tube		
Part No.	Leg O.D.	
VY4457A	1.90″ - 5.56"	
VY4458A	6.63″ - 8.63"	
VY4459A	10.75" - 12.75"	

# Step 3. Select U-Bolt Kit

Based on leg O.D.	
Part No.	Leg O.D.
JR83AW4	1.90″ - 2.38"
JR84AW4	2.88″
JR88AW4	3.50″
JR89AW4	4.00″
JR85AW4	4.50″
JR86AW4	5.56″
JR87AW4	6.63″
JR90SAW4	8.63″
JR110AW4	10.75″
JR120AW4	12.75″

### Step 4. Select Additional Tie-Back Plate

Kits (if required).

Part No.	Tube Size
AP34T4	4″
AP6T2	6″



# FACE DISH MOUNTS

[FOLLOW STEPS 1-3 TO ORDER]



### **ORDERING INFORMATION:**

Step 1. Select Mounting Tube Length (4.50" O.D.x 0.237" wall)

Straight Leg	
Part No. Tube Description	
DMF4T050S	4.50″ O.D. x 5′
DMF4T068S	4.50" O.D. x 6.67'
DMF4T100S	4.50″ O.D. x 10′

Tapered Leg	
Part No. Tube Description	
DMF4T050T	4.50" O.D. x 5'
DMF4T068T	4.50" O.D. x 6.67'
DMF4T100T	4.50" O.D. x 10'

### Step 2. Select Upper and Lower Connections

Because leg O.D. may be different at upper and lower connections, select one part number for upper and one part number for lower.



# Straight or Tapered Legs Part No. Leg O.D. JR83AW4 1.90"- 2.38" JR84AW4 2.88" JR88AW4 3.50" JR89AW4 4.00" JR89AW4 4.50" JR85AW4 5.56"

(2) Brackets are included with each kit.

### Step 3. Select Square Tube Supports



Based on required strength and length. Select (1) part number for upper support and (1) part number for lower support.

4" x 4" x 11GA	
Part No. Length	
TMT4L05	5′
TMT4L06	6′
TMT4L08	8′
TMT4L10	10′

4″ x 4" x .25″	
Part No.	Length
TMT4H05	5′
TMT4H06	6′
TMT4H08	8′
TMT4H10	10′

4" x 4" x .375"	
Part No. Length	
TMT4XH05	5′
TMT4XH06	6′
TMT4XH08	8′
TMT4XH10	10′



# FACE MOUNT KITS



### LIGHTWEIGHT FACE MOUNT KITS FITS MIN. FACE WIDTH 18" TO MAX. FACE WIDTH 30", LEG SIZES 1" TO 1 3/4" O.D.

Part No.	Mounting Tube
FM35NU2	2.38" O.D. x 0.154" wall x 5' Long
FM35NU4	4.50" O.D. x 0.237" wall x 5' Long

Face dish mounts are hot-dip galvanized and include all required hardware to attach mount to tower.



# **GENERAL TOWER & SITE ACCESSORIES**



#### SECTOR MOUNT ORDERING INFORMATION (Qty. is for (1) sector only)

#### Step 1. Select frame P/N based on tower face spread.

Frame Support Assembly Straight Leg	
Part No.	Face Spread
KY2016A	8' Max.
KY1993A	8' Min 14' Max.

Frame Support Assembly Tapered Leg		
Part No.	Face Spread	
KY2006A	8' Max.	
KY2015A	8′ Min 14′ Max.	

### Step 2. Select antenna mast kits (2 min.) (1) Kit per mast tube

Antenna Mast Kit		
Part No. Mast		
VY4935A	2.38" O.D. (0.154" wall) x 5' Long	
VY4935A8	2.38" O.D. (0.218" wall) x 8' Long	

### Step 3. Select leg mounting kit.

Leg Mounting Kit Straight Leg		Leg Mounting Kit Tapered Leg		
Part No.	Leg O.D.	Part No.	Leg O.D.	
KY1994A	2.38″ O.D.	KY2007A	2.38″ O.D.	
KY1995A	2.88″ O.D.	KY2008A	2.88″ O.D.	
KY1996A	3.50″ O.D.	KY2009A	3.50″ O.D.	
KY1997A	4.00″ O.D.	KY2010A	4.00″ O.D.	
KY1998A	4.50″ O.D.	KY2011A	4.50″ O.D.	
KY1999A	5.56″ O.D.	KY2012A	5.56″ O.D.	
KY2000A	6.63″ O.D.	KY2013A	6.63″ O.D.	
KY2001A	8.63″ O.D.	KY2014A	8.63″ O.D.	



### **ROTOR PLATE ASSEMBLIES** FOR ROHN STANDARD SELF-SUPPORTING TOWERS

Rotor plate accessories are hot-dip galvanized and include all required hardware to attach assemblies to tower.

3WNST / 3WNB 1W / 2W 3 W N Top Plate to Top Plate to Top Plate to Mount TB3 or TB4 Mount TB3 Mount TB3 **Tower Axis** or TB4 Thrust **Thrust Bearing** or TB4 Thrust **Tower Axis Tower Axis** Bearing Bearing TB3 or TB4 TB3 or TB4 TB3 or TB4 4'-6 5' - 0" Mast Pipe Mast Pipe Mast Pipe 1W/2W Tower Leg 3WNST/ П **3WN** Tower -3WNB Leg Tower Leg P/N: VU479A P/N: VU474A P/N:VU140

### NOTES:

- 1. All plates are 3/8" thick
- 2. Rotor top plates are pre-drilled to fit a variety of rotors.
- 3. Rotor plate assembly includes top plate and rotor plate.
- 4. Mast pipe, rotor and thrust bearing must be ordered separately.



# **SAFETY & CLIMBING** G-SERIES TOWERS | POLES

### **SAFETY CABLE - TOWERS**

Description	Part Number
50' - 25G tower	TT05025
100′ - 25G tower	TT10025
150′ - 25G tower	TT15025
200' - 25G tower	TT20025

Description	Part Number
50' - 45G/55G tower	TT0504555
100′ - 45G/55G tower	TT1004555
150′ - 45G/55G tower	TT1504555
200′ - 45G/55G tower	TT2004555
250′ - 45G/55G tower	TT2504555
300′ - 45G/55G tower	TT3004555
350' - 45G/55G tower	TT3504555

Description	Part Number
50' - 65G tower	TT05065
100' - 65G tower	TT10065
150′ - 65G tower	TT15065
200' - 65G tower	TT20065
250' - 65G tower	TT25065
300' - 65G tower	TT30065
350' - 65G tower	TT35065
400' - 65G tower	TT40065
450' - 65G tower	TT45065
500′ - 65G tower	TT50065

### SAFETY CABLE - POLES -

Description	Part No.	Cable (ft.)	# Guides
25' - Pole	TT025TSP	35	1
50' - Pole	TT050TSP	60	2
100′ - Pole	TT100TSP	110	4
150′ - Pole	TT150TSP	160	6
200′ - Pole	TT200TSP	210	8
250′ - Pole	TT250TSP	260	10
Step Anchor Bracket	TTSBAB	-	-
Additional 4" Stud Cable Guide	TT115317-4	-	-

### SAFETY CABLE SYSTEM FOR CLIMBING LADDERS - TOWERS -

Description	Part Number
50' Climbing Ladder	TT050LAD
100' Climbing Ladder	TT100LAD
150' Climbing Ladder	TT150LAD
200' Climbing Ladder	TT200LAD
250' Climbing Ladder	TT250LAD
300' Climbing Ladder	TT300LAD

### HARNESS & SLIDER

Description	Part Number
4-D Ring Climbing Harness	TTFBH-4D
Professional Harness	TTFBH-C/P
Safety Cable Slider	TT-WG-500-W/SMC



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GENERAL TOWER & SITE ACCESSORIES-



Part number for ladder section only. Mounting kit must be ordered separately.



- 1. Ladders are available for most ROHN standard tower sections.
- 2. All ROHN climbing devices are indended for use by professional (competent climbers) only.
- 3. Specify ladder type and configuration when ordering.
- 4. Custom configurations and mounting options available.
- 5. A safety climb system is required for all structures greater than 10' in height.





# **WAVEGUIDE LADDER** FACE MOUNTED 9-HOLE



### Notes:

1. Waveguide ladder may be moved horizontally for the proper alignment.

2. Waveguide ladder may be mounted inside or outside of tower as required.



# WAVEGUIDE LADDER FACE MOUNTED 12-HOLE



### Notes:

Waveguide ladder may be moved horizontally for the proper alignment.
 Waveguide ladder may be mounted inside or outside of tower as required.



# WAVEGUIDE LADDER FACE MOUNTED 15-HOLE



### Notes:

- 1. Waveguide ladder may be moved horizontally for the proper alignment.
- 2. Waveguide ladder may be mounted inside or outside of tower as required.



GENERAL TOWER & SITE ACCESSORIES

### WAVEGUIDE BRACKETS 3-HOLE



**Waveguide Bracket Elevation** 



#### Notes:

Kit includes (1) bracket with required mounting hardware.
 Assembly used for mounting to 3/4" - 2 1/4" O.D. legs.
 (5) KY2041A required per 20' of tower for 4' O.C. spacing.


### WAVEGUIDE BRACKETS 8-HOLE (80 SERIES)



**NOTE:** These assemblies may be mounted on the inside or outside face of the tower.



GENERAL TOWER & SITE ACCESSORIES

### WAVEGUIDE BRACKETS 15-HOLE (90 SERIES)



WAF901521 Angle Waveguide Support & Bolt Assembly

Order (1) assembly part number WAF901521 for each diagonal brace bay that waveguides cross in a section. (Ex. (5) WAF901521 for a 20' tower section, (3) WAF901521 for a 12' tower section, etc.). This assembly may be mounted on outside of tower as shown or on inside as required.





1. Waveguide bridge is not designed to support personnel or equipment.

**WGBD2410** 

Double Bridge 2 Posts, 2 Bridge Panels (24"W x 10' L, each) (6) Trapeze Units





### Notes:

1. Waveguide bridge is not designed to support personnel or equipment.

### - ORDERING INFORMATION-

WGBS121014 Single Wide Bridge 2 Posts, 1 Bridge Panel (12"W x10'L) (3) Trapeze Units

> WGBD121014 Double Bridge

2 Posts, 2 Bridge Panels (12"W x 10'L, each) (6) Trapeze Units





## DIRECT EMBED POLES

Cap Plate

Port D

Port C

1'3

8' Separation

## DIRECT EMBED POLE STANDARD DESIGNS DIRECT EMBED POLES



ROHN Direct Embed Poles minimize site requirements, lowering lease rates and acquisition costs. They are designed for rapid installation, meeting the demands of today's dynamic communication environments. Whether you are supporting broadband, PCS, security or other lightweight systems, ROHN Tapered Steel Poles offer extremely efficient designs.

### FEATURES

- Completely hot-dip galvanized after fabrication
- Fast, easy installation
- Designed for applications with stringent deflection requirements
- Internal routing of transmission lines
- Each pole ships with the following:
  - Assembly Drawings and Standard Foundation Details
  - (4) 5" x 7" Ports with (2) port covers
  - (3) Jacking Lugs on each side of splices
  - (3) Ground attachment clips
  - (1) Vented cap plate
  - (1) Bearing plate welded to bottom
  - Safety Climb Support Brackets
  - (1) Safety warning sign
  - (1) Pole ID tag
  - Attachment clips for optional step bolts
- Optional items are available and may be ordered separately. Please see accessories on page 225.
- Custom designs available for any height or application.



**PORT ORIENTATIONS** 

Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please see page 225 for ordering information.

Phone (309) 566-3000 • Fax (309) 566-3079 • www.rohnnet.com • The Industry Standard

Pole Height Above Grade



220-ROHN

## **BUYERS GUIDE**

The pole loading charts included in this section were created to help you identify the standard pole that most closely meets your needs. The charts include the design wind speed, sway, total EPA that the pole can support and pole embedment requirements. Once the correct structure is identified, use the part number at the top of each section to order your pole.

Part Number ordering dire embed pole	ect									/ op	ay at TIA erational nd speed
				LIGHT		Ν	<b>NEDIUM</b>			HEAVY	
	WIND SPE	ED (MPH)		DEP30L	A)	C	DEP30M	Α		DEP30H	Α
			SV	VAY LIMI	Т	S	WAY LIM	п	S۱	NAY LIM	IT
	FASTEST	3-SECOND	4º	3°	2°	4º	3°	20	4º	3°	2°
	MILE	GUST	E	PA (FT <sup>2</sup> )	)		EPA (FT <sup>2</sup> )			EPA (FT <sup>2</sup>	)
Õ	70	85	69	49	29	110	108	68	170	170	143
m	80	100	52	49	29	80	80	68	126	126	126
1	90	110	38	38	29	59	59	59	95	95	95
	100	120	27	27	27	44	44	44	74	74	74
	110	130	19	19	19	32	32	32	57	57	57
Height Above	120	140	13	13	13	24	24	24	45	45	45
Grade	EMBED	OMENT	DEPTH	10' <b>DI</b>	<b>A.</b> 2.5′	DEPTH	11′ <b>DI</b>	<b>A.</b> 2.5′	DEPTH	13′ <b>DI</b>	<b>A.</b> 3.0'

Total effective projected area of antennas, mounts and lighting allowed on pole (see pg. 226)

Depth and diameter of embedment for gravel backfill. Installation adds 6" to the depth for gravel base

LO	ADI	NG	СН	ARTS
----	-----	----	----	------

				LIG	HT			MED	IUM			HEAV	Y	
	WIND SPE	ED (MPH)		DEP4	OLA		0	DEP4	OMA	1		DEP40	HA	
			SV	VAY L	IMIT	•	S۱	NAY	LIMI	Г	SV	VAY LII	TIN	
	FASTEST	3-SECOND	4º	3°		2°	4°	30		2°	4°	3°		2°
•	MILE	GUST	E	EPA (I	FT <sup>2</sup> )			EPA (	FT <sup>2</sup> )			EPA (F	<sup>2</sup> )	
Ò	70	85	69	49	)	29	110	10	8	68	170	170		143
4	80	100	52	49	)	29	80	80	)	68	126	126		126
	90	110	38	38	3	29	59	59	)	59	95	95		95
	100	120	27	27	7	27	44	44	ł	44	74	74		74
	110	130	19	19	)	19	32	32	2	32	57	57		57
	120	140	13	13	3	13	24	24	ł	24	45	45		45
	EMBED	OMENT	DEPTH	12′	DIA	. 2.5′	DEPTH	13′	DIA	. 2.5′	DEPTH	15′ <b>C</b>	PIA.	3.0′
				LIG	нт			MED	IUM			HEAV	Y	
	WIND SPE	ED (MPH)	C	DEP5	OLA		۵	DEP5	ома	1	0	DEP50	HA	
			SV	VAY L	IMIT		S۱	NAY	LIMI	Г	SV	VAY LII	ΛIT	
	FASTEST	3-SECOND	4°	30	D I	2°	4º	39		2°	4°	3°		2°
	MILE	GUST	E	EPA (I	FT <sup>2</sup> )		E	EPA (	FT <sup>2</sup> )		I	EPA (F1	2)	
Õ	70	85	69	49	)	29	110	10	8	68	170	170	1	43

2.5' **DEPTH** 16' **DIA.** 2.5' **DEPTH** 17' **DIA.** 3.0'

S



DEPTH 15' DIA.

**EMBEDMENT** 

			LIG	HT			MED	IUM			HEA	VY	
WIND SPE	ED (MPH)	( C	DEPe	50LA	1		DEP6	om/	A		DEP6	OHA	
		SV	VAY I	LIMIT	Г	S۱	WAY	LIMI	Т	S۱	VAY I	IMIT	
FASTEST	3-SECOND	4º	3	0	2°	4°	39	>	2°	4°	30	,	2°
MILE	GUST	E	EPA (	FT <sup>2</sup> )		EPA		FT <sup>2</sup> )			EPA (	FT <sup>2</sup> )	
70	85	52 35		5	19	99	80	)	48	150	15	0	104
80	100	46	3.	5	19	71	71 71		48	109	10	9	104
90	110	32	32	2	19	50 50		)	48	81	81		81
100	120	21	2	1	19	36	36	5	36	61	61		61
110	130	14	14	4	14	25	25	5	25	46	46	;	46
120	140	8	8	3	8	17	17	7	17	35	35	5	35
EMBED	OMENT	DEPTH	15′	DIA	. 2.5′	DEPTH	17′	DIA	. 3.0′	DEPTH	19′	DIA.	3.0′

## LOADING CHARTS

LIGHT MEDIUM HEAVY WIND SPEED (MPH) **DEP70LA** DEP70MA **DEP70HA** SWAY LIMIT SWAY LIMIT SWAY LIMIT FASTEST 3° 3° 3° 3-SECOND 4° 2° 4° 2° 2° 4° MILE EPA (FT<sup>2</sup>) EPA (FT<sup>2</sup>) EPA (FT<sup>2</sup>) GUST **EMBEDMENT** DEPTH 16' DIA. 3.0' **DEPTH** 18' **DIA.** 3.0' **DEPTH** 20' **DIA.** 3.5'

			LIG	HT			MED	NUI			HEA	VY	
WIND SPI	EED (MPH)	D	EP8	<b>OLA</b>		0	DEP8	OMA			DEP8	OHA	
		SV	VAY	LIMIT	Г	SI	NAY	LIMI	-	S۷	VAY L	IMIT	
FASTEST	3-SECOND	4º	3	0	2°	4°	39	>	2°	4º	3°		2°
MILE	GUST	E	EPA (	FT <sup>2</sup> )		I	EPA (	FT <sup>2</sup> )		I	EPA (F	T2)	
70	85	28	1	7	6	65	44	1	23	117	93		56
80	100	28	1	7	6	50	44	1	23	82	82		56
90	110	19	1	7	6	32	32	2	23	58	58		56
100	120	9	9	)	6	19	19	)	19	41	41		41
110	130	2	2	2	2	9	9		9	28	28		28
120	140	-	-	.	-	2	2		2	18	18		18
EMBED	OMENT	DEPTH	16′	DIA	. 3.0′	DEPTH	18′	DIA	. 3.0′	DEPTH	20′	DIA.	3.5′

			LIG	iHT			MED	MUI			HE/	AVY	
WIND SPE	ED (MPH)	C	DEPS	<b>OLA</b>			DEP	90MA			DEP	90H	Α
		SV	VAY	LIMIT		SI	WAY	LIMIT		S۱	NAY	LIM	Т
FASTEST	3-SECOND	4°	3	0	2°	4°	39	>	2°	4°	3	0	2°
MILE	GUST		EPA	(FT <sup>2</sup> )			EPA	(FT <sup>2</sup> )			EPA	(FT <sup>2</sup>	)
70	85	21	1	1	2	51	33	3	16	106	7	7	44
80	100	21	1	1	2	43	33	3	16	73	7.	3	44
90	110	14	1	1	2	25	25	5	16	50	5	0	44
100	120	4	2	1	2	12	12	2	12	33	3	3	33
110	130	-	-	-	2	3	3		3	21	2	1	21
120	140	-	-	-	-	-	-		-	13	21 13		13
EMBED	OMENT	DEPTH	18′	DIA.	3.0′	DEPTH	20′	DIA.	3.0′			<b>A.</b> 3.5	

90,

Products LLC

70′

80,

(-) Indicates that pole is not recommended for the tabulated wind speed

P

			LIGHT			MED	IUM			HEA	VY			
W	IND SPE	ED (MPH)	DI	EP10	DOLA	4	D	EP10	<b>OMA</b>	L	D	EP10	)0H/	A
			SV	VAY	LIM	Т	S	WAY	LIMIT		S٧	VAY I		-
FAS	STEST	3-SECOND	4º	3	0	2°	4°	30		2°	4°	30		2°
N	MILE	GUST	EPA (FT <sup>2</sup> )		)		EPA (	FT <sup>2</sup> )			EPA (FT <sup>2</sup> )			
	70	85	16 7		7	-	42	42 26		11	91	63	3	36
	80	100	16	7	7	-	36	26	5	11	65	63	3	36
	90	110	9	7	7	-	18 18		3	11	43	43	3	36
1	100	120	-	-		-	6	6		6	26	26	5	26
-	110	130	-	-		-	-	-		-	14	14	ł	14
1	120	140	-	-		-	-	-		-	7	7		7
	EMBED	MENT	DEPTH	18′	DI	<b>A.</b> 3.0′	DEPTH	20′	DIA.	3.5′	DEPTH	22′	DIA	. 3.5′

## LOADING CHARTS

100′

10′

20

			LIGHT			MEDIU	М		HEAVY	,
WIND SPE	ED (MPH)	D	EP110L	.Α	D	EP110	MA		DEP110	HA
		SV	VAY LIN	١IT	S	WAY LIN	٨IT	S۱	NAY LIM	IT
FASTEST	3-SECOND	4º	3°	2°	4º	3°	2°	4º	3°	2°
MILE	GUST		EPA (FT	<sup>2</sup> )		EPA (FT	<sup>-2</sup> )		EPA (FT	<sup>2</sup> )
70	85	23	13	-	51	32	14	103	70	41
80	100	23	13	-	47	32	14	77	70	41
90	110	13	13	-	25	25	14	50	50	41
100	120	-	-	-	9	9	9	31	31	31
110	130	-	-	-	-	-	-	17	17	17
120	140	-	-	-	-	-	-	8	8	8
EMBE	OMENT	DEPTH	19′ <b>D</b>	<b>IA.</b> 3.5'	DEPTH	21′ <b>D</b>	<b>IA.</b> 4.0'	DEPTH	22' <b>DI</b>	<b>A.</b> 4.0′

			LIGH	IT			MED	NUI	N			HE/	AVY	
WIND SPE	ED (MPH)	DI	EP12	0LA		D	EP1	20N	1A		D	DEP1	20HA	
		SV	VAY L	IMIT		S	WAY	LIM	IT		S۱	NAY	LIMIT	
FASTEST	3-SECOND	40	30		2°	4º	30	c	2	D	4º	3	0	2°
MILE	GUST	EPA (FT		FT <sup>2</sup> )		EPA (FT			2)			EPA	(FT <sup>2</sup> )	
70	85	18	10		-	39	24	1	6	,	90	6	2	35
80	100	18	10		-	36	24	1	6		80	6	2	35
90	110	5	5		-	15	15	5	6	)	55	5	5	35
100	120	-	-		-	-	-		-		36	3	6	35
110	130	-	-		-	-	-		-		23	2	3	23
120	140	-	-		-	-	-		-		14	1.	4	14
EMBED	OMENT	DEPTH	19′	DIA.	3.5′	DEPTH	22′	DI	Α.	4.0′	DEPTH	23′	DIA.	4.0′

	)
n	

			LIG	HT			MED	IUM			HEA	VY	
WIND SPE	ED (MPH)	D	EP13	30LA		D	EP13	30M/	۱	D	EP1	30F	IA
		SV	VAY L	IMIT	-	S	WAY	LIMI	-	S۱	VAY I	LIM	Т
FASTEST	3-SECOND	4º	39	0	2°	4°	30		2°	4°	39	>	2°
MILE	GUST		EPA (	(FT <sup>2</sup> )			EPA (	(FT <sup>2</sup> )			EPA	(FT <sup>2</sup>	)
70	85	19	8	;	-	39	24		6	83	57	7	30
80	100	19	8	;	-	39	24		6	76	57	7	30
90	110	14	8	3	-	24	24		6	51	51	I	30
100	120	2	2		-	11	11		6	32	32	2	30
110	130	-	-		-	-	-		-	21	21		21
120	140	-	-		-	-	-		-	10	10	)	10
EMBED	OMENT	DEPTH	22′	DIA	. 4.0′	DEPTH	23′	DIA	4.0′	DEPTH	24′	DI	<b>A.</b> 4.5′

( - ) Indicates that pole is not recommended for the tabulated wind speed



				LIGHT			MEDIUI	N		HEAV	ΥY
	WIND SPE	ED (MPH)	D	EP140L	Α	D	EP140	٨N	D	DEP14	0HA
			SV	VAY LIM	IT	S	NAY LIN	IIT	S٧	NAY LI	MIT
	FASTEST	3-SECOND	4º	3°	2°	4°	3°	2°	4°	30	2°
5	MILE	GUST		EPA (FT	<sup>2</sup> )		EPA (FT	<sup>2</sup> )		EPA (F	T <sup>2</sup> )
	70	85	16	5	-	42	26	6	86	62	31
	80	100	16	5	-	42	26	6	86	62	31
	90	110	8	5	-	36	26	6	66	62	31
	100	120	-	-	-	16	16	6	45	45	31
	110	130	-	-	-	-	-	-	28	28	28
	120	140	-	-	-	-	-	-	13	13	13
	EMBED	OMENT	DEPTH	24' <b>D</b>	<b>A.</b> 4.0′	DEPTH	25' <b>D</b>	<b>A.</b> 4.5′	DEPTH	26′	<b>DIA.</b> 4.5'

## LOADING CHARTS

			LIG	HT			MED	NUI			HE/	<b>AVY</b>	
WIND SPE	ED (MPH)	DE	EP15	0LA		D	DEP150MA			DEP150HA			
		SWAY LIMIT		SWAY LIMIT			S۱	NAY	LIMIT				
FASTEST	3-SECOND	4°	30	)	2°	4°	39	D I	2°	40	39	>	2°
MILE	GUST		EPA (FT <sup>2</sup> )		EPA (FT <sup>2</sup> )				EPA	(FT <sup>2</sup> )			
70	85	17	5		-	47	26	5	6	89	63	3	31
80	100	17	5		-	47	26	5	6	89	63	3	31
90	110	17	5		-	30	26	5	6	65	63	3	31
100	120	-	-		-	10	1(	)	6	39	39	9	31
110	130	-	-		-	-	-		-	22	22	2	22
120	140	-	-		-	-	-		-	6	6		6
EMBED	OMENT	DEPTH	24′	DIA.	4.0'	DEPTH	26′	DIA	4.5	DEPTH	27′	DIA.	5.0′

(-) Indicates that pole is not recommended for the tabulated wind speed

- 1. Pole designs conform to ANSI/TIA/EIA-222-F with 1/2" radial ice and to ANSI/TIA-222-G (Class I, Exposure B, Topographic Catagory I). Design criteria must be verified prior to installation based on site-specific requirements.
- 2. Embedment depths are based on "Normal" soil (TIA Rev. F) and clay "Presumptive" soil (TIA Rev. G) with aggregate backfill. Actual site soil design parameters must be verified prior to installation.
- 3. For corrosive groundwater and/or soil conditions, ROHN recommends additional corrosion control protection such as concrete backfill, additional protective coating over galvanizing or the installation of sacrificial anodes.
- 4. Embedment depths may require adjustment based on local soil conditions.



## 

## **PARTS & ACCESSORIES**





## PORT DIMENSIONS





## ANTENNA INDEX

	DISH ANTENNA								
DIAMETED	El	CWAY LIMIT							
DIAMETER	W/ RADOME	W/O RADOME	SWAY LIMIT						
(1) 2 FT.	3	6	4°						
(1) 3FT.	7	13	3°						
(1) 4FT.	11	22	2°						
(2) 2 FT. B-TO-B	5	8	4°						
(2) 3 FT. B-TO-B	11	18	3°						
(2) 4 FT. B-TO-B	19	34	2°						

FLAT PANEL ANTENNA								
DIMENSION	EPA - FT <sup>2</sup>	SWAY LIMIT						
1 FT. SQUARE W/ MOUNT	2	4º						
2 FT. SQUARE W/ MOUNT	5	2°						
3 FT. SQUARE W/ MOUNT	11	2°						

- 1. The above antenna data is intended to assist in the selection of the appropriate ROHN pole. Once the total EPA and sway limit is determined for the antennas, the standard ROHN pole can be selected from the tabulated values. (See example below)
- 2. Tabulated pole EPA capacities represent the maximum EPA capacity of a pole. The capacity is based on the assumption that 80% of the total EPA is located at the top of the pole and the remaining 20% is located 20 ft. below the top. When all loading is located at the top of the pole, the tabulated EPA capacity must be reduced by 20%.
- 3. Sway limits are determined under a 50 MPH fastest-mile (Rev. F) or 60 MPH 3-second gust (Rev. G) wind speed.
- 4. The antenna effective projected areas (EPA) and sway limits provided in the antenna index are guidelines for typical antenna systems. Other values may apply for specific antenna models or for site-specific systems.

### Determine EPA & Sway Limit for Dishes or Flat Panel Antennas

- 1. Using the antenna index, determine the types of antennas to be installed on the pole.
- 2. Add together the EPA value of all the antennas to be supported.
- 3. Determine the most restrictive sway limit considering all the antennas to be supported. For example, for one 3' dish with a 3° sway limit and one 1' flat panel with a 4° sway limit, the sway limit for the pole would be 3° and the required pole EPA capacity would be 13+2=15 ft <sup>2</sup>.
- 4. If all antennas are to be supported at the top of the pole, only 80% of the tabulated EPA capacity shown may be considered when selecting a pole. Alternately, the antenna EPA to be supported may be increased by 25%. For example, the required pole capacity would be 15x1.25=19 ft<sup>2</sup>.
- 5. Using the pole sway limit and the required EPA capacities, the appropriate pole may be determined from the tabulated values. For example, for a 120 ft. pole and a 100 mph 3-sec gust wind speed, a medium pole [P/N: DEP120MA] would be required for an EPA capacity greater than 19 ft<sup>2</sup> for a 3° sway limit.



## **PRE-ENGINEERED UTILITY POLES**



## PRE-ENGINEERED UTILITY POLES

### **GENERAL USE**

ROHN Pre-Engineered steel utility poles offer a light duty solution to satisfy utilities desiring an alternative to wood poles. ROHN's line of Pre-Engineered poles are lighter than typical wooden and concrete poles and provide easy installation and low maintenance. ROHN offers Pre-Engineered poles for either direct embed or flange installations. The poles come standard with a hot-dip galvanized coating, but can also be painted or fabricated with weathering steel.

### FEATURES

- Fast, easy installation
- Each pole ships with the following:
  - Standard ground sleeve (at grade)
  - Standard sub-grade corrosion coating to 6" above grade
  - Cap plate
  - (2) 4" Nema Ground Lugs
  - Bearing Plate with drain hole
  - Jacking Lugs (at slip splices)
- Optional items are available and may be ordered separately:
  - Step attachment clips
  - Climbing pegs / step bolts
  - Safety climb device
  - Port holes
  - Flanged base
  - Painted finish
- Custom designs are available for any height or application.



TOTAL LENGTH (FT) ''L''	TIP AGL (FT)	Part Number	tip Diameter (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LBS)	MOMENT CAPACITY (FT-KIP)	OTM		
40	34.0	H10RP040	12.0	21.2	0.230	1	1945	368	0		
45	38.5	H10RP045	12.0	22.4	0.231	1	2253	420	'a		
50	43.0	H10RP050	12.0	23.5	0.230	1	2581 3074	472	U		
55 60	47.5 52.0	H10RP055 H10RP060	12.0 12.0	25.1 26.3	0.238 0.238	2	3074	523 576			
65	52.0 56.5	H10RP065	12.0	20.5	0.230	2	3896	627	11		
70	61.0	H10RP070	12.0	27.6	0.240	2	4304	680			
75	65.5	H10RP075	12.0	30.1	0.241	2	4765	730			
80	70.0	H10RP080	12.0	31.3	0.241	2	5210	785	00		
85	74.5	H10RP085	12.0	32.6	0.242	2	5666	834	ω		
90	79.0	H10RP090	12.0	33.8	0.242	2	6148	890			
95	83.5	H10RP095	12.0	34.4	0.236	3	6779	937	Ŧ		
100	88.0	H10RP100	12.0	35.7	0.237	3 3	7282	995	1		
105	92.5	H10RP105	12.0	36.9	0.237	3	7918	1041	Χ.		
110	97.0	H10RP110	12.0	38.2	0.238	3	8459	1100	<u>P</u>		
115	101.5	H10RP115	12.0	39.4	0.238	3	9153	1141			
120	106.0	H10RP120	12.0	40.7	0.239	3	9731	1206	S		

## BUYERS GUIDE

The part number shown in the chart includes the pole loading and the overall length of the structure. The coating suffix (<u>W</u> or <u>G</u>) is added by the customer at the time of the order, along with any optional items (flanged base, step clips and safety device, ports, special grounding lugs, special ground sleeves and paint).

The example below provides a guide, for ordering convenience.



Diameters are out-to-out width between flats. Slope is change in diameter per foot of length. Overturning moment capacity is at grade.

In the example shown, the customer is purchasing an H10RP, with an overall length of 50'. The pole is to be constructed of Weathering Steel, with a Direct Embed Base.

NOTE: Values in ( ) indicate horizontal factored loads applied 2' from the tip.

H10RP (18,400# / 11,500#)

Equivalent factored load for wood poles

Factored load for steel poles

Embedment depths illustrated may require adjustment based on local soil conditions.

OTM @ 5' = 51 ft-kips

7.5" Tip

## **PRODUCT DATA**

TOTAL LENGTH (FT) ''L''	TIP AGL (FT)	Part Number	tip Diameter (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	C1RP040	7.5	13.1	0.140	1	981	91
45	38.5	C1RP045	7.5	13.1	0.124	1	1092	103
50	43.0	C1RP050	7.5	13.1	0.112	1	1201	117
55	47.5	C1RP055	7.5	14.8	0.133	2	1442	128
60	52.0	C1RP060	7.5	14.8	0.122	2	1553	143
65	56.5	C1RP065	7.5	17.2	0.149	2	1876	153
70	61.0	C1RP070	7.5	17.2	0.139	2	1999	169
75	65.5	C1RP075	7.5	19.5	0.160	2	2337	179
80	70.0	C1RP080	7.5	19.5	0.150	2	2477	196
85	74.5	C1RP085	7.5	21.3	0.162	2	2840	204
90	79.0	C1RP090	7.5	21.3	0.153	2	2937	223
95	83.5	C1RP095	7.5	23.7	0.171	3	3403	229
100	88.0	C1RP100	7.5	23.7	0.162	3	3560	250
105	92.5	C1RP105	7.5	25.7	0.173	3	4033	267
110	97.0	C1RP110	7.5	25.7	0.165	3	4197	277
115	101.5	C1RP115	7.5	27.5	0.174	3	4643	280
120	106.0	C1RP120	7.5	27.5	0.167	3	4820	305

## C1RP (4,500#/2,812#)

## C 2 R P (3,700#/2,313#)

TOTAL LENGTH (FT) "L"	tip Agl (Ft)	part Number	tip Diameter (IN)	Base Diameter (IN)	slope (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	C2RP040	7.5	13.1	0.140	1	981	75
45	38.5	C2RP045	7.5	14.5	0.156	1	1161	84
50	43.0	C2RP050	7.5	14.5	0.140	1	1277	96
55	47.5	C2RP055	7.5	15.9	0.153	2	1505	105
60	52.0	C2RP060	7.5	15.9	0.140	2	1629	116
65	56.5	C2RP065	7.5	17.3	0.151	2	1882	137
70	61.0	C2RP070	7.5	17.3	0.140	2	2007	147
75	65.5	C2RP075	7.5	18.7	0.149	2	2274	157
80	70.0	C2RP080	7.5	18.7	0.140	2	2406	168
85	74.5	C2RP085	7.5	20.1	0.148	2	2674	178
90	79.0	C2RP090	7.5	20.1	0.140	2	2818	189
95	83.5	C2RP095	7.5	22.0	0.153	3	3222	199
100	88.0	C2RP100	7.5	22.0	0.145	3	3368	209
105	92.5	C2RP105	7.5	23.7	0.154	3 3	3774	215
110	97.0	C2RP110	7.5	23.7	0.147	3 3	3928	220
115	101.5	C2RP115	7.5	25.5	0.157	3	4383	230
120	106.0	C2RP120	7.5	25.5	0.150	3	4547	241

## C3RP (3,000#/1,875#)

TOTAL LENGTH (FT) "L"	tip Agl (Ft)	Part Number	tip Diameter (IN)	BASE DIAMETER (IN)	slope (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	C3RP040	7.5	13.1	0.140	1	981	61
45	38.5	C3RP045	7.5	14.5	0.156	1	1161	68
50	43.0	C3RP050	7.5	14.5	0.140	1	1277	78
55	47.5	C3RP055	7.5	15.9	0.153	2	1505	85
60	52.0	C3RP060	7.5	15.9	0.140	2	1626	96
65	56.5	C3RP065	7.5	17.3	0.151	2	1882	102
70	61.0	C3RP070	7.5	17.3	0.140	2	2007	113
75	65.5	C3RP075	7.5	18.7	0.149	2	2274	119
80	70.0	C3RP080	7.5	18.7	0.140	2	2406	131
85	74.5	C3RP085	7.5	20.1	0.148	2	2677	136
90	79.0	C3RP090	7.5	20.1	0.140	2	2818	144
95	83.5	C3RP095	7.5	21.5	0.147	3	3169	153
100	88.0	C3RP100	7.5	21.5	0.140	3	3312	161
105	92.5	C3RP105	7.5	22.9	0.147	3	3678	170
110	97.0	C3RP110	7.5	22.9	0.140	3	3828	178
115	101.5	C3RP115	7.5	24.3	0.146	3	4224	187
120	106.0	C3RP120	7.5	24.3	0.140	3	4384	195



Products LLC



7.5" - 8" Tip

Embedment  $(L \times .10) + 2'$ 

13.1" - 33" Base Diameter

Products LLC

## **PRODUCT DATA**

TOTAL LENGTH (FT) "L"	TIP AGL (FT)	Part Number	TIP DIAMETER (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	H1RP040	7.5	13.1	0.140	1	981	109
45	38.5	H1RP045	7.5	14.2	0.149	1	1161	138
50	43.0	H1RP050	7.5	14.2	0.134	1	1261	140
55	47.5	H1RP055	7.5	16.0	0.155	2	1516	153
60	52.0	H1RP060	7.5	16.0	0.142	2	1636	171
65	56.5	H1RP065	7.5	18.5	0.169	2	1966	184
70	61.0	H1RP070	7.5	18.5	0.157	2	2102	202
75	65.5	H1RP075	7.5	21.0	0.180	2	2465	214
80	70.0	H1RP080	7.5	21.0	0.169	2	2611	234
85	74.5	H1RP085	7.5	23.0	0.182	2	2952	245
90	79.0	H1RP090	7.5	23.0	0.172	2	3092	246
95	83.5	H1RP095	7.5	26.0	0.195	3	3705	278
100	88.0	H1RP100	7.5	26.0	0.185	3	3872	298
105	92.5	H1RP105	7.5	28.0	0.195	3	4309	305
110	97.0	H1RP110	7.5	28.0	0.186	3	4488	330
115	101.5	H1RP115	7.5	29.5	0.191	3	4950	336
120	106.0	H1RP120	7.5	29.5	0.183	3	5133	363

### H1RP (5,400#/3,375#)

## H 2 R P (6,400#/4,000#)

TOTAL LENGTH (FT) "L"	tip Agl (Ft)	Part Number	tip Diameter (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	H2RP040	7.8	13.6	0.145	1	1016	129
45	38.5	H2RP045	7.8	16.0	0.182	1	1251	146
50	43.0	H2RP050	7.8	16.0	0.164	1	1375	165
55	47.5	H2RP055	7.8	17.5	0.176	2	1638	182
60	52.0	H2RP060	7.8	17.5	0.162	2	1765	202
65	56.5	H2RP065	7.8	19.4	0.178	2	2056	218
70	61.0	H2RP070	7.8	19.4	0.166	2	2194	239
75	65.5	H2RP075	7.8	22.0	0.189	2	2592	254
80	70.0	H2RP080	7.8	22.0	0.178	2	2744	277
85	74.5	H2RP085	7.8	24.5	0.196	2	3138	290
90	79.0	H2RP090	7.8	24.5	0.186	2	3304	314
95	83.5	H2RP095	7.8	27.3	0.205	2 3	3880	326
100	88.0	H2RP100	7.8	27.3	0.195	3	4055	352
105	92.5	H2RP105	7.8	29.4	0.206	3	4510	362
110	97.0	H2RP110	7.8	29.4	0.196	3 3 3	4698	390
115	101.5	H2RP115	7.8	31.4	0.205	3	5236	398
120	106.0	H2RP120	7.8	31.4	0.197	3	5433	428

## H 3 R P (7,500#/4,688#)

TOTAL LENGTH (FT) ''L''	TIP AGL (FT)	Part Number	TIP DIAMETER (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	H3RP040	8.0	14.8	0.170	1	1077	150
45	38.5	H3RP045	8.0	17.0	0.200	1	1309	171
50	43.0	H3RP050	8.0	17.0	0.180	1	1440	193
55	47.5	H3RP055	8.0	18.8	0.196	2	1728	213
60	52.0	H3RP060	8.0	18.8	0.180	2	1865	235
65	56.5	H3RP065	8.0	21.0	0.200	2	2184	255
70	61.0	H3RP070	8.0	21.0	0.186	2	2335	278
75	65.5	H3RP075	8.0	23.2	0.203	2	2708	298
80	70.0	H3RP080	8.0	23.2	0.190	2	2870	321
85	74.5	H3RP085	8.0	26.0	0.212	2	3302	340
90	79.0	H3RP090	8.0	26.0	0.200	2	3475	365
95	83.5	H3RP095	8.0	28.6	0.217	3	4044	382
100	88.0	H3RP100	8.0	28.6	0.206	3	4226	407
105	92.5	H3RP105	8.0	31.2	0.221	3	4775	424
110	97.0	H3RP110	8.0	31.2	0.211	3	4973	451
115	101.5	H3RP115	8.0	33.0	0.217	3 3	5480	466
120	106.0	H3RP120	8.0	33.0	0.208	3	5684	494

OTM @ 5' = 52 ft-kips

OTM @ 5' = 57 ft-kips

OTM @ 5' = 62 ft-kips

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UTILITY POLES - P

OTM @ 5' = 71 ft-kips

OTM @

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82 ft-kips

8.5″ <u>- 9</u>″ Tip

## **PRODUCT DATA**

## H4RP (8,700#/5,438#)

TOTAL LENGTH (FT) "L"	tip Agl (Ft)	part Number	tip Diameter (IN)	BASE DIAMETER (IN)	Slope (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)	
40	34.0	H4RP040	8.5	16.5	0.200	1	1116	174	
45	38.5	H4RP045	8.5	18.2	0.216	1	1336	199	
50	43.0	H4RP050	8.5	18.2	0.194	1	1476	223	
55	47.5	H4RP055	8.5	20.2	0.213	2	1786	247	
60	52.0	H4RP060	8.5	20.2	0.195	2	1935	273	
65	56.5	H4RP065	8.5	22.2	0.211	2	2253	296	
70	61.0	H4RP070	8.5	22.2	0.196	2	2410	322	
75	65.5	H4RP075	8.5	24.3	0.211	2	2788	345	
80	70.0	H4RP080	8.5	24.3	0.198	2	2956	372	
85	74.5	H4RP085	8.5	27.2	0.220	2	3403	394	
90	79.0	H4RP090	8.5	27.2	0.208	2	3589	421	
95	83.5	H4RP095	8.5	30.0	0.226	3	4171	443	
100	88.0	H4RP100	8.5	30.0	0.215	3	4365	471	
105	92.5	H4RP105	8.5	32.3	0.227	3	4929	492	
110	97.0	H4RP110	8.5	32.3	0.216	3	5137	522	
115	101.5	H4RP115	8.5	34.9	0.230	3	5766	541	
120	106.0	H4RP120	8.5	34.9	0.220	3	5985	572	

## H 5 R P (10,000#/6,250#)

TOTAL LENGTH (FT) "L"	tip Agl (Ft)	part Number	tip Diameter (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)	OTM
40	34.0	H5RP040	9.0	17.5	0.213	1	1181	200	
45	38.5	H5RP045	9.0	20.0	0.244	1	1447	228	0
50	43.0	H5RP050	9.0	20.0	0.220	1	1601	257	.e
55	47.5	H5RP055	9.0	22.0	0.236	2	1929	284	U
60	52.0	H5RP060	9.0	22.0	0.217	2	2090	314	
65	56.5	H5RP065	9.0	24.3	0.235	2	2459	341	
70	61.0	H5RP070	9.0	24.3	0.219	2	2631	371	
75	65.5	H5RP075	9.0	26.5	0.233	2	3016	397	00
80	70.0	H5RP080	9.0	26.5	0.219	2	3198	429	Ö
85	74.5	H5RP085	9.0	29.0	0.235	2	3625	453	-
90	79.0	H5RP090	9.0	29.0	0.222	2	3820	487	T
95	83.5	H5RP095	9.0	31.7	0.239	3	4436	509	- T
100	88.0	H5RP100	9.0	31.7	0.227	3	4640	545	T
105	92.5	H5RP105	9.0	34.3	0.241	3	5231	566	
110	97.0	H5RP110	9.0	34.3	0.230	3	5449	603	σ
115	101.5	H5RP115	9.0	37.0	0.243	3	6137	622	Ň
120	106.0	H5RP120	9.0	37.0	0.233	3	6365	662	

## H6RP (11,400#/7,125#)

TOTAL LENGTH (FT) "L"	TIP AGL (FT)	Part Number	tip Diameter (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	H6RP040	9.0	18.3	0.230	1	1211	228
45	38.5	H6RP045	9.0	21.0	0.267	1	1495	260
50	43.0	H6RP050	9.0	21.0	0.240	1	1655	292
55	47.5	H6RP055	9.0	23.2	0.258	2	2003	324
60	52.0	H6RP060	9.0	23.4	0.237	2	2173	357
65	56.5	H6RP065	9.0	25.7	0.257	2	2565	388
70	61.0	H6RP070	9.0	25.9	0.239	2	2741	421
75	65.5	H6RP075	9.0	28.3	0.257	2	3191	452
80	70.0	H6RP080	9.0	28.3	0.241	2	3381	486
85	74.5	H6RP085	9.0	30.8	0.256	2	3816	517
90	79.0	H6RP090	9.0	30.8	0.242	2	4021	551
95	83.5	H6RP095	9.0	33.4	0.257	3	4622	581
100	88.0	H6RP100	9.0	33.4	0.244	3	4835	616
105	92.5	H6RP105	9.0	37.0	0.267	3	5592	645
110	97.0	H6RP110	9.0	37.0	0.255	3	5820	681
115	101.5	H6RP115	9.0	38.5	0.257	3	7182	709
120	106.0	H6RP120	9.0	38.5	0.246	3	7529	746



Products LLC

75 X X

Embedment

(L x . 10) + 2'

16.5" - 38.5" Base Diameter 10.0" Tip

## **PRODUCT DATA**

## H7RP (13,120#/8,200#)

TOTAL LENGTH (FT) "L"	TIP AGL (FT)	PART NUMBER	TIP DIAMETER (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	H7RP040	10.0	20.0	0.250	1	1336	263
45	38.5	H7RP045	10.0	21.3	0.250	1	1558	299
50	43.0	H7RP050	10.0	22.5	0.250	1	1791	337
55	47.5	H7RP055	10.0	22.8	0.233	2	2565	373
60	52.0	H7RP060	10.0	24.0	0.233	2	2867	411
65	56.5	H7RP065	10.0	25.2	0.234	2	3180	446
70	61.0	H7RP070	10.0	26.4	0.234	2	3509	485
75	65.5	H7RP075	10.0	27.6	0.235	2	3816	521
80	70.0	H7RP080	10.0	28.8	0.235	2	4219	559
85	74.5	H7RP085	10.0	30.2	0.238	2	4643	595
90	79.0	H7RP090	10.0	31.3	0.236	2	5008	634
95	83.5	H7RP095	10.0	31.9	0.231	3	5899	668
100	88.0	H7RP100	10.0	33.1	0.231	3	6365	710
105	92.5	H7RP105	10.0	34.3	0.231	3	6853	742
110	97.0	H7RP110	10.0	35.5	0.232	3 3 3 3	7356	784
115	101.5	H7RP115	10.0	36.7	0.232		7853	816
120	106.0	H7RP120	10.0	37.9	0.233	3	8369	859

## H8RP (15,040#/9,400#)

TOTAL LENGTH (FT) "L"	TIP AGL (FT)	PART NUMBER	TIP DIAMETER (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	H8RP040	10.0	19.2	0.230	1	1712	301
45	38.5	H8RP045	10.0	20.4	0.231	1	1993	343
50	43.0	H8RP050	10.0	21.5	0.230	1	2295	385
55	47.5	H8RP055	10.0	22.2	0.222	2	2645	428
60	52.0	H8RP060	10.0	23.3	0.222	2	2968	471
65	56.5	H8RP065	10.0	24.4	0.222	2	3366	512
70	61.0	H8RP070	10.0	25.6	0.223	2	3726	556
75	65.5	H8RP075	10.0	26.8	0.224	2	4161	597
80	70.0	H8RP080	10.0	27.9	0.224	2	4553	642
85	74.5	H8RP085	10.0	29.1	0.225	2	4961	682
90	79.0	H8RP090	10.0	30.2	0.224	2	5385	727
95	83.5	H8RP095	10.0	30.9	0.220	3	5925	766
100	88.0	H8RP100	10.0	32.0	0.220	3	6331	814
105	92.5	H8RP105	10.0	33.2	0.221	3	6917	851
110	97.0	H8RP110	10.0	34.3	0.221	3	7404	900
115	101.5	H8RP115	10.0	35.4	0.221	3	8040	935
120	106.0	H8RP120	10.0	36.6	0.222	3	8560	986

## H9RP (16,800#/10,500#)

	TOTAL LENGTH (FT) "L"	TIP AGL (FT)	PART NUMBER	TIP DIAMETER (IN)	BASE DIAMETER (IN)	SLOPE (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)	OTM
	40	34.0	H9RP040	10.0	20.0	0.250	1	1754	315	
	45	38.5	H9RP045	10.0	21.2	0.249	1	2050	383	0
	50	43.0	H9RP050	10.0	22.5	0.250	1	2364	420	U
The second	55	47.5	H9RP055	10.0	23.1	0.238	2	2740	478	U.
	60	52.0	H9RP060	10.0	24.5	0.238	2	3085	526	
100 B	65	56.5	H9RP065	10.0	25.7	0.240	2	3477	572	
Embedment	70	61.0	H9RP070	10.0	27.0	0.240	2	3853	621	
	75	65.5	H9RP075	10.0	28.1	0.241	2	4314	667	
(L x .10) + 2'	80	70.0	H9RP080	10.0	29.5	0.241	2	4728	716	ω
	85	74.5	H9RP085	10.0	30.7	0.242	2	5175	761	ω
	90	79.0	H9RP090	10.0	32.0	0.242	2	5607	812	-
	95	83.5	H9RP095	10.0	33.2	0.236	3	6153	856	Ŧ
20.0" - 38.7"	100	88.0	H9RP100	10.0	33.9	0.237	3	6625	908	<u> </u>
	105	92.5	H9RP105	10.0	35.1	0.237	3	7240	950	
Base Diameter	110	97.0	H9RP110	10.0	36.2	0.238	3	7754	1004	
	115	101.5	H9RP115	10.0	37.5	0.238	3	8401	1045	D
	120	106.0	H9RP120	10.0	38.7	0.239	3	8946	1100	S

OTM @ 5' = 85 ft-kips

OTM @ ັ [] 130 ft-kips

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OTM @ 5′ = 183 ft-kips

12.0" Tip

## PRODUCT DATA

TOTAL LENGTH (FT) "L"	tip Agl (Ft)	part Number	TIP DIAMETER (IN)	BASE DIAMETER (IN)	Slope (IN/FT)	NO. SECTIONS	WEIGHT (LB)	OVERTURNING MOMENT CAPACITY (FT-KIP)
40	34.0	H10RP040	12.0	21.2	0.230	1	1945	368
45	38.5	H10RP045	12.0	22.4	0.231	1	2253	420
50	43.0	H10RP050	12.0	23.5	0.230	1	2581	472
55	47.5	H10RP055	12.0	25.1	0.238	2	3074	523
60	52.0	H10RP060	12.0	26.3	0.238	2	3440	576
65	56.5	H10RP065	12.0	27.6	0.240	2	3896	627
70	61.0	H10RP070	12.0	28.8	0.240	2	4304	680
75	65.5	H10RP075	12.0	30.1	0.241	2	4765	730
80	70.0	H10RP080	12.0	31.3	0.241	2	5210	785
85	74.5	H10RP085	12.0	32.6	0.242	2	5666	834
90	79.0	H10RP090	12.0	33.8	0.242	2	6148	890
95	83.5	H10RP095	12.0	34.4	0.236	3	6779	937
100	88.0	H10RP100	12.0	35.7	0.237	3	7282	995
105	92.5	H10RP105	12.0	36.9	0.237	3	7918	1041
110	97.0	H10RP110	12.0	38.2	0.238	3	8459	1100
115	101.5	H10RP115	12.0	39.4	0.238	3	9153	1141
120	106.0	H10RP120	12.0	40.7	0.239	3	9731	1206

## H 1 0 R P (18,400# / 11,500#)

### **Design Notes:**

- 1. Pole designs are in accordance with ASCE 48, "Design of Steel Transmission Pole Structures".
- 2. Pole sections are ASTM grade 65 material with a charpy impact value of 15 ft-lbs at -20 F.
- 3. Multiple section poles include slip splice joints with a minimum slip length equal to 1.5 times the inside diameter across flats of the outer section at the splice.
- 4. Galvanized poles are hot-dip galvanized in accordance with ASTM A123.
- 5. Tabulated weights assume galvanized poles.

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Embedment  $(L \times .10) + 2'$ 

21.2" - 40.7" Base Diameter UTILITY POLES-



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## UTILITY STRUCTURES

## UTILITY STRUCTURES





### GENERAL

ROHN has been a trusted name in quality engineered structures since 1948. Our extensive engineering capabilities include in-house structural and foundation design. We are able to design to both domestic and international standards. ROHN is one of the few tower designers and manufacturers able to provide drawings sealed by a Professional Engineer, to customers in 49 states as well as Washington DC and Puerto Rico. ROHN is able to fabricate even the most difficult projects with accuracy and reliability. ROHN can optimize pole designs based on individual customer requirements, manufacturing efficiencies and material availability. Our commitment to the Utility industry is to provide world class quality products with the shortest lead time.

### CERTIFICATIONS

- CWB Certified Welding Fabricator
- AWS Certified Welding Fabricator, Inspectors and Educators
- Dual AISC Certified Steel Fabricator (Bridges & Highways)
- City of Los Angeles Certified Fabricator
- Clark County Certified Fabricator
- Multiple Vendor Certification

### CAPABILITIES

- Heavy Duty Transmission & Distribution Poles
- Direct Embed & Base Plated Poles
- Lattice Structures
- Switches & Substation Steel
- Galvanized, Weathering Steel & Painted Finishes
- Tapered Slip Fit or Connection Flanged Poles



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### TRANSMISSION

ROHN fabricates transmission structures for projects ranging from light-duty in-line poles up to the largest diameter dead end structures. The structures are cut, formed, fabricated and galvanized on site at ROHN. ROHN can provide engineering, detailing and our AISC Certified fabrication facility can support large or small transmission projects across the globe.

### DISTRIBUTION

ROHN provides structures to support electric power distribution in its many forms. ROHN offers both pre-engineered steel structures (wood pole equivalents) and larger distribution structures that can either be flanged at the base or direct embedded. ROHN also offers a wide selection of corrosion resistant coatings to guarantee the product life.

### SUBSTATION STEEL

ROHN fabricates all forms of substation steel to allow the entire transmission and distribution build to be supplied by ROHN. We have hollow steel structures in stock to turn substation work around on time to keep pace with project schedules. ROHN can supply all cross arms, uprights, H-frames and any steel frame or support to complete the substation. Each substation item is hot-dip galvanized after fabrication for corrosion resistance.

### **SWITCHES**

ROHN fabricates switch steel structures including all static masts, buss supports, arrestor structures, and all other steel components that make up the switch. The steel is fabricated by AWS and CWB welders in our AISC certified fabrication plant. From start to finish, we have your project covered.





## TRANSPORTATION STRUCTURES





### GENERAL

ROHN has been a trusted name in quality engineered structures since 1948. Our engineers study every aspect of a prospective job before designing a structure to fit your needs. We are able to design to both domestic and international standards. ROHN provides professional engineering certification for our designs. Our engineers are certified in 49 states as well as Washington DC and Puerto Rico. ROHN is able to fabricate the most difficult projects with accuracy and reliability. ROHN can optimize pole designs based on individual customer requirements, manufacturing efficiencies and material availability. Our commitment to the Transportation Industry is to provide world class quality products with the shortest lead time.

### CERTIFICATIONS

- AISC Certified Steel Fabricator (Buildings & Simple Steel Bridges)
- AWS Certified Welders, Inspectors and Educators
- CWB Certified Welding Fabricator
- City of Los Angeles Certified Fabricator
- Clark County Certified Fabricator
- Multiple Vendor Certifications
- Manufactured to AASHTO Standards

### CAPABILITIES

- Mast Arms
- Monotube Assemblies
- Steel Strain Poles
- High Past Poles
- Galvanized or Painted Finishes
- Weathering Steel
- Sign Structures

-TRANSPORTATION STRUCTURES

### **MAST ARMS**

ROHN is considered the quality leader to state, county and municipal buyers of mast arm structures. ROHN mast arms are in service at intersections as wide as 88'. Our designs conform to all AASHTO standards as well as local design codes. ROHN's mast arms can be hot-dip galvanized and can also be painted upon request.

### **HIGH MAST POLES**

For years, ROHN has been a reliable manufacturer of high mast lighting poles for state D.O.T. projects, prisons, port authorities and other commercial projects across the country. These organizations and many others choose ROHN because of our proven quality in manufacturing and design, as well as our focus on finding the best possible value for our customers.

High mast lighting poles range in height from 60' to 150' and are designed to accommodate a number of lowering device manufacturers' equipment. High mast poles can be galvanized or painted based on customer requirements.

#### **MONOTUBE ASSEMBLIES**

In applications where a very long span is needed and a more decorative appearance is needed, some State Departments of Transportation will specify monotube assemblies for Tubular Signal Structures and Sign Bridge Applications.

All ROHN monotube assemblies are designed to AASHTO standards and comply with appropriate state specifications. These monotube assemblies can range from 20' to 200' and are designed to accommodate a number of various highway signs and signals. Monotube assemblies can be galvanized or painted based on customer requirements.

#### SIGN STRUCTURES

ROHN Products, LLC has the experience and expertise to address all of your metal fabrication needs. Through 60 years, ROHN has expanded into fabricated Sign Structures and now has the capabilities to design and build Steel Overhead Sign Trusses, Cantilever Structures, Butterfly Structures, and DMS Sign Structures. ROHN Products, LLC is certified by the American Institute of Steel Construction for both Steel Building Structures and Simple Steel Bridges. Our welders are qualified in accordance with the American Welding Society and various State DOT Requirements.









## WIND TURBINE STRUCTURES





### GENERAL

ROHN provides an extensive analysis on Wind Turbine structures that includes examination of extreme wind, extreme ice, yawing, fatigue, vibration and more. The dynamic nature of a wind turbine requires an additional investment in the analysis of the support structure to ensure the structures perform safely and efficiently.

### CERTIFICATIONS

- AISC Certified Steel Fabricator (Buildings & Simple Steel Bridges)
- AWS Certified Welders, Inspectors and Educators
- CWB Certified Welding Fabricator
- City of Los Angeles Certified Fabricator
- Clark County Certified Fabricator
- Multiple Vendor Certifications

### CAPABILITIES

- Pole, Self-Supporting Latticed and Guyed Mast Designs
- Fatigue Analysis
- Natural Frequency Analysis
- Preparation of Loading Documents
- Braking, Short Circuit, Shutdown Analysis
- Special Design Requests Considered



WIND TURBINE STRUCTURES

### **SELF-SUPPORTING TOWERS**

ROHN Self-Supporting Towers provide an efficient design specific for each turbine's loading criteria. The towers are designed with tubular or solid legs and angle braces. The tower top flange is designed with a transition plate to receive the turbine base. ROHN lightweight towers have been designed with hinged bases to allow the tower to be slowly lowered for turbine maintenance and repairs.



#### POLES

ROHN designs both tapered slip joint poles and flanged poles to support Wind Turbines. ROHN turbine support poles have ranged from 30' in height to 140' in height supporting turbines up to 50 kW.





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# TELESCOPING MASTS



### **TELESCOPING MASTS** FOR USE IN GUYED OR BRACKETED INSTALLATIONS

ROHN Telescoping Masts are available in 20', 30', 33', 40' and 50' nominal heights. All are pre-galvanized for corrosion protection and come assembled with hardware.

### Specifications:

All installations must be guyed or bracketed. Installation of masts should be done by experienced professionals.

Telescoping Masts are not recommended for commercial, CB or beam antenna installations.

Part No.	Wt.	O.D. Bottom	O.D. Top	<b>Shipping Length</b>
H20	17 lbs.	1 1/2″	1 1/4″	123″
H30	27 lbs.	1 3/4″	1 1/4″	123″
H40	36 lbs.	2″	1 1/4″	123″
H50	46 lbs.	2 1/4″	1 1/4″	123″
9H50*	34 lbs.	2 1/4″	1 1/4″	99″

\*9H50 is UPS shippable.

### Note:

Guys, guy hardware, anchors and base mount must be ordered separately. Refer to pages 245-248 for standard kits and page 249 for individual components.



-TELESCOPING MASTS

## **TELESCOPING MASTS** H20|H30|H40|H50|9H50



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Products LLC

## INSTALLATION GUIDELINES

### All Telescoping Mast kits include guys, connection hardware, anchors and ground mount. Mast must be ordered separately.





## INSTALLATION GUIDELINES



All Telescoping Mast kits include guys, connection hardware, anchors and ground mount. Mast must be ordered separately.

Products (LC

Ground Mount

GTMBL

1

Ground Mount

GTMBL

1

## INSTALLATION GUIDELINES

### All Telescoping Mast kits include guys, connection hardware, anchors and ground mount. Mast must be ordered separately.



## INSTALLATION GUIDELINES

1. Installation or dismantling of telescoping masts require professional contractors experienced with guyed masts.

- 2. All installations must be bracketed or guyed.
- 3. The pictured guy layouts are for a typical installation. Individual installation requirements may vary.

4. Antenna load (top load) should not exceed an effective projected area (EPA) of 2 square feet (see your antenna specifications).



- TELESCOPING MASTS-

## **PARTS & ACCESSORIES**

UNIVERSAL RIDGE MOUNTCompletely assembled for quick and easy flat or peaked roof installation. Allows tall masts to be swung up along the ridge of a roof.Part No.DescriptionUM20Holds masts to 1 1/2" O.D.UM30Holds masts to 1 3/4" O.D.UM40Holds masts to 2" O.D.UM50Holds masts to 2 1/4" O.D.	GROUND MOUNT   Sturdy, galvanized, drive-in type   mount for all ROHN telescoping   masts, 1 1/4" tubing and 1 1/2"   tubing.	UNIVERSAL ROOF MOUNT   Features galvanized finish   and heavy duty steel throughout.   Completely assembled. Holds all   ROHN telescoping masts, 1 1/4"   tubing and 1 1/2" tubing.   Part No. Description   ETMB Universal Mount
Roof mounting hardware not included.		Roof mounting hardware not included.
	© ff	
GALVANIZED GUYSNon-tangling interconnectedcoils. Packaged 1000' per box.Part No.Description6186 strand, 18 GA	SCREW ANCHORSHot-dip galvanized screw anchor.Part No.DescriptionGAS43031/2" dia.x 30" long with 4" augerGAS6045/8" dia.x 48" long with 6" auger	GUY CONNECTIONS Use for easy installation of 6 strand, 18 GA guys. Part No. Description 61820GRPL Gripple Grip Not to be used to suspend or lift personnel.

Refer to page 251 for roof mounts. Refer to page 275 for wall mounts.



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# ROOF MOUNTS





ROHN recommends a minimum 75 mph Effective Wind Velocity be used for determining ballast requirements. Refer to page 270 for ballast requirements and general notes.

# $V_e = (C1) (C2) (V)$

- $V_e$  = Effective Wind Velocity at centerline of antenna for calculating required ballast.
- C1 = Importance factor coefficient from Table 1.

-ROOF MOUNTS-

- C2 = Combined exposure and gust effect factor coefficient from Table 2.
- V = Design ground wind speed for location, per ANSI/TIA-222-G.

	Table 1: Values of C1	Roof H	leight
Class	Description for installing considering height, use or location	<u>≤</u> 60 ft.	> 60 ft.
1	Low hazard to human life and/or damage to property, optional services provided.	1.29	0.93
II	Significant hazard to human life and/or damage to property, services available by other means.	1.38	1.00
III	Substantial hazard to human life and/or damage to property, essential services provided.	1.48	1.07

Exposure	Description of Surrounding Terrain		Table 2: V	alues of C2				
	Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced	A t	Exposure					
В	obstructions having the size of single-family	Antenna Centerline	В	С	D			
С	dwellings or larger. Open terrain with scattered obstructions having heights generally less than 30' [9.1m], including	Elevation Above Ground Level (ft.)	Urban or Wooded Areas	Open Country & Grasslands	Open Water or Smooth Terrain			
	flat, open country and grasslands.	0-15	0.82	0.90	0.99			
	Flat, unobstructed shorelines exposed to wind	20	0.82	0.92	1.01			
	flowing over open water, smooth mud flats, salt flats, and other similar terrain.	25	0.82	0.95	1.04			
		30	0.82	0.96	1.05			
		40	0.85	0.99	1.08			
Example	e: 30' antenna elevation, 90 mph design ground	50	0.88	1.02	1.10			
	wind speed, Class I, Exposure B	60	0.90	1.04	1.12			
	V <sub>e</sub> = (1.29) (0.82) (90) = 95 mph	70	0.92	1.05	1.13			
	The minimum Effective Wind Velocity for	80	0.94	1.07	1.14			
	determining ballast requirements for this example would be 95 mph.	90	0.95	1.09	1.16			
		100	0.97	1.10	1.17			
		120	0.99	1.12	1.19			
This data she	eet is provided to assist consumers in determining	140	1.02	1.14	1.20			
	n Effective Wind Velocity to be used for determining	160	1.04	1.15	1.21			
•	rements from a ROHN Non-Penetrating Roof Mount Higher velocities may be required for sites located	180	1.05	1.17	1.23			
	pments or ridges (refer to ANSI/TIA-222-G). Potential	200	1.07	1.18	1.24			
	wind velocity due to channeling, roof projections	250	1.10	1.21	1.26			
	structions must also be considered. The information	300	1.13	1.23	1.28			
	d not be relied upon without competent professional	350	1.16	1.25	1.30			
	and verification of its accuracy and suitability for a or application.	400	1.18	1.27	1.31			
		450	1.20	1.29	1.33			



1.22

1.30

1.34

500



# **FRM** NON-PENETRATING

The FRM mount is a lightweight mount and is galvanized for corrosion protection. The FRM mount is easily shipped via UPS.



	MAS	<b>SPECIFICATIONS</b>
Mount Part No.	Mast Part No.	Mast Description & Height
FRM125	FY202	1.25" O.D. x 16 GA. x 5.0' (PG)
FRM150	FY203	1.50″ O.D. x 16 GA. x 2.5′ (PG)
FRM166	FY204	1.66" O.D. x 16 GA. x 2.5' (PG)
FRM238	FY205	2.38" O.D. x 0.154" wall x 2.5' (HDG)
FRM225	FY205SP	2.25" O.D. x 14 GA. x 5.0' (HDG)
FRM238SP5	FY253	2.38" O.D. x 0.154" wall x 5.0' (HDG)

PG = Pre-galvanized mast HDG = Hot-dip galvanized mast

#### FRM BALLAST REQUIREMENTS

			-			-				
Effective Projected			Vs	Vmax at centroid of projected area, (MPH)						
Area (EPA) (FT <sup>2</sup> )	(LBS)	Load (PSF)	(MPH)	h=2 FT	h=3 FT	h=4 FT	h=5 FT			
	100	12	140	135	110	96	85			
2	200	24	198	188	153	133	119			
<b>∠</b>	300	36	242	222	182	157 (154)	141 (131)			
	400	48	280	269	219 (197)	190 (154)	170 (131)			
	100	12	99	96	78	68	60			
4	200	24	140	133	108	94	84			
4	300	36	171	157	129	111	99 (93)			
	400	48	198	190	155 (139)	134(109)	120 (93)			
	100	12	81	78	64	55	49			
6	200	24	114	108	88	77	68			
0	300	36	140	128	105	91 (89)	81 (76)			
	400	48	161	155	127 (114)	110 (89)	98 (76)			
	-00				127 (114)		20 (70)			

**h** = Distance from support surface to centroid of EPA.

**Vs** = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

Vmax = Effective wind velocity based on strength or overturning.

NOTE: The velocities in () apply to the FRM125 mount when the strength of the FRM125 mast governs.



-ROOF MOUNTS - JRM ------

# JRM NON-PENETRATING

The JRM ships broken down on one skid and weighs approximately 50 lbs. when assembled. The JRM is galvanized for corrosion protection. The JRM is used in cellular, PCS, broadband and other applications.



#### MAST SPECIFICATIONS

Mount Part No.	Mast Part No.	Mast Description & Height
JRM23805	FZ1755	2.38" O.D. x 0.154" wall x 5.0' (HDG) (1 piece)
JRM23855	FZ1753/FZ1754	2.38" O.D. x 0.154" wall x 10.0' (HDG) (2 pieces)
JRM23810	FZ1756	2.38" O.D. x 0.154" wall x 10.0' (HDG) (1 piece)
JRM27505	FZ1757	2.88" O.D. x 0.203" wall x 5.0' (HDG) (1 piece)
JRM27555	FZ1758/FZ1759	2.88" O.D. x 0.203" wall x 10.0' (HDG) (2 pieces)
JRM27510	FZ1760	2.88" O.D. x 0.203" wall x 10.0' (HDG) (1 piece)
JRM35010	FZ1761	3.50" O.D. x 0.216" wall x 10.0' (HDG) (1 piece)



-ROOF MOUNTS - JRM-(RM

	JRM
BALLAST	REQUIREMENTS

Effective Projected Area (EPA)	Ballast (LBS)	Zero Velocity Load	Vs (MPH)	/s Vmax at centroid of projected area, (MPH) PH)							
(FT <sup>2</sup> )		(PSF)	(1411-17)	h=2 FT	h=3 FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
4	250	10.0	110	129	105	91	82	75	69	65	61
	350	14.0	131	153	125	108	97	88	82	76	72
	450	18.0	148	173	141	122	110	100	93	87	82
	550	22.0	164	191	156	135	121	111	102	96	90
	650	26.0	178	208	170	147	132	120	111	104	98
	750	30.0	191	224	183	158	141	129	120	112	105
	850	34.0	204	238	194	168	151	137	127	119	112
	950	38.0	215	252	205	178	159	145	135	126	119
	1050	42.0	226	265	216	187	167	153	141	132	125
	1150	46.0	237	277	226	196	175	160	148	138	131
	1250	50.0	247	289	236	204	183	167	154	144	136
5	250	10.0	99	115	94	82	73	67	62	58	54
	350	14.0	117	137	112	97	86	79	73	68	64
	450	18.0	133	155	126	110	98	89	83	77	73
	550	22.0	147	171	140	121	108	90	92	86	81
	650	26.0	159	186	152	132	118	107	100	93	88
	750	30.0	171	200	163	141	126	115	107	100	94
	850	34.0	182	213	174	151	135	123	114	106	100
	950	38.0	193	225	184	159	142	130	120	113	106
	1050	42.0	203	237	193	167	150	137	126	118	112
	1150	46.0	212	248	202	175	157	143	132	124	117
	1250	50.0	221	258	211	183	163	149	138	129	122
6	250	10.0	90	105	86	75	67	61	56	53	50
	350	14.0	107	125	102	88	79	72	67	62	59
	450	18.0	121	141	115	100	89	82	76	71	67
	550	22.0	134	156	128	111	99	90	84	78	74
	650	26.0	145	170	139	120	107	98	91	85	80
	750	30.0	156	183	149	129	115	105	98	91	86
	850	34.0	166	194	159	137	123	112	104	97	92
	950	38.0	176	205	168	145	130	119	110	103	97
	1050	42.0	185	216	176	153	137	125	115	108	102
	1150	46.0	193	226	185	160	143	131	121	113	107
	1250	50.0	202	236	192	167	149	136	126	118	111
7	250	10.0	84	98	80	69	62	56	52	49	46
	350	14.0	99	115	94	82	73	67	62	58	54
	450	18.0	112	131	107	93	83	76	70	65	62
	550	22.0	124	145	118	102	92	84	77	72	68
	650	26.0	135	157	128	111	100	91	84	79	74
	750	30.0	145	169	138	120	107	98	90	85	80
	850	34.0	154	180	147	127	114	104	96	90	85
	950	38.0	163	190	155	135	120	110	102	95	90
	1050	42.0	171	200	163	141	126	115	107	100	94
	1150	46.0	179	209	171	148	132	121	112	105	99
	1250	50.0	187	218	178	154	138	126	117	109	103
8	250	10.0	78	91	75	65	58	53	49	46	43
	350	14.0	92	108	88	76	68	62	58	54	51
	450	18.0	105	122	100	87	77	71	65	61	58
	550	22.0	116	135	111	96	86	78	72	68	64
	650	26.0	126	147	120	104	93	85	79	74	69
	750	30.0	135	158	129	112	100	91	85	79	75
	850	34.0	144	168	137	119	106	97	90	84	79
	950	38.0	152	178	145	126	113	103	95	89	84
	1050	42.0	160	187	153	132	118	108	100	94	88
	1150	46.0	168	196	160	138	124	113	105	98	92
	1250	50.0	175	204	167	144	129	118	109	102	96
10	250	10.0	70	82	67	58	52	47	44	41	38
	350	14.0	83	97	79	68	61	56	52	48	46
	450	18.0	94	110	89	77	69	63	59	55	52
	550	22.0	104	121	99	86	77	70	65	61	57
	650	26.0	113	132	107	93	83	76	70	66	62
	750	30.0	121	141	115	100	89	82	76	71	67
	850	34.0	129	151	123	106	95	87	80	75	71
	950	38.0	136	159	130	113	101	92	85	80	75
	1050	42.0	143	167	137	118	106	97	89	84	79
	1150	46.0	150	175	143	124	111	101	94	88	83
	1250	50.0	156	183	149	129	115	105	98	91	86
Distance from support surface to centroid of on strength or overturning. DA											

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# RM-ROOF MOUNTS - JRM -

				<u>. A S I</u>	ΚE	QUI			<u> </u>		
Effective Projected	Ballast	Zero Velocity	Vs			Vmax at ce	entroid of p	projected a	rea, (MPH)		
Area (EPA) (FT <sup>2</sup> )	(LBS)	Load (PSF)	(MPH)	h=2 FT	h=3 FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
12	250 350 450 550 650 750 850 950 1050 1150 1250	10.0 14.0 18.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0	64 75 86 95 103 110 118 124 131 137 143	75 88 100 111 120 129 137 145 153 160 167	61 72 82 90 98 105 112 119 125 131 136	53 62 71 78 85 91 97 103 108 113 118	47 56 63 70 76 82 87 92 97 101 105	43 51 58 64 69 75 79 84 88 92 96	40 47 53 59 64 69 73 78 82 85 89	37 44 50 55 60 65 69 73 76 80 83	35 42 47 52 57 61 65 68 72 75 79
14	250 350 450 550 650 750 850 950 1050 1150 1250	10.0 14.0 18.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0	59 70 79 88 95 102 109 115 121 127 132	69 82 93 102 111 120 127 135 141 148 154	56 67 76 84 91 98 104 110 115 121 126	49 58 65 72 79 85 90 95 100 105 109	44 52 59 65 70 76 80 85 89 94 98	40 47 53 64 69 73 78 82 85 89	37 44 49 55 59 64 68 72 76 79 82	35 41 46 51 56 60 64 67 71 74 77	33 38 44 48 52 56 60 63 67 70 73
16	250 350 450 550 650 750 850 950 1050 1150 1250	10.0 14.0 18.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0	55 65 74 82 89 96 102 108 113 118 124	65 76 87 96 104 112 119 126 132 138 144	53 62 71 78 85 91 97 103 108 113 118	46 54 61 68 74 79 84 89 94 98 102	41 48 55 61 66 71 75 80 84 88 91	37 44 50 55 60 65 69 73 76 80 83	35 41 46 51 56 60 64 67 71 74 77	32 38 43 48 52 56 60 63 66 69 72	30 36 41 45 49 53 56 59 62 65 68
18	250 350 450 550 650 750 850 950 1050 1150 1250	10.0 14.0 18.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0	52 62 70 77 84 90 96 102 107 112 116	61 72 82 90 98 105 112 119 125 131 136	50 59 67 74 80 86 92 97 102 107 111	43 51 58 64 69 75 79 84 88 92 96	38 46 52 57 62 67 71 75 79 83 86	35 42 47 52 57 61 65 68 72 75 79	33 38 44 48 52 56 60 63 67 70 73	30 36 41 45 49 53 56 59 62 65 68	29 34 38 43 46 50 53 56 59 62 64
20	250 350 450 550 650 750 850 950 1050 1150 1250	10.0 14.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0	49 58 66 73 80 86 91 96 101 106 110	58 68 77 86 93 100 106 113 118 124 129	47 56 63 70 76 82 87 92 97 101 105	41 48 55 61 66 71 75 80 84 88 91	37 43 49 54 59 63 67 71 75 78 82	33 39 45 49 54 58 61 65 68 71 75	31 37 41 46 50 53 57 60 63 66 69	29 34 39 43 47 50 53 56 59 62 65	27 32 37 40 44 47 50 53 56 58 61
22	250 350 450 550 650 750 850 950 1050 1150 1250	10.0 14.0 18.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0	47 56 63 70 76 82 87 92 97 101 105	55 65 74 82 89 95 102 107 113 118 123 tive wind	45 53 60 67 72 78 83 88 92 96 101	39 46 52 58 63 67 72 76 80 83 83 87	35 41 47 52 56 60 64 68 71 75 78	32 38 43 51 55 59 62 65 68 71	29 35 39 44 47 51 54 57 60 63 66	28 33 37 41 44 48 51 54 56 59 62	26 31 35 38 42 45 48 51 53 56 58 tring in s

# JRM BALLAST REQUIREMENTS

h = Distance from support surface to centroid of EPA.

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 Vmax = Effective wind velocity based on strength or overturning.
 Vs = Effective a flat surf

 NOTE: Mast strength may govern antenna capacity.

Vs = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

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- ROOF MOUNTS - BRM4 - RI

## **BRM4** NON-PENETRATING

The BRM4 mount is hot-dip galvanized after fabrication for corrosion protection.

Order (1) optional BRM4MAT (1/8" thick) or (1) optional BRM4PAD (3/8" thick) for a protective barrier between the mount and the roof. Order (1) optional SCK150 safety cable kit (3/16" x 150').

Refer to pages 258-259 for ballast requirements.



#### MAST SPECIFICATIONS

Mount Part No.	Mast Part No.	Mast Description & Height
BRM425	KY1590	2.38" O.D. x 0.154" wall x 3.0'
BRM430	KY1592	2.88" O.D. x 0.203" wall x 3.0'
BRM435	KY1594	3.50" O.D. x 0.216" wall x 3.0'
BRM440	KY1596	4.00" O.D. x 0.226" wall x 3.0'
BRM445	KY1598	4.50" O.D. x 0.237" wall x 3.0'
BRM455	KY1600	5.56" O.D. x 0.258" wall x 3.0'
BRM42510	KY2061	2.38" O.D. x 0.154" wall x 10.0'
BRM43510	KY2063	3.50" O.D. x 0.216" wall x 10.0'
BRM44510	KY2065	4.50" O.D. x 0.237" wall x 10.0'



# -ROOF MOUNTS - BRM4-

BALLAST REQUIREMENT		BRM4
	BALLAST	REQUIREMENTS

Effective		Zero		AJI							
Projected Area (EPA)	Ballast (LBS)	Velocity Load	Vs (MPH)			Vmax at ce	entroid of p	projected a	rea, (MPH)		
(FT <sup>2</sup> )	(200)	(PSF)	. ,	h=2 FT	h=3 FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
2	300 500 700 900 1100 1300 1500 1700 1900 2100 2300	7.1 11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7 54.4	171 221 261 296 328 356 383 407 431 453 474	242 313 370 416 448 478 506 533 558 583 583 604	198 256 302 340 366 391 414 435 456 476 493	171 221 262 294 317 338 358 377 395 412 427	153 198 234 263 284 302 320 337 353 369 382	140 181 214 259 276 292 308 322 336 349	130 167 198 223 240 256 271 285 299 312 323	121 157 185 208 224 239 253 267 279 291 302	114 148 175 196 211 225 239 251 263 275 285
4	300 500 700 900 1100 1300 1500 1700 1900 2100 2300	7.1 11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7 54.4	121 156 185 210 232 252 271 288 305 320 335	171 221 262 294 317 328 358 377 395 412 427	140 181 214 259 276 292 308 322 336 349	121 157 185 208 224 239 253 267 279 291 302	108 140 166 201 214 226 238 250 261 270	99 128 151 170 183 195 207 218 228 238 238 247	92 118 140 157 169 181 191 201 211 220 228	86 111 131 147 159 169 179 188 197 206 213	81 104 123 139 149 159 169 178 186 194 201
6	300 500 700 900 1100 1300 1500 1700 1900 2100 2300	7.1 11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7 54.4	99 128 151 171 189 206 221 235 249 261 274	140 181 214 240 259 276 292 308 322 336 349	114 148 175 196 211 225 239 251 263 275 285	99 128 151 170 183 195 207 218 228 238 238 247	89 114 135 152 164 175 185 195 204 213 220	81 104 123 139 149 159 169 178 186 194 201	75 97 114 128 138 148 156 165 172 180 186	70 90 107 120 129 138 146 154 161 168 174	66 85 101 113 122 130 138 145 152 159 164
8	300 500 700 900 1100 1300 1500 1700 1900 2100 2300	7.1 11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7 54.4	86 110 131 148 164 178 191 204 215 226 237	121 157 185 208 224 239 253 267 279 291 302	99 128 151 170 183 195 207 218 228 238 238 247	86 111 131 147 159 169 179 188 197 206 213	77 99 117 132 142 151 160 169 177 184 191	70 90 107 120 129 138 146 154 161 168 174	65 84 99 111 120 128 135 142 149 156 161	61 78 93 104 112 120 127 133 140 146 151	57 74 87 98 106 113 119 126 132 137 142
10	300 500 700 900 1100 1300 1500 1700 1900 2100 2300	7.1 11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7 54.4	77 99 117 133 147 159 171 182 193 203 212	108 140 166 201 214 226 238 250 261 270	89 114 135 152 164 175 185 195 204 213 220	77 99 117 132 142 151 160 169 177 184 191	69 89 105 118 127 135 143 151 158 165 171	63 81 96 107 116 123 131 138 144 150 156	58 75 89 100 107 114 121 127 134 139 144	54 70 83 93 100 107 113 119 125 130 135	51 66 78 88 95 101 107 112 118 123 127
12 nce from ce to cen	300 500 700 900 1100 1300 1500 1700 1900 2100 2300	7.1 11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7 54.4	70 90 107 121 134 145 156 166 176 185 193 <b>Y = Effec</b>	99 128 151 170 183 195 207 218 228 238 247 tive wind	81 104 123 139 149 159 169 178 186 194 201	70 90 107 120 138 146 154 161 168 174	63 81 96 107 116 123 131 138 144 150 156	57 74 87 98 106 113 119 126 132 137 142	53 68 81 91 98 104 111 116 122 127 132 wind velo	49 64 76 85 92 98 103 109 114 119 123	47 60 71 80 92 97 103 107 112 116 Iting in s

h = Distance from support surface to centroid of EPA.

Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

**NOTE:** Mast strength may govern antenna capacity.

Products LLC

- ROOF MOUNTS - BRM4-(RN

Hereicher, Hereicher, Hereic		[	<u> </u>	_ A S 1	RE	<u>QUII</u>	<u>R E M</u>	<u>E N T</u>	S		
eff (FFA)         (LBS)		Zero Velocity									
14         500 900         11.6 2.0         99 140         114 130         99 2.0         65 2.0         63 7.0         90 7.4         64 7.0         75 7.4         68 7.0         75 8.4         79 7.4         65 7.4           14         100         91         84         79         66 7.4         100         91         84         79         74           1300         30.8         135         181         144         123         114         104         97         90         89         90         80	Area (EPA) (LBS)	Load	(MPH)	h=2 FT	h=3 FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
500         11.8         78         11.1         90         78         70         64         59         55         52           900         21.3         105         147         120         104         93         85         79         65         52         62           900         21.3         105         147         120         104         93         85         79         74         69           1300         30.8         126         169         138         120         107         98         90         85         80           1700         40.2         144         188         154         133         119         101         94         89           2100         49.7         166         206         168         146         130         119         103         97         146         130         119         103         97         146         130         119         103         98         88         80         74         66         60         56         52         48           700         16.6         87         13         113         101         92         88         80         75	500 700 900 1100 1300 1500 1700 1900 2100	11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7	84 99 112 124 135 145 154 163 171	118 140 157 169 181 191 201 211 220	97 114 128 138 148 156 165 172 180	84 99 111 120 128 135 142 149 156	75 89 100 107 114 121 127 134 139	68 81 91 98 104 111 116 122 127	63 75 84 91 97 102 108 113 118	59 70 79 85 90 96 101 106 110	56 66 74 80 85 90 95 100 104
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	16 500 700 900 1100 1300 1500 1700 1900 2100	11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7	78 92 105 116 126 135 144 152 160	111 131 147 159 169 179 188 197 206	90 107 120 129 138 146 154 161 168	78 93 104 112 120 127 133 140 146	70 83 93 100 107 113 119 125 130	64 76 85 92 98 103 109 114 119	59 70 79 85 90 96 101 106 110	55 65 74 79 85 90 94 99 103	52 62 69 75 80 84 89 93 97
$ 20 \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	18 500 700 900 1100 1300 1500 1700 1900 2100	11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7	74 87 99 109 119 128 136 144 151	104 123 139 149 159 169 178 186 194	85 101 113 122 130 138 145 152 159	74 87 98 106 113 119 126 132 137	66 78 88 95 101 107 112 118 123	60 71 80 86 92 97 103 107 112	56 66 74 80 85 90 95 100 104	52 62 69 75 80 84 89 93 97	49 58 65 70 75 80 84 88 92
22 $\int_{100}^{500} 11.8$ $\int_{11}^{67} 94$ $\int_{11}^{77} 67$ $\int_{10}^{67} 60$ $\int_{100}^{54} 0$ $\int_{100}^{50} 47$ $\int_{100}^{44} 44$ $\int_{100}^{700} 16.6$ $\int_{100}^{79} 112$ $\int_{100}^{91} 79$ $\int_{11}^{79} 64$ $\int_{100}^{64} 60$ $\int_{100}^{56} 53$ $\int_{100}^{900} 21.3$ $gggggggggggggggggggggggggggggggggggg$	20 500 700 900 1100 1300 1500 1700 1900 2100	11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7	70 83 94 104 113 121 129 136 143	99 117 132 142 151 160 169 177 184	81 96 107 116 123 131 138 144 150	70 83 93 100 107 113 119 125 130	63 74 83 90 96 101 107 112 117	57 68 76 82 87 92 97 102 106	53 63 70 76 81 86 90 94 99	49 59 66 71 76 80 84 88 92	47 55 62 67 71 75 79 83 87
24	22 500 700 900 1100 1300 1500 1700 1900 2100	11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7	67 79 89 107 115 123 130 137	94 112 126 135 144 153 161 168 176	77 91 102 110 118 125 131 137 143	67 79 89 96 102 108 114 119 124	60 71 79 86 91 97 102 106 111	54 64 72 78 83 88 93 97 101	50 60 67 72 77 82 86 90 94	47 56 63 68 72 76 80 84 88	44 53 59 64 68 72 76 79 83
	24 500 700 900 1100 1300 1500 1700 1900 2100	11.8 16.6 21.3 26.0 30.8 35.5 40.2 45.0 49.7	64 75 86 95 103 110 118 124 131	90 107 120 129 138 146 154 161 168	74 87 98 106 113 119 126 132 137	64 76 85 92 98 103 109 114 119	57 68 76 82 87 92 97 102 106 110	52 69 75 80 84 89 93 97 101	48 57 64 69 74 78 82 86 90 93	45 53 60 65 69 73 77 81 84 87	43 50 57 61 65 69 73 76 79 82
<b>NOTE:</b> Mast strength may govern antenna capacity.	nce from suppor ce to centroid of	t Vm	ons	strength	or overtu	irning.	i	a flat surf	face with		

## BRM4 RALLAST REOLLIREMENTS

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# **BRM6** NON-PENETRATING

The BRM6 mount is hot-dip galvanized after fabrication for corrosion protection.

Order (1) optional BRM6MAT (1/8" thick) or (1) optional BRM6PAD (3/8" thick) for a protective barrier between the mount and the roof. Order (1) optional SCK150 safety cable kit (3/16" x 150').

Optional additional inner ballast support angle kit available, order P/N BRM6ABK.

Refer to pages 261-263 for ballast requirements.



#### MAST SPECIFICATIONS

Mount Part No.	Mast Part No.	Mast Description & Height
BRM630M	KY2110	2.88" O.D. x 0.203" wall x 4.0'
BRM635M	KY1570	3.50" O.D. x 0.216" wall x 4.0'
BRM640M	KY1578	4.00" O.D. x 0.226" wall x 4.0'
BRM645M	KY1579	4.50" O.D. x 0.237" wall x 4.0'
BRM655M	KY1580	5.56" O.D. x 0.258" wall x 4.0'
BRM665M	KY1581	6.63" O.D. x 0.280" wall x 4.0'
BRM64510M	KY2043	4.50" O.D. x 0.237" wall x 10.0'



Dish	Ballast	Zero Velocity		Des	ign Win (Ml	d Veloo PH)	cities	
Diameter	(LBS)	Load (PSF)	EL:	=0°	EL=	20°	EL=40°	
		(PSF)	Vmax	Vs	Vmax	Vs	Vmax	Vs
	500	5.0	87	67	103	75	112	92
	750	7.5	107	82	131	92	142	113
4′	1000	10.0	125	95	154	107	167	131
	1250	12.5	139	106	169	119	189	146
(1.2 m)	1500	15.0	148	117	180	131	203	160
	1750	17.5	157	126	190	141	211	173
	2000	20.0	165	135	196	151	211	185
	500	5.0	58	45	65	50	69	61
	750	7.5	71	55	83	61	89	75
	1000	10.0	83	63	99	71	106	87
6′	1250	12.5	93	71	112	79	120	97
(1.8 m)	1500	15.0	99	78	120	87	129	107
(1.011)	1750	17.5	105	84	127	94	137	115
	2000	20.0	110	90	130	101	141	123
	2250	22.5	115	95	130	107	141	131
	2500	25.0	120	100	130	113	141	138
	2750	27.5	125	105	130	118	141	141
	3000	30.0	127	110	130	123	141	141
	750	7.5	53	41	57	46	60	56
	1000	10.0	62	47	69	53	73	65
	1250	12.5	69	53	79	59	84	73
8′	1500	15.0	74	58	85	65	90	80
_	1750	17.5	78	63	91	70	96	86
(2.4 m)	2000	20.0	82	67	97	75	102	92
	2250	22.5	86	71	98	80	103	98
	2500	25.0	90	75	98	84	103	103
	2750	27.5	94	79	98	88	103	103
	3000	30.0	95	82	98	92	103	103

#### **BRM6** 4 FT. DISH ELEVATION BALLAST REQUIREMENTS

**EL** = Dish antenna azimuth angle with horizontal.

Vmax = Effective wind velocity based on strength or overturning.

Vs = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

**NOTE:** Mast strength may govern antenna capacity.



# ROOF MOUNTS - BRM6-

· · · · ·				חוכ		INL		13		
Effective Projected Area (EPA)	Ballast (LBS)	Zero Velocity Load	Vs (MPH)		Vm	ax at centro	oid of projec	cted area, (N	ИРН)	
(FT <sup>2</sup> )	(200)	(PSF)	. ,	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
10	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	99 121 140 156 171 185 198 210 221 232 242	128 156 180 202 218 230 242 254 265 275 280	114 140 161 180 195 206 217 227 237 246 250	104 128 147 165 178 188 198 207 216 225 228	96 118 136 152 165 174 183 192 200 208 211	90 110 128 143 154 163 171 179 187 195 198	85 104 120 134 145 154 162 169 176 183 186	81 99 114 128 138 146 153 160 167 174 177
15	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	81 99 114 128 140 151 161 171 180 189 198	104 128 147 165 178 188 198 207 216 225 228	93 114 132 147 159 168 177 185 193 201 204	85 104 120 134 145 154 162 169 176 183 186	79 96 111 125 134 142 150 157 163 170 173	74 90 104 116 126 133 140 147 153 159 161	69 85 98 110 119 125 132 138 144 150 152	66 81 93 104 113 125 131 137 142 144
20	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	70 86 99 110 121 131 140 148 156 164 171	90 110 128 143 154 163 171 179 187 195 198	81 99 114 128 138 146 153 160 167 174 177	74 90 104 116 126 133 140 147 153 159 161	68 84 96 108 116 123 130 136 141 147 149	64 78 90 101 109 115 121 127 132 138 140	60 74 85 95 103 109 114 120 125 130 132	57 70 81 90 97 103 108 113 118 123 125
25	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	63 77 88 99 108 117 125 133 140 147 153	81 99 114 128 138 146 153 160 167 174 177	72 88 102 114 123 130 137 144 150 156 158	66 81 93 104 113 119 125 131 137 142 144	61 75 86 96 104 110 116 121 127 132 134	57 70 81 90 97 103 108 113 118 123 125	54 66 76 85 92 97 102 107 112 116 118	51 63 72 81 87 92 97 101 106 110 112
30	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	57 70 81 90 99 107 114 121 128 134 140	74 90 104 116 126 133 140 147 153 159 161	66 81 93 104 113 119 125 131 137 142 144	60 74 85 95 103 109 114 120 125 130 132	56 68 79 88 95 101 106 111 115 120 122	52 64 74 82 89 94 99 104 108 112 114	49 60 69 78 84 89 93 98 102 106 108	47 57 66 74 80 84 89 93 97 100 102
35 nna angle	500 750 1000 1250 1500 1750 2000 2250 2500 2500 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	53 65 75 84 91 99 106 112 118 124 129 = Effecti	68 84 96 108 116 123 130 136 141 147 149	61 75 86 96 104 110 116 121 127 132 134	56 68 79 88 95 101 106 111 115 120 122	52 63 73 82 88 93 98 103 107 111 113	48 59 68 76 82 87 92 96 100 104 106	45 56 64 72 78 82 86 90 94 98 100	43 53 61 68 74 78 82 86 89 93 94 94 ty resulti

# BRM6 BALLAST REQUIREMENTS

EL = Dish antenr horizontal. y

Products LLC

on strength or overturning.

ng in sliding on a flat surface with a .50 coefficient of friction. **NOTE:** Mast strength may govern antenna capacity.

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-ROOF MOUNTS - BRM6 - RM

	BRM6
BALLAST	REQUIREMENTS

Effective Projected Area (EPA)	Ballast (LBS)	Zero Velocity Load	Vs (MPH)		Vm	ax at centro	id of projec	cted area, (N	(IPH)	
(FT <sup>2</sup> )	(200)	(PSF)		h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
40	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	49 61 70 78 86 92 99 105 110 116 121	64 78 90 101 109 115 121 127 132 138 140	57 70 81 90 97 103 108 113 118 123 125	52 64 74 82 89 94 99 104 108 112 114	48 59 68 76 82 87 92 96 100 104 106	45 55 64 71 77 81 86 90 94 97 99	43 52 60 67 73 77 81 85 88 92 93	40 49 57 64 69 73 77 80 84 87 88
45	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	47 57 66 74 81 87 93 99 104 109 114	60 74 85 95 103 109 114 120 125 130 132	54 66 76 85 92 97 102 107 112 116 118	49 60 69 78 84 89 93 98 102 106 108	45 56 64 72 78 82 86 90 94 98 100	43 52 60 67 73 77 81 85 88 92 93	40 49 57 63 68 72 76 80 83 83 86 88	38 47 54 60 65 69 72 76 79 82 83
50	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	44 54 63 70 77 83 88 94 99 104 108	57 70 81 90 97 103 108 113 118 123 125	51 63 72 81 87 92 97 101 106 110 112	47 57 66 74 80 84 89 93 97 100 102	43 53 61 68 74 78 82 86 89 93 94	40 49 57 64 69 73 77 80 84 87 88	38 47 54 60 65 69 72 76 79 82 83	36 44 51 57 62 65 69 72 75 78 79

**EL** = Dish antenna angle with horizontal.

**Vmax** = Effective wind velocity based on strength or overturning.

**Vs** = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

**NOTE:** Mast strength may govern antenna capacity.





# **NPPK** NON-PENETRATING

The NPPK mount is a great solution for broadband antennas and satellite TV dishes. The adjustable mounting plate can be center mounted or to one side as needed to accommodate other satellite TV dish mounts. Our 1LG mount (located on page 274) with a base and 1-1/4" mounting tube can be attached to the NPPK. The mount comes standard with double ballast trays on each side to hold concrete blocks. The NPPK mount is hot-dip galvanized after fabrication for corrosion protection.

Order (2) optional FRMMAT (1/8" thick) or (2) optional FRMPAD (3/8" thick) for a protective barrier between the mount and the roof. Order (1) optional SCK150 safety cable kit (3/16" x 150').





# **25GBRM** NON-PENETRATING

The 25GBRM mount is designed to support one or two 25G tower sections in a self-supporting application. The 25GBRM mount is galvanized after fabrication for corrosion protection.

Order (1) optional BRM6MAT (1/8" thick) or (1) optional BRM6PAD (3/8" thick) for a protective barrier between the mount and the roof. Order (1) optional SCK150 safety cable kit (3/16" x 150').

Refer to page 266 for ballast requirements.





# **25GBRM** BALLAST REQUIREMENTS

Effective Projected	Ballast	Zero Velocity	Vs One Section	Vs Two Sections		entroid of area, (MPH)
Areá (EPA)	(LBS)	Load	(MPH)	(MPH)	1 Section	2 Sections
(FT <sup>2</sup> )		(PSF)	h=12.4 FT	h=22.4 FT	h=12.4 FT	h=22.4 FT
2	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	131 160 185 207 227 245 250 250 250 250 250 250	96 117 135 151 165 179 191 203 214 224 224 234	111 136 157 176 190 201 211 221 231 240 244	65 80 92 103 111 118 124 130 135 140 143
4	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	113 138 159 178 195 211 225 239 250 250 250	88 107 124 139 152 164 175 186 196 206 215	92 112 130 145 157 166 174 182 190 198 201	57 70 81 98 104 109 114 119 124 126
6	500	5.0	100	82	80	52
	750	7.5	123	100	98	63
	1000	10.0	142	115	113	73
	1250	12.5	159	129	126	82
	1500	15.0	174	141	136	88
	1750	17.5	188	152	144	94
	2000	20.0	201	163	152	98
	2250	22.5	213	173	159	103
	2500	25.0	224	182	166	107
	2750	27.5	235	191	172	112
	3000	30.0	246	200	175	113
8	500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0	91 112 129 144 158 171 183 194 204 214 214 224	76 94 108 121 132 143 153 162 171 179 187	72 88 101 113 122 129 136 142 149 154 157	48 58 67 75 81 86 90 95 99 103 104
10	500	5.0	84	72	66	44
	750	7.5	103	89	80	54
	1000	10.0	119	102	93	63
	1250	12.5	133	114	104	70
	1500	15.0	146	125	112	76
	1750	17.5	158	135	118	80
	2000	20.0	169	145	124	84
	2250	22.5	179	153	130	88
	2500	25.0	189	162	136	92
	2750	27.5	198	169	141	95
	3000	30.0	207	177	144	97
12	500	5.0	79	69	61	42
	750	7.5	97	84	74	51
	1000	10.0	112	97	86	59
	1250	12.5	125	109	96	66
	1500	15.0	137	119	104	71
	1750	17.5	148	128	110	75
	2000	20.0	158	137	115	79
	2250	22.5	167	146	121	83
	2500	25.0	176	154	126	86
	2750	27.5	185	161	131	90
	3000	30.0	193	168	133	91

Effective Projected	Ballast	Zero Velocity	Vs One	Vs Two		entroid of area, (MPH)
Area (EPA) (FT <sup>2</sup> )	(LBS)	Load (PSF)	Section (MPH) h=12.4 FT	Sections (MPH) h=22.4 FT	1 Section h=12.4 FT	2 Sections h=22.4 FT
	500	5.0	74	66	57	39
	750	7.5	91	80	70	48
	1000	10.0	105	93	80	56
	1250	12.5	117	104	90	62
	1500	15.0	129	114	97	67
14	1750	17.5	139	123	103	71
	2000	20.0	149	131	108	75
	2250	22.5	158	139	113	78
	2500	25.0	166	147	118	81
	2750	27.5	174	154	123	85
	3000	30.0	182	161	125	86
	500	5.0	70	63	54	37
	750	7.5	86	77	66	46
	1000	10.0	100	89	76	53
	1250	12.5	111	99	85	59
10	1500	15.0	122	109	92	64
16	1750	17.5	132	118	97	67
	2000	20.0	141	126	102	71
	2250	22.5	149	133	107	74
	2500	25.0	157	141	111	77
	2750	27.5	165	147	116	80
	3000	30.0	172	154	118	82
	500	5.0	67	60	51	36
	750	7.5	82	74	62	44
	1000	10.0	95	86	72	50
	1250	12.5	106	96	81	56
18	1500	15.0	116	105	87	61
10	1750	17.5	126	113	92	64
	2000	20.0	134	121	97	68
	2250	22.5	142	128	101	71
	2500	25.0	150	135	106	74
	2750	27.5	157 164	142 148	110 112	77 78
	3000	30.0	104	140	112	/0

**h** = Distance from support surface to centroid of EPA.

**Vs** = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

**Vmax** = Effective wind velocity based on strength or overturning.

266

- ROOF MOUNTS - AAGM - (R

# **AAGM** NON-PENETRATING

The AAGM mount is capable of supporting dishes with diameters up to 10 feet. The AAGM mount is hot-dip galvanized after fabrication for corrosion protection.

Order (1) optional AGMMAT (1/8" thick) or (1) optional AGMPAD (3/8" thick) for a protective barrier between the mount and the roof. Order (1) optional SCK150 safety cable kit (3/16" x 150').

Refer to page 268 for ballast requirements.



#### MAST SPECIFICATIONS

Mount Part No.	Mast Part No.	Mast Description & Height
AAGM35	FYS75	3.50" O.D. x 0.216" wall x 4.5'
AAGM40	FYS76	4.00" O.D. x 0.226" wall x 4.5'
AAGM45	FYS77	4.50" O.D. x 0.237 wall x 4.5'
AAGM55	FYS78	5.56" O.D. x 0.258" wall x 4.5'
AAGM6560	FYS96	6.63" O.D. x 0.280" wall x 5.0'



BA	LLA	STR	EQU	JIKE	MEN	115		
Dish Diameter	Ballast (LBS)	Zero Velocity Load	Vmax (MPH)	Vs (MPH)				
	(200)	(PSF)		EL=0°	EL=20°	EL=40°		
	1000	6.0	135	91	93	101		
	1500	9.0	164	111	114	123		
	2000	12.0	187	128	132	142		
4′	2500	15.1	207	143	147	159		
-	3000	18.1	225	157	161	174		
(1.2 m)	3500	21.1	240	170	174	188		
	4000	24.1	250	181	186	201		
	5000	30.1	250	203	208	225		
	6000	36.1	250	222	228	246		
	1000	6.0	90	60	62	67		
	1500	9.0	109	74	76	82		
	2000	12.0	125	85	88	95		
6'	2500	15.1	138	96	98	106		
(1.8 m)	3000	18.1	150	105	108	116		
(1.011)	3500	21.1	160	113	116	125		
	4000	24.1	165	121	124	134		
	5000	30.1	165	135	139	150		
	6000	36.1	165	148	152	164		
	1000	6.0	68	45	47	50		
	1500	9.0	82	56	57	62		
	2000	12.0	94	64	66	71		
8′	2500	15.1	104	72	74	79		
(2.4 m)	3000	18.1	112	79	81	87		
	3500	21.1	120	85	87	94		
	4000	24.1	125	91	93	101		
	5000	30.1	125	101	104	112		
	6000	36.1	125	111	114	123		
	1000	6.0	46	31	33	40		
	1500	9.0	56	38	40	49		
	2000	12.0	64	44	46	57		
10′	2500	15.1	71	49	52	64		
(3.0 m)	3000	18.1	77	54	57	70		
(	3500	21.1	82	58	61	75		
	4000	24.1	85	62	65	80		
	5000	30.1	85	69	73	85		
	6000	36.1	85	76	80	85		

#### **AAGM** 4.5 FT DISH ELEVATION BALLAST REQUIREMENTS

**EL** = Dish antenna azimuth angle with horizontal.

**Vmax** = Effective wind velocity based on strength or overturning.

Vs = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

**NOTE:** Mast strength may govern antenna capacity.



- ROOF MOUNTS - PRM6 - R

## PRM6 NON-PENETRATING

The PRM6 mount is capable of supporting dishes with diameters up to 6 feet. The mount is hot-dip galvanized after fabrication for corrosion protection. Th PRM6 mount is also UPS shippable.

Order (1) optional PRM6MAT (1/8" thick) or (1) optional PRM6PAD (3/8" thick) for a protective barrier between the mount and the roof. Order (1) optional SCK150 safety cable kit (3/16" x 150').



#### **BALLAST REQUIREMENTS**

Dish	Zero Ballast Velocity			Des	ign Win (M	d Veloo PH)	tiies	
Diameter	(LBS)	Load	EL:	=0°	EL=	20°	EL=40°	
		(PSF)	Vmax	Vs	Vmax	Vs	Vmax	Vs
	1600	17.2	145	122	180	137	198	168
4′	1800	19.4	154	130	184	146	198	179
	2000	21.5	162	137	187	154	198	188
(1.2 m)	2200	23.7	168	144	189	161	198	197
	2400	25.8	171	150	189	168	198	198
	1600	17.2	97	81	117	91	126	112
	1800	19.4	102	86	123	97	132	119
	2000	21.5	108	91	125	102	132	125
	2200	23.7	112	96	126	107	132	131
	2400	25.8	114	100	126	112	132	132
6'	2600	28.0	116	104	126	117	132	132
(1.8 m)	2800	30.1	118	108	126	121	132	132
	3000	32.3	120	112	126	125	132	132
	3200	34.4	122	115	126	126	132	132
	3400	36.6	124	119	126	126	132	132
	3600	38.7	125	122	126	126	132	132
	3800	40.9	125	125	126	126	132	132

#### MAST SPECIFICATIONS

Mount Part No.	Mast Part No.	<b>Mast Description</b>
PRM635	KY1672	3.50" O.D. x 0.216" wall
PRM640	KY1673	4.00" O.D. x 0.226" wall
PRM645	KY1674	4.50" O.D. x 0.237" wall
PRM655	KY1675	5.50" O.D. x 0.258" wall

**EL** = Dish antenna azimuth angle with horizontal.

**Vmax** = Effective wind velocity based on strength or overturning.

Vs = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

NOTE: Mast strength may govern antenna capacity.



ROOF MOUNTS.

# BALLAST REQUIREMENTS FOR ROOF MOUNTS

- 1. Ballast requirements are provided to assist consumers in determining the applicability of a non-penetrating roof mount for an antenna installation and to assist in determining the amount of ballast required. The ballast requirements should not be relied upon without competent local professional examination and verification of its accuracy and suitability for a specific site or application.
- 2. Specific antennas and/or other mounting configurations may require more stringent strength and ballast requirements and must be investigated for each installation. The load carrying requirements of the supporting surface, the mount and mast, the antenna and the antenna's connection to the mast must be investigated for each installation.
- 3. When antenna areas are indicated vs. specific antenna types, the areas tabulated are effective projected areas that include appropriate wind drag factors applied to the projected areas of the supported antennas and the exposed portions of the mount and ballast. The center of the effective projected area is assumed to be at the top of the mounting pipe or the height indicated in the ballast table. Unless otherwise indicated, tabulated ballast requirements assume that the effective projected areas are concentric to the mount and that uplift or download wind forces are insignificant.
- 4. The tabulated wind velocities are considered to occur at the centroid of the effective projected areas. The wind velocity appropriate for an installation must be determined on an individual site basis considering the location and elevation of the mount. The wind velocity at ground level must be multiplied by appropriate height escalation and gust factors. Potential increases in wind velocity due to channeling, roof projections, and other obstructions, must also be considered when determining ballast requirements.
- 5. The ballast weights indicated are assumed to be uniformly distributed on the mount. The weight of the mount and antenna may be considered as ballast. Mounts are assumed to be mounted on a flat supporting surface.
- 6. The zero velocity loads shown are equal to the tabulated ballast weights divided by the total area enclosed by the perimeter of the mount. This area is greater than the ballast contact area. Loads which must be investigated include reactions caused by wind forces and moments, live loads, ice loads, earthquake loads and the dead loads of ballast, mount, antenna, mounting hardware, miscellaneous equipment and roof pads.
- 7. The tabulated maximum wind velocities (Vmax) are based on a minimum 1.5 factor of safety against structural failure and overturning.
- 8. The tabulated wind velocities resulting in sliding (Vs) are based on a factor of safety equal to 1.0 and an effective coefficient of friction equal to 0.50 between the mount and a flat supporting surface. A 1.0 factor of safety was used assuming that at higher wind velocities, safety cables or other suitable attachments to the support structure would prevent sliding beyond a safe, designated area.
- 9. The appropriate coefficient of friction and factor of safety to determine wind velocities resulting in sliding must be determined on an individual site basis. The coefficient of friction may vary under changing moisture and temperature conditions. The minimum coefficient of friction must be used to evaluate sliding resistance. Wind speeds resulting in sliding for other factors of safety or for other coefficients of friction may be found by multiplying the tabulated values of Vs by the following modification factor:

- 10. The values of Vs indicated do not apply for installations which are prevented from sliding by cables or other suitable attachments to the supporting structure.
- 11. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all contact areas.
- 12. ROHN recommends that ballast material always be placed prior to mounting the antenna and that roof pads and mount be secured to prevent hazards from occurring under extreme wind loading conditions. Precautions should also be taken to prevent the inadvertent removal of ballast material after installation and to insure that all ballast material is fully supported by the mount (required for ballast to be effective in resisting overturning and sliding).
- 13. When adhesives are used to secure roof pads, the adhesive must be compatible with the supporting surface. Precautions should be taken to insure that damage to the supporting surface will not occur upon wind loading.
- 14. The installation, roof material and supporting structure must be capable of withstanding all loads imposed by the antenna system. Supporting surfaces, anchors and/or safety cables must be sufficient to resist the reactions from the antenna system. The installation must meet all applicable local, state and federal requirements.



- ROOF MOUNTS - URM -

# URM

ROHN's Universal Roof Mount (URM) is capable of supporting most PCS, Cellular, and Microwave antennas. The URM adapts to various roof pitches and the fully adjustable rear-leg allows for use on a flat or up to a 12"/12" pitched roof. Installation is easy because of the quick adaptability, plus there's no need for concrete blocks. The URM is hot-dip galvanized after fabrication for corrosion protection, and can easily ship UPS.



#### Features:

- 1. URM mount can be used on a flat roof, sloped roof or over a roof peak.
- 2. URM mount can be used with 2.88" to 4.50" O.D. masts (order separately).
- 3. Bottom of mount pivots to match roof pitch.
- 4. Rear leg adjusts for extra length.
- 5. Mount base angles are pre-drilled to accept 1/2" diameter connectors.



# SHRM

ROHN's Saw Horse Roof Mount (SHRM) is capable of supporting most PCS, Cellular, and Microwave antennas. The SHRM allows for placement of antennas on flat roofs or roof peaks with up to a 12"/12" pitch. The SHRM is also able to be installed on flat roofs. Installation is easy because of the quick adaptability, plus there's no need for concrete blocks. The SHRM is hot-dip galvanized after fabrication for corrosion protection, and can easily ship UPS.



#### **Optional Masts - Ordered Separately**

P2530	2.88" O.D. x 0.203" wall x 30" Long
P330	3.50" O.D. x 0.216" wall x 30" Long
P3530	4.00" O.D. x 0.226" wall x 30" Long
P430	4.50" O.D. x 0.237" wall x 30" Long

#### Features:

- 1. SHRM mount can be used on a flat roof or on a roof peak, up to 45 degrees maximum pitch.
- 2. SHRM mount can be used with 2.88" to 5.00" O.D. masts (ordered separately).
- 3. Bottom of mount pivots to match roof pitch.
- 4. Mount base angles are pre-drilled to accept 1/2" diameter connectors.



# TRT36 / TRT60 / TRTAG2

The TRT is a Tripod Roof Tower, which comes fully assembled and snaps out into position for quick installation using up to 1/4" dia. connectors. The TRTAG2 mount comes with a 2 3/8" O.D. hot-dip galvanized mast, the TRT36 and TRT60 mounts accept masts up to 1 3/4" O.D. (ordered separately). The bolt-on swivel feet adjust to most any pitch roof. TRT mounts are galvanized for corrosion protection. All TRT mounts are UPS shippable.



#### **SPECIFICATIONS**

Part No.	Description
TRT36	3' tall, tube legs (PG)
TRT60	5' tall, tube legs (PG)
TRTAG2	5' tall, angle legs (HDG) with 2.38"O.D. x 0.154" wall x 3.5' long mast (HDG)

PG = Pre-galvanized HDG = Hot-dip galvanized







# WALL MOUNTS





# 1 L G

The Universal One-Legged Mount (1LG) may be the one and only mount that can be installed on any part of any building. This mount is designed for many types of antennas – home, TV, MMDS, DBS and more. The mount has a 1-1/4" O.D. mounting pipe and includes (4) 1/4" dia. x 2" long lag screws for installation. The mount is galvanized for corrosion protection and goes together quickly. The mount is easily shipped via UPS.





-WALL MOUNTS - PWM-

# PWM

The ROHN Pole Wall Mount (PWM) is designed to support most Satellite, PCS, Cellular, and Microwave antennas. The PWM allows you to vary the mounting pipe length and diameter, accepting 2 7/8" O.D. - 5" O.D. mounting tubes. The PWM is hot-dip galvanized after fabrication for corrosion protection, and can easily be shipped UPS.





-WALL MOUNTS-

## W M 4



# EXTENDED WALL MOUNT ASSEMBLIES

Clamp Accepts 7/8" to 2 3/4" O.D. Mast Tube Diameters, mast ordered separately.

Single and double extended wall mount assemblies can be used on masonry, wood, metal, and other types of walls using up to 1/4" dia. lag screws or bolts. The Wall Mounts are versatile, coming in a variety of stand off lengths and supporting 7/8" to 2 3/4" O.D. masts. The mounts are available as single brackets or double brackets. Masts are held in place with a unique "Anti-Twist" locking clamp. Galvanized for durability, these Wall Mounts are UPS shippable.

Single:	Wall Clearance
WM6S	6" clearance
WM8S	8" clearance
WM12S	12" clearance
WM18S	18" clearance
WM24S	24" clearance
Double:	Wall Clearance
WM8D	8" clearance
WM12D	12" clearance
WM18D	18" clearance
WM24D	24" clearance

NOTE: Connectors to wall not included.





Anti-Twist Locking Screw

Single: Upper Bracket only

Double: Upper and Lower Bracket

# **G-SERIES WALL BRACKETS & BASE MOUNTS**

The HBUTVRO provides lateral support for 25G, 45G and 55G bracketed towers.

The bracket is pre-drilled to accept 5/8" dia. connectors to wall at 16" or 24" spacing.



Adjustable to position tower 18" - 36" from wall.

**25GWM** FOR 25G WALL SUPPORTED TOWERS



The 25GWM upper bracket provides lateral support for 25G wall supported towers. The lower bracket provides both lateral and vertical support. The 25G base plate (P/N KH6775, not shown) is provided with mount to provide an adjustable 6" - 20" of clearance to wall.

The brackets are pre-drilled to accept 5/8" dia. connectors at 16" or 24" spacing. A minimum 5' separation between the top and bottom brackets is recommended.

The KH1014 bracket provides lateral support for 65G bracketed towers.

The brackets are pre-drilled to accept 3/4" dia. connectors to wall at various center-to-center spacings (4.75" increments).

Adjustable to position tower 18" - 30" from wall.



**KH1014** FOR 65G BRACKETED TOWERS







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# TOWER MODIFICATION MATERIAL



# ROHN MODEL 80 GUYED TOWER

STANDARD GUY BRACKETS FOR 83 & 84 SECTIONS (2 3/8" & 2 7/8" O.D. LEGS)



	GA80 Bill of Material		
Item Qty. Part No. Description		Description	
1	3	KC143	Bar Flat Bracket Guy .38 x 4.5 x4.5'
2	3	KC145	Bar Flat TA 2.75 x .38 x 1.82′
3	6	210047GA	Bolt Assembly 3/4 x 2 HSB A325
4	9	210058GA	Bolt Assembly 3/4 x 5 HSB A325

These guy brackets are designed for 5/8" EHS maximum guys at 80% guy radius. For use on ROHN Model 80 tower only, supported on brace clips.

For single braced standard sections, guy bracket must be used at the top of the section.

For double braced standard sections, guy brackets may be used at any panel point.

# **ROHN MODEL 80 GUYED TOWER**

STANDARD GUY BRACKETS FOR 85 SECTIONS (3 1/2" O.D. LEGS)



GA85 Bill of Material			
ltem	Qty.	Part No. Description	
1	3	3 KC144 Bar Flat Bracket Guy .38 x 5 x 4.	
2	3	KC465	Bar Flat TA .38 x 3.5 x1.83′
3	6	210050GA	Bolt Assembly 3/4 x 2-3/4 HSB A325
4	9	210059GA	Bolt Assembly 3/4 x 5-1/2 HSB A325
5	3	KC441	Spacer Bracket Guy .63 x 3.13 x 4.5"

These guy brackets are designed for 5/8" EHS maximum guys at 80% guy radius. For use on ROHN Model 80 tower only.

For single braced standard sections, guy bracket must be used at the top of the section.

For double braced standard sections, guy brackets may be used at any panel point.



#### **TORQUE ARM** CHANNEL ASSEMBLY FOR 80 TOWERS



**NOTE:** For single braced sections, torque arm must bear on brace clips above flange plates. For double braced sections, torque arm must bear on brace clips at any panel point.



**REINFORCEMENTS FOR 80 SERIES TOWERS** STANDARD PARTS AVAILABLE FOR TOWER MODIFICATIONS AND FIELD REINFORCEMENT



To order, provide leg size and size of horizontal desired.



Added braces are shown as a bold line.

Products LLC

# **REINFORCEMENTS FOR 80 SERIES TOWERS**

STANDARD PARTS AVAILABLE FOR TOWER MODIFICATIONS

AND FIELD REINFORCEMENT

Similar reinforcements available for 90 series towers.



X-Brace Lug Requirements (Pipe)			
Leg O.D.	Assy.P/N	Lug P/N (1)	U-Bolt Assy.(4)
2.38	KB497A	KB299	JR83A
2.38	KB497ASP	KB299SP	JR84A
2.88	KB498A	KB489	JR84A
2.88	KB498ASP	KB489SP	JR88A
2.88	KB498ASP1	KB489SP1	JR89A
3.50	KB499A	KB492	JR88A

Х-Ві	X-Brace Lug Requirements (Solid Rod)			
Leg O.D.	Assy.P/N	Lug P/N (1)	U-Bolt Assy.(4)	
2.25	KB565A	KB555	JR83A	
2.50	KB566A	KB556	JR83A	
2.75	KB567A	KB557	JR84A	
3.00	KB568A	KB558	JR84A	
3.25	KB569A	KB559	JR88A	

#### **Standard Bracing Available**

Bracing (16 GA)		
Part No.	Description	
KB35R	1.50" Tube, 16GA Diagonal	
KB36R	1.50" Tube, 16GA Horizontal	
210018GA	1/2 x 1-1/2 A325 Bolt Assy.	

Bracing (11 GA)		
Part No.	Description	
KB37R	1.50" Tube, 11GA Diagonal	
KB38R	1.50" Tube, 11GA Horizontal	
210019GA	1/2 x 1-3/4 A325 Bolt Assy.	

Standard and Heavy Duty replacement braces are available. To order heavy duty braces, specify leg size and desired brace size.



Added braces are shown as a bold line.



SELF-SUPPORTING REINFORCEMENTS STANDARD PARTS AVAILABLE FOR TOWER MODIFICATIONS AND FIELD REINFORCEMENT



Bolt on brackets are available for all SSV towers.



Products LLC


### **SSMW SELF-SUPPORTING REINFORCEMENTS** STANDARD PARTS AVAILABLE FOR TOWER MODIFICATIONS

AND FIELD REINFORCEMENT



Products LLC

G	UY AN	CHOR	SELECTION CHART
5	TURNBU	JCKLES	

GU	GUYS TURNBUCKLES									
SIZE & TYPE	ULTIMATE STRENGTH (LBS)	SIZE	ULTIMATE STRENGTH (LBS)	AN	CHOR RO	DS COMP	ATIBLE W	ITH TURN	BUCKLES	SIZE
3/16EHS	3990	3/8	6000		GAC					
1/4EHS	6650	1/2	11000	GAR	GAC	GAC34				
5/16EHS	11200	5/8	17500	GAR	GAC	GAC34	GAC56			
3/8EHS	15400	5/8	17500	GAR		GAC34	GAC56			
7/16EHS	20800	3/4	26000	GAR		GAC34	GAC56	GAC57		
1/2EHS	26900	7/8	36000				GAC56	GAC57		
9/16EHS	35000	7/8	36000				GAC56	GAC57		
5/8EHS	42400	1	50000					GAC57	GAC58	GAC59
3/4EHS	58300	1-1/4	76000						GAC58	GAC59

#### **ANCHOR RODS**

Туре	L	А	В	с	D	т	Part No.	Weight (lbs.)
GAR	84″	1″	-	2″	5/8″	-	GAR30	9
GAC	84″	2″	-	1″	5/8″	3/16″	GAC303	13
GAC	84″	2″	-	1″	5/8″	3/16″	GAC305	14
GAC34	84″	2″	12″	1″	3/4″	3/8″	GAC3455TOP	25
GAC56	120″	2-1/2″	12″	1-1/4″	1-1/4″	1/2"	GAC5655TOP	65
GAC57	168″	3″	12″	1-3/8″	1-7/16″	3/4″	GAC5755TOP	125
GAC58	192″	4″	12″	1-3/4″	1-1/4″	1″	GAC5855TOP	220
GAC59	240″	4″	18″	1-3/4″	1-7/16″	1″	GAC5955TOP	310



**NOTE:** GAC Anchors require use of eye and eye turnbuckles. All other anchors are for use with eye and jaw turnbuckles. Refer to page 297.

288

# HARDWARE





	[/	IIEA DOLIS, NUI & LOCK		
		Dia.x Length (inches)	Assembly Part No.	Weight (lbs./100pcs)
		5/16 x 2-3/8	210003GA	7/100
		3/8 x 1-1/4	210005GA	10/100
		3/8 x 1-1/2	210008GA	10/100
		3/8 x 2	210009GA	12/100
_	Thread Length	3/8 x 2-1/2	210011GA	13/100
	= 2 (bolt dia.) + 1/4"	3/8 x 2-1/2 (Full Thread)	210176GA	13/100
		3/8 x 4	210014GA	18/100
		3/8 x 4 (Full Thread)	210013GA	18/100
		7/16 x 2-1/2	210016GA	17/100
		5/8 x 1-3/4	210146GA	35/100
Full Thread		5/8 x 2	210140GA	38/100
	_	5/8 x 3-1/4	210036GA	51/100
	-	5/8 x 3-3/4	210038GA	53/100
	-	3/4 x 4-1/2	210091GA	91/100
	-	7/8 x 3	210062GA	103/100

#### **GRADE 5 BOLT ASSEMBLIES, GALVANIZED** [HEX BOLTS, NUT & LOCKING DEVICE]

Pal nuts included with assembly P/N shown. See table below for other nut locking devices.

#### NUT LOCKING DEVICE OPTIONS [ADD SUFFIX AFTER BOLT ASSEMBLY PART NUMBER]

Suffix	Nut Locking Device
-	Pal Nut
AN	Anco Nut
TLN	Tri-Loc Nut
LW	Split Ring Washer

Example:

For 3/8" x 1-1/2" bolt assembly with a split ring lock washer used for a nut locking device, in place of a pal nut, order part number: **210011GALW** 

NOTE: To order bolts or other hardware in this catalog without nuts and nut locking devices, remove the "A" from the end of the assembly part number.



— HARDWARE –

## NUTS, BOLTS & WASHERS



#### **THREAD LENGTHS**

Bolt Diameter	Thread Length (inches)
1/2″	1
5/8″	1.25
3/4″	1.38
7/8″	1.5
1″	1.75
1-1/8″	2
1-1/4″	2
1-3/8″	2.25
1-1/2″	2.25

#### STRUCTURAL BOLT ASSEMBLIES, 120 KSI TENSILE STRENGTH, GALVANIZED IHEAVY HEX BOLTS, NUTS & NUT LOCKING DEVICE]

[HEAVY HEX BOLIS, NUIS		Weight
Dia.x Length (inches)	Assy. Part No.	(lbs/100pcs)
1/2 x 1-1/4	210017GA	21/100
1/2 x 1-1/2	210018GA	22/100
1/2 x 1-3/4	210019GA	24/100
1/2 x 2	210020GA	25/100
5/8 x 1-1/2	210029GA	34/100
5/8 x 1-3/4	210030GA	36/100
5/8 x 2	210031GA	68/100
5/8 x 2-1/4	210032GA	42/100
5/8 x 2-1/2	210033GA	43/100
5/8 x 3-1/4	210072GA	45/100
3/4 x 1-3/4	210046GA	58/100
3/4 x 2	210047GA	61/100
3/4 x 2-1/4	210048GA	62/100
3/4 x 2-1/2	210048GA	66/100
3/4 x 2-3/4	210050GA	70/100
3/4 x 4-1/2	210057GA	91/100
3/4 x 5	210058GA	94/100
3/4 x 5-1/2	210059GA	104/100
7/8 x 2-1/4	210061GA	94/100
7/8 x 3-1/2	210063GA	113/100
1 x 4-1/4	210069GA	172/100
1 x 5-1/2	210070GA	197/100
1 x 6	210164GA	204/100

Pal nuts included with assembly P/N shown.

Add suffix from page 288 for other nut locking device.

#### U-BOLTS, SQUARE BEND, GALVANIZED

D	Dimensions (inches)			Assy. Part No.	Weight	
A	В	С	D	Assy. Part No.	(lbs/100pcs)	
1/2	3-1/4	4-3/8	1-1/4	JR811A	73/100	
1/2	4-1/4	5-5/16	1-1/4	JR812A	87/100	
1/2	4-1/4	5-13/16	1-3/4	JR812LA	91/100	
1/2	6-1/4	7-13/16	1-3/4	JR815A	119/100	
3/4	6-1/4	8-1/2	2-1/2	JR12685SQA	277/100	

Pal nuts included with assembly P/N shown. Add suffix from page 288 for other nut locking device.









## U-BOLTS, ROUND BEND, GALVANIZED

1	Dimensio	ns (inche	s)	A cont Dout N	Weight
А	В	С	D	Assy. Part No.	(lbs./100pcs)
1/4	1-1/4	2-1/4	1-3/8	JR45GA	12/100
5/16	1-1/2	2-5/8	1-1/4	JR51A	15/100
5/16	1-1/2	2	1-1/4	JR55A	14/100
5/16	1-11/6	2-1/4	1	JR54A	15/100
3/8	13/16	1-5/8	7/8	JR69A	21/100
3/8	1	2-1/4	1-1/4	JR67A	23/100
3/8	1-1/4	2-3/4	1-5/8	JR66A	31/100
3/8	1-1/2	3	1-3/4	JR65A	29/100
3/8	2-1/8	3	1-1/4	JR68A	31/100
3/8	2-1/2	4	2	JR60A	35/100
3/8	2-1/2	3-1/2	1-1/2	JR61A	33/100
3/8	3-1/2	4-5/8	1-5/8	JR64A	41/100
3/8	4	6	2-1/4	JR62A	42/100
3/8	4-1/2	6-1/2	2-1/4	JR63A	52/100
1/2	3/4	3-1/2	2-1/2	JR81A	60/100
1/2	2	3-3/4	1-3/4	JR810A	63/100
1/2	2-1/4	4-1/2	2-1/4	JR82A	71/100
1/2	2-1/2	4-1/2	2-1/2	JR83A	71/100
1/2	3	5-5/8	3	JR84A	84/100
1/2	3	4-1/8	1-1/2	JR84SA	73/100
1/2	3-1/2	6	3	JR88A	88/100
1/2	4	6-1/2	3-1/2	JR89A	98/100
1/2	4-1/2	6	2-1/4	JR85A	91/100
1/2	5-5/8	8	3-1/4	JR86A	114/100
1/2	6-3/4	9	3-1/4	JR87A	127/100
1/2	8-3/4	11-1/8	2-1/2	JR90SA	188/100
1/2	10-7/8	13	2-1/2	JR110A	198/100
1/2	12-7/8	15	2-1/2	JR120A	243/100
3/4	3	5-3/4	3	JR121A	199/100
3/4	3-1/2	6-1/4	2-3/4	JR122A	263/100
3/4	4	6-3/4	2-1/2	JR123A	284/100
3/4	4-1/2	7-1/4	2-1/2	JR124A	280/100
3/4	5-5/8	8-5/16	2-1/2	JR125A	318/100
3/4	6-3/4	10	3-1/2	JR126STA	390/100
3/4	8-3/4	11-3/8	2-1/2	JR128A	424/100
3/4	10-7/8	13-3/8	2-5/8	JR1210A	517/100
3/4	12-3/4	15	2-1/2	JR1212A	591/100









#### J-BOLTS, GALVANIZED

Dimensions (inches)			)	Acou Dout No.	Weiselet (III (100)
A	В	C	D	Assy. Part No.	Weight (lbs./100pcs)
3/8	5/8	4	2-5/8	J44AA	16/100
3/8	5/8	5-11/16	2-3/4	J51A	23/100
3/8	5/8	7-9/16	5-1/2	J170A	35/100
3/8	3/4	2	1-1/2	J167A	10/100

Pal nuts included with assembly P/N shown.

Add suffix from page 288 for other nut locking device.



#### U-BOLTS, DOUBLE BEND, GALVANIZED

Description	Assy. Part No.	Weight (lbs./100pcs)
5/16" dia. (18 THD) For 1-1/4" Tubing	TB5125BA	54/100



#### BASE BOLT, GALVANZED

Description	Part No.	Weight (lbs.)
1/2" x 12" + 2" (Hook)	1/2X12BB	1/2 ea.
5/8″x 12"	260145G	1 ea.
3/4" x 16" + 3" (Hook)	3/4X16BB	1-1/2 ea.

## 

#### STEP BOLT, GALVANIZED

Description	Part No.	Weight (lbs./100pcs)
5/8" x 7" (2-1/2"THD Length)	210042G	84/100
5/8" x 7" (2-1/2" THD Length) With 2 Heavy Hex Nuts	5/8STEP	108/100













#### HEAVY HEX NUT OPTIONS, GALVANIZED

Description	Plain Nut	Weight (lbs./100pcs)	Pal Nut P/N	Weight (lbs./100pcs)	Tri-Loc P/N	Weight (lbs./100pcs)	Anco P/N	Weight (lbs./100pcs)
3/8"-16	230005	3/100	110159	0.4/100	38CTLFG/2H	3/100	230008	3/100
1/2″-13	110143	7/100	110160	1/100	50CTLFG/2H	7/100	110581	7/100
5/8″-11	110146	12/100	110161	1/100	58CTLFG/2H	12/100	110510	12/100
3/4″-10	230020	19/100	110162	2/100	75CTLFG/2H	19/100	110511	19/100
7/8″-9	110149	30/100	110163	2/100	78CTLFG/2H	30/100	110512	30/100
1″-8	110150	43/100	110164	4/100	1CTLFG/2H	43/100	110513	43/100

#### HARDENED FLAT WASHERS, GALVANIZED



Description	Plain Washer	Weight (lbs./100pcs)	Split Ring Washer	Weight (lbs./100pcs)
3/8"	110950	1/100	250082	1/100
1/2″	110202	2/100	250083	2/100
5/8"	110205	3/100	250084	3/100
3/4″	110208	5/100	250042	5/100
7/8"	110210	6/100	250046	10/100
1″	110214	8/100	250047	10/100

#### **BEVELED WASHERS, GALVANIZED**



Description	Part No.	Weight (lbs/100pcs.)
3/8″	110398	7/100
1/2″	110399	7/100
5/8"	110400	15/100
3/4″	110551	14/100
7/8″	250062G	31/100
1″	110686	28/100

## **ROHN GUY MATERIALS**



#### THIMBLES, GALVANIZED











## **ROHN GUY MATERIALS**

#### CABLE CLAMPS, FORGED, GALVANIZED

Description	Part No.	Weight (lbs./100pcs.)
3/16" Cable Clamp, Forged	140214	10/100
1/4" Cable Clamp, Forged	140001	20/100
5/16" Cable Clamp, Forged	140002	30/100
3/8" Cable Clamp, Forged	140003	47/100

## NUT & PIN TYPE SHACKLES, HEAT TREATED, GALVANIZED

Description	Part No.	Weight (lbs./100pcs.)
3/8" (13,200 lbs. ultimate strength)	3/85	25/100
1/2" (26,400 lbs. ultimate strength)	1/2S	70/100
5/8" (42,000 lbs. ultimate strength)	5/8S	150/100
3/4" (67,700 lbs. ultimate strength)	3/4S	232/100
7/8" (85,800 lbs. ultimate strength)	7/8S	340/100
1" (112,200 lbs. ultimate strength)	1S	500/100
1-1/8" (125,400 lbs. ultimate strength)	1-1/8S	700/100
1-1/4" (158,400 lbs. ultimate strength)	1-1/4S	975/100

#### **BIG GRIP END SLEEVES, GALVANIZED**

Description	Part No.	Weight (lbs./100pcs.)
3/16″	GC65303	3/100
1/4"	GC65136	3/100
5/16″	GG65128	3/100
3/8"	GC65264	5/100
7/16″	GC65265	7/100
1/2"	GC65266	10/100
9/16″	GC65267	11/100
5/8″	GC65268	14/100
3/4″	GC65269	21/100
7/8″	GC65270	27/100
1″	GC65271	32/100



#### NOTES:

1. Oversized heavy duty thimbles must be used with all Big-Grips.



## ROHN GUY MATERIALS

#### **BIG-GRIPS, GALVANIZED** [BIG-GRIP WITH END SLEEVE]

Description	Part No.	Weight (lbs./100pcs.)
3/16″	BG2142	33/100
1/4"	BG2144	50/100
5/16″	BG2146	82/100
3/8"	BG2147	112/100
7/16″	BG2148	188/100
1/2"	BG2115	315/100
9/16″	BG2116	480/100
5/8″	BG2111	650/100
3/4"	BG2112	1080/100
7/8″	BGMS7023	1125/100

- H A R D W A R E -

#### TURNBUCKLES, HEAT-TREATED, GALVANIZED

Thread Diameter x Take Up	Туре	Part No.	Weights (lbs.)
3/8" x 6" (6,000 lbs. ultimate strength)	EE	3/8TBE&E	1
3/8" x 6" (6,000 lbs. ultimate strength)	EJ	3/8TBE&J	1
1/2" x 12" (11,000 lbs. ultimate strength)	EE	1/2TBE&E	2
1/2" x 12" (11,000 lbs. ultimate strength)	EJ	1/2TBE&J	2
5/8" x 12" (17,500 lbs. ultimate strength)	EJ	5/8TBE&J	4
3/4" x 12" (26,000 lbs. ultimate strength)	EJ	3/4TBE&J	5
7/8" x 12" (36,000 lbs. ultimate strength)	EJ	7/8TBE&J	8
1" x 12" (50,000 lbs. ultimate strength)	EJ	1TBE&J	11
1-1/4" x 18" (76,000 lbs. ultimate strength)	EJ	11/4X18TB	24
1-1/2"x 18" (107,000 lbs. ultimate strength)	EJ	11/2X18TB	35
1-3/4" x 18" (140,000 lbs. ultimate strength)	EJ	13/4X18TB	54

## EYE BOLT, GALVANIZED

Description	Part No.	Weight (lbs.)
5/8" x 18" Eye Bolt with Nuts	260004P	2

#### SCREW ANCHOR, GALVANIZED

Description	Part No.	Weight (lbs.)
1/2" dia. x 30" long (4" auger)	GAS4303	7
5/8″ dia. x 48" long (6″ auger)	GAS604	7











97)





HARDWARE -

Description	Part No.	Weight (lbs.)
6 Strand, 18GA - 1,000' coil (610 lbs. ultimate strength)	618	42
3/16" - 500' coil (3,990 lbs. ultimate strength)	3/16EHS500	36
3/16" - 1,000' coil (3,990 lbs. ultimate strength)	3/16EHS1000	73
3/16" - cut length* (3,990 lbs. ultimate strength)	3/16EHS	73/MFT
1/4" - 500' coil (6,650 lbs. ultimate strength)	1/4EHS500	60
1/4" - 1,000' coil (6,650 lbs. ultimate strength)	1/4EHS1000	120
1/4" - cut length* (6,650 lbs. ultimate strength)	1/4EHS	120/MFT
5/16" - cut length* (11,200 lbs. ultimate strength)	142265	205/MFT
3/8" - cut length* (15,400 lbs. ultimate strength)	142261	279/MFT
7/16" - cut length* (20,800 lbs. ultimate strength)	142260	399/MFT
1/2" - cut length* (26,900 lbs. ultimate strength)	142259	517/MFT
9/16" - cut length* (35,000 lbs. ultimate strength)	142258	671/MFT
5/8" - cut length* (42,400 lbs. ultimate strength)	142264	813/MFT
3/4" - cut length* ( 58,300 lbs. ultimate strength)	142257	1155/MFT
7/8" - cut length* (79,700 lbs. ultimate strength)	142256	1581/MFT
1" - cut length* (122,000 lbs. ultimate strength)	1BS	2100/MFT

\*Please provide desired guy length with order. MFT = 1,000 FT



## GUY STRAIN INSULATORS, PORCELAIN

Description	Part No.	Weight (lbs.)
10,000 lbs. ultimate strength	502	1
12,000 lbs. ultimate strength	504	1.5
20,000 lbs. ultimate strength	506	3



#### **GRIPPLE GRIP**

Description	Part No.
Gripple Grip for 6 strand, 18 GA guy installation	61820GRPL

## GUYS, GALVANIZED



## ROHN REV G GROUNDING



Tower Type	Description	Kit Part No.	No. of Kits Required
	80 & 90 Tower Base Grounding Kit		3 per tower
	55G & 65G Base Grounding Kit	BGK2GGX	3 per tower
	25G & 45G Base Grounding Kit	BGK3GGX	3 per tower
Guyed Masts	Guy Anchor Grounding Kit	AGK1GGX	1 per each anchor radius
Guyeu Masts	Guy Anchor Clamp for 1/2" - 3/4" O.D. Rods	CPC.5/.75	1 per anchor
	Guy Anchor Clamp for 1" - 1-1/4" O.D. Rods	CPC1/1.25	1 per anchor
	Guy Anchor Clamp for 1-1/2" - 2" O.D. Rods	CPC1.5/2	1 per anchor
	Guy Anchor Clamp for Angle Anchor Rods	213	1 per anchor
	1/2" Anchor Bolt Grounding Kit	BGK4GGX	3 per tower/pole
	5/8" Anchor Bolt Grounding Kit	BGK5GGX	3 per tower/pole
Self-Supporting Structures	3/4" Anchor Bolt Grounding Kit	BGK6GGX	3 per tower/pole
	7/8" Anchor Bolt Grounding Kit	BGK7GGX	3 per tower/pole
	1" Anchor Bolt Grounding Kit	BGK8GGX	3 per tower/pole

- H A R D W A R E -



## STEEL TUBING



ROHN offers both swaged and expanded 16 GA. tubing, commonly used with our roof and wall mounts.

Swaged - This tubing has a locking joint. When tubing is swaged, the metal is compressed and made thicker so that the joint is stronger than the original material. Swaging also eliminates the "joint bulge" common with expanded tubing.

Expanded - A tube with an expanded end used along with a tube with a plain end.

ROHN tubing is offered in two types of finishes, hot-dip galvanized and pre-galvanized. ROHN's hot-dip galvanized tubing is fabricated from high strength steel, then immersed in molten zinc giving all surfaces, including the interior, an even coating of zinc for maximum corrosion protection. There are no seams, holes or edges left uncoated. Pre-galvanized tubing is made from a coil of steel which is galvanized at the steel mill, cut into strips, and then formed into a piece of tubing. Where the tubing is welded, zinc is sprayed over the weld to give it protection. It has a slightly uncoated seam on the inside and ends.



Expanded

Swaged

Tubing Part No.	End Type	Description	Finish
160505GHS	Swaged	1-1/4″ O.D. x 16 GA. x 5′ long	Hot-Dip Galvanized
160505PHS	Swaged	1-1/4" O.D. x 16 GA. x 5' long	Pre-Galvanized
160506PLX	Expanded	1-1/2" O.D.x 16 GA.x 5' long	Pre-Galvanized
161005GHS	Swaged	1-1/4" O.D.x 16 GA.x 10' long	Hot-Dip Galvanized
161005PHS	Swaged	1-1/4" O.D.x 16 GA.x 10' long	Pre-Galvanized

#### **TUBING SPECIFICATIONS**



- H A R D W A R E -

## MOUNTING TUBES HOT-DIP GALVANIZED

#### Standard

Description	Length	Part Number	Weight (lbs.)
2.38" O.D. x 0.154" wall	5'	KH275	20
2.38" O.D. x 0.154" wall	6'	KH1256	24
2.38" O.D. x 0.154" wall	6' 8″	KH281	26
2.38" O.D. x 0.154" wall	8'	KY1304	30
2.38" O.D. x 0.154" wall	10'	KH287	39
2.38" O.D. x 0.154" wall	12'	KH365	47
2.38" O.D. x 0.154" wall	14'	KH2805	55
2.38" O.D. x 0.154" wall	16′	KH2806	62
2.38" O.D. x 0.154" wall	18′	KH2807	70
2.88" O.D. x 0.203" wall	5'	KH276	31
2.88" O.D. x 0.203" wall	6'	KH2576	37
2.88" O.D. x 0.203" wall	6' 8″	KH282	41
2.88" O.D. x 0.203" wall	8'	KH2541	50
2.88" O.D. x 0.203" wall	10'	KH288	62
2.88" O.D. x 0.203" wall	12'	KH366	74
2.88" O.D. x 0.203" wall	14'	KH2802	86
2.88" O.D. x 0.203" wall	16'	KH2803	99
2.88" O.D. x 0.203" wall	18'	KH2804	111
2.88" O.D. x 0.203" wall	20′	KH4813	123
4.50" O.D. x 0.237" wall	5'	KH279	58
4.50" O.D. x 0.237" wall	6' 8″	KH285	77
4.50" O.D. x 0.237" wall	8'	KH2447	92
4.50" O.D. x 0.237" wall	10'	KH291	115
4.50" O.D. x 0.237" wall	12'	KH369	138
4.50" O.D. x 0.237" wall	14'	KH2509	161

Extra Heavy			
Description	Length	Part Number	Weight (lbs.)
2.38" O.D. x 0.218" wall	5'	KH1193	27
2.38" O.D. x 0.218" wall	6' - 8″	KH1194	36
2.38" O.D. x 0.218" wall	8'	KH2229	43
2.88" O.D. x 0.276" wall	5'	KH1200	41
2.88" O.D. x 0.276" wall	6' - 8″	KH1201	55
2.88" O.D. x 0.276" wall	8'	KH2987	65
2.88" O.D. x 0.276" wall	10'	KH1202	82
2.88" O.D. x 0.276" wall	12'	KH1203	98
2.88" O.D. x 0.276" wall	14'	KH5768	114
4.50" O.D. x 0.337" wall	5'	KH1221	80
4.50" O.D. x 0.337" wall	6' - 8″	KH1222	106
4.50" O.D. x 0.337" wall	8'	KH1977	127
4.50" O.D. x 0.337" wall	10'	KH1223	159
4.50" O.D. x 0.337" wall	12'	KH1224	191
4.50" O.D. x 0.337" wall	16'	KH3614	254
4.50" O.D. x 0.337" wall	18'	KH5627	286





## MISCELLANEOUS



#### PAINT

Description	Part No.	Weight (lbs.)
Tower Paint, Orange, Acrylic Latex	PNTNPO5	11/gal.
Tower Paint, White, Acrylic Latex	PNTNPW9	11/gal.



#### COLD GALVANIZE

Description	Part No.	Weight (lbs.)
Cold Galvanize, Spray	380063	1/can
Cold Galvanize, Gallon	380147	1/gal.



# TOWER LIGHTING GUIDELINES







L-864 (Red Beacon)

Products LLC

Day Protection = Aviation Orange/White Paint Night Protection = 2,000cd Red Beacon and Sidelights

Phone (309) 566-3000 • Fax (309) 566-3079 • www.rohnnet.com • The Industry Standard

## FAA STYLE "B" SERIES HIGH INTENSITY



Day Protection = 200,000cd White Strobe Twilight Protection = 20,000cd White Strobe Night Protection = 2,000cd White Strobe





## FAA STYLE "C" SERIES HIGH INTENSITY



3 Flashheads required per for 360° coverage

Products LLC

Phone (309) 566-3000 • Fax (309) 566-3079 • www.rohnnet.com • The Industry Standard

## FAA STYLE "D" SERIES MEDIUM INTENSITY WHITE









Phone (309) 566-3000 • Fax (309) 566-3079 • www.rohnnet.com • The Industry Standard

Products LLC

# ROHN CONSTRUCTION SERVICES



## **ROHN CONSTRUCTION SERVICES**

ROHN's Construction Group has direct and immediate access to company management, engineering, production and shipment to provide you with the highest quality products and a wide range of services to help you complete your project. This direct and simple line of communication saves time and eliminates long distance contact between the manufacturer and installer. It enables us to answer questions internally before they have the chance to grow into costly delays.

We employ professionals with the expertise required to provide you a full turnkey communication project. We understand your needs, and when your job becomes a ROHN Construction project, we assign a single staff member to take charge. This one point of contact provides you the answers from scope changes to shipping schedules. At any time, you can be assured of the updated status of all phases of your project without having to contact multiple manufacturers and contractors.

ROHN's Construction Group, in addition to our in-house staff, has a network of suppliers, consultants and contractors to provide:

- Certified Tower Design Drawings
- Zoning and Permitting Assistance
- Environmental Studies
- Geotechnical Services
- Site Preparation
- Civil Construction
- Tower Foundations
- Equipment Shelter Foundations
- Tower Erection
- Equipment Shelter Installation
- Provide and Install Antennas and Transmission Lines
- System Testing
- Security Fencing
- Maintenance and Inspection

With over 60 years experience, what company could be more qualified to provide single source turnkey installation services more quickly and efficiently than ROHN? Nobody knows the products and installation methods the way ROHN does. Rest assured, ROHN is there to fulfill all your requirements.



## CONSIDERATIONS, RECOMMENDATIONS & SAFETY INFORMATION



CONSIDERATIONS IN ERECTING TOWERS

## CONSIDERATIONS IN ERECTING TOWERS & SIMILAR PRODUCTS

Your local municipality or development may have established height and building standards governing the use of towers and similar products. Height restrictions are found in zoning ordinances and private deed restrictions. Building standards may be found in local building codes. Complying with these requirements is usually easy and will help to provide many years of safe and trouble free operation of your installation.

Zoning ordinances, building codes and private deed restrictions are complex legal documents. If you question whether they apply to you, consult a local attorney. Five minutes spent in advance may save hours later.

Zoning ordinances, building codes and deed restrictions are local. If you move from city to city, these restrictions may change.

Zoning ordinances are concerned with the type of buildings or other structures you can erect in your neighborhood. In terms of towers and similar products, zoning laws will tell you if your property is zoned for such items, and if so, what height limitations, if any are involved.

Building codes are concerned with the safety of buildings or other structures permitted by local zoning ordinances. Building codes will tell you where on your property you can put the installation and the type of loading you will need to consider.

Both zoning and building codes are usually administered by the same governmental agency, often known as the Department of Building and Safety or the Zoning Board.

The following steps will help make sure you have a safe, legal installation.

1. Check with the local governmental agency. Ask whether your home is zoned for the type of product you wish to install.

- 2. Look at the actual zoning ordinances. Pay special attention to the definitions. Many zoning ordinances distinguish between "buildings" and "structures". Others distinguish between towers physically attached to the house, either by guy wires or mounting and towers that are not attached.
- 3. See if a building permit is required. If so, be sure to get one. They are usually quite inexpensive, often less than one percent of the cost of the tower. As part of the building permit, a local inspector will check and make sure that the base, guy wires, etc. meet local safety requirements. Properly manufactured commercially made towers are extremely safe and have a large safety margin, but only if you install them according to the directions! If a permit is required and not obtained, your home-owner's insurance may not insure the tower and you have given neighbors, who might object, a reason to require you to take the tower down.
- 4. In a limited number of cases, you may need either a zoning variance or a conditional use permit to erect a structure higher than the local zoning board requirements. If so, it is far easier to apply in advance than to put up the structure and apply later. Most local governments are quite cooperative if you apply in advance and follow their rules. Variance provisions are used to provide flexibility from dimensional regulations such as setback or height restrictions. Conditional use permits are used where towers or antennas are not otherwise allowed. A public hearing is usually required before such permits are issued.
- 5. In addition to local ordinances, real estate developers or homeowners' associations may impose their own requirements in a subdivision. These requirements are usually known as deed restrictions or Conditions, Covenants and Restrictions (CC&R).

If you are thinking of moving into a new area, ask for a copy of the deed restrictions in advance of signing an offer to purchase the property. If you already own a home, a local realtor, title insurance company or lawyer can obtain copies of the deed restrictions, if any, for you. Don't take the word of the realtor who may be wrong.

If there are no deed restrictions, you need only be concerned with local zoning and building codes. If there are deed restrictions, read them carefully. Look at the definitions. See if there are any restrictions on outside structures or if a local architectural control committee must pass on any additions or changes to your property.

Deed restrictions are legal documents. A local lawyer familiar with real estate law can read the restrictions in only a few minutes and advise you. Even if the deed restrictions prohibit or restrict the size of towers and similar products, they may be unenforceable if many of your neighbors have erected such products and no objections have been raised.



### **RECOMMENDATIONS FOR SPECIFYING** COMMUNICATION STRUCTURES

The basic standard for the design of steel antenna supporting structures is ANSI/TIA-222-G. Prior to issuing a specification, the specifying authority must have a working familiarity with this standard and its requirements. The following information is presented as the basis for preparing a tower specification.

**Location:** The tower is to be installed at (include site name, state and county).

Tower Requirements: The structure is to be guved/self-support/pole (circle one) with a normal overall structural height of feet. The tower is to be designed for a mph wind speed as defined by ANSI/TIA-222-G.

Ice loading shall be considered at inches per ANSI/TIA-222-G and mph wind speed.

The tower shall be designed to accommodate the following antenna loads: (At this point, please list all antennas, their mounting elevations, and transmission line requirements, providing as specific detail as possible. This should include microwave antenna azimuths, if known, and frequencies.)

Owner shall define structure class, exposure and topographic category (see pages 14-16).

The structure should be oriented on the property with one leg at degrees, true north. Provide orientation if there is a specific orientation required due to property restrictions or desired by the purchaser. (Does not apply to poles).

The following appurtenances shall be incorporated into design as required by ANSI/TIA-222-G. (Note which appurtenances are to be provided with the structure.)

- 1. Climbing Ladder
- 2. Safety Device
- 3. Rest/Working Platforms
- 4. Transmission Line Support Ladders/Brackets
- 5. Obstruction Warning Lights and/or Paint
- 6. Antenna Mounts
- 7. Ice Shields
- 8. Grounding Materials
- 9. Waveguide Bridge
- 10. Port Size / Location for Poles

ROHN recommends the following requirements be included in specifications for the benefit of the purchaser:

The vendor shall be a manufacturer, primarily and continuously involved in the design and production of communication towers for at least ten years.

In order to specifically define responsibilities, the vendor shall maintain in-house control over the design and fabricating functions. Subcontracting of these responsibilities will be cause for rejection of a vendor's proposal.

Each structural member shall be identified by a part number and all parts with the same part number must be interchangeable. This will result in tower sections capable of being installed in any 120 degree rotation. Match marking requirements of tower sections by the manufacturer, for proper assembly, shall not be acceptable.

Tower leg members shall utilize a 50 KSI minimum yield strength. Tubular leg members with flange splices shall maintain an open interior diameter through the flange plate at least as large as the inside diameter of the tube and shall be welded externally and internally. Flange leg connections shall utilize a minimum of four bolts per leg.

All fabricated tower members shall be hot-dip galvanized after fabrication per ASTM Standard A123. Hardware shall be galvanized per ASTM Standard A153 and B695. Other types of coatings are not acceptable.

Four sets of tower assembly drawings illustrating all component part numbers and their respective locations shall be provided. As a minimum, assembly drawing shall be accompanied by a letter sealed by a registered professional engineer licensed in the state in which construction is to be performed, certifying that the tower meets all design requirements per ANSI/TIA-222-G.

The tower manufacturer shall be an AISC Certified Fabricator and shall maintain the highest quality steel manufacturing standards for production. Only AWS Certified Welders shall be employed for tower fabrication. A fully qualified quality control department shall be employed with a guality control manual maintained to establish minimum acceptable fabrication standards, procedures and requirements for documentation.

With the use of ANSI/TIA-222-G and the procurement and user guidelines (Annex A), accompanied by the commentary noted above, a thorough specification can be developed.



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GEOTECHNICAL REPORT GUIDELINES-

### GUIDELINES FOR THE PREPARATION OF A GEOTECHNICAL REPORT

#### **I. PURPOSE AND INTENT**

- a) The intended purpose of these guidelines is to assist the customer and/or owner to retain the services of a Geotechnical Engineer.
- b) It is not ROHN's purpose or intent to supercede the Geotechnical Engineer's knowledge, judgement and/or experience. It is the Geotechnical Engineer's responsibility to add or delete from these items, based on local site conditions and other factors.
- c) Additional information is provided in ANSI/TIA-222-G Annex G "Geotechnical Investigations".

#### **II. DISCLAIMER**

a) ROHN will not accept any liability, either expressed or implied, for the use of, and omissions in, these guidelines.

#### **III. EXPLORATORY BORINGS**

- a) Borings should be taken at tower legs for self-supporting towers and at the base and anchor points for guyed towers. For small self-supporting towers, two borings may suffice. For large self-supporting towers, one boring should be taken at each tower leg. A "small" self-supporting tower is assumed to have a face width less than 20 feet and a compression load less than 50 kips per leg. For pole structures, one boring may suffice.
- b) The minimum boring depth should be 30 feet for pole structures, self-supporting towers and guyed tower bases. For guyed tower anchors, the minimum depth should be 15 feet. The actual depth of boring must be determined by the Geotechnical Engineer based on reactions, soil conditions and the type of foundation recommended.
- c) If borings cannot be advanced to the desired depth, rock corings should be taken. Rock Quality Designation (RQD) values and compressive strengths should be determined.

#### **IV. GEOTECHNICAL REPORT**

- a) The following properties, for each soil layer encountered, should be determined by field or laboratory testing and summarized in the geotechnical report:
  - 1. Soil classification and elevations
  - 2. Standard penetration values
  - 3. Unconfined compression strength
  - 4. Angle of internal friction
  - 5. Cohesion
  - 6."In-Situ" soil density and moisture content
  - 7. Rock quality designation (RQD) and percent rock sample recovered
  - 8. Other properties unique to site conditions
- b) The following items should be discussed in the geotechnical report:
  - 1. Geological description of site
  - 2. Observed and expected ground water conditions
  - 3. Expected frost penetration depth
  - 4. Corrosion potential of soil and corrosion protection recommendations
  - 5. Site access and potential construction difficulties
  - 6. Dewatering or site drainage requirements
  - 7. Backfill material recommendations
  - 8. Settlement considerations
  - 9. Additional information to aid foundation designer
  - 10. Recommended types of foundations
  - 11. Design parameters for uplift, download and lateral load
  - 12. Factor of safety considered when allowable vs. ultimate design parameters are provided
  - 13. Recommended construction techniques and inspections



## SAFETY INFORMATION

This information may save you from death or injury. Do not attempt to install or dismantle any ROHN products until you have read and understood the information in this document.

**Do not** attempt to install or dismantle ROHN products near any type of power line. Should your installation come into contact with power lines, you can be killed! Be sure your installation is out of falling distance of any overhead wires – including the lead to any building. Read all instructions carefully before you begin, or better yet, call a professional – it may save your life.



ROHN's ACWS sign must be attached to all poles, towers, guyed mast bases in a location which is conspicuous and readable from the ground so that all personnel are notified and warned. Aluminum wire is furnished for attaching signs. ROHN recommends you check frequently to make sure the sign has not been removed. These 6" x 9" signs may be ordered, specify part number ACWS.

*Tower Erectors – Please see that these signs are attached per the instructions above before leaving the site.* 

Guyed and bracketed towers are not self-supporting at any height. When installing or dismantling a guyed tower always consult your local tower installer. The condition of a used tower is difficult to determine and in the process of dismantling you could be killed or injured. Dismantling and installation may require the use of temporary steel guys.

#### **General Information & Precautions**

ROHN field technicians, warning labels, catalogs, guy charts, etc. are available from ROHN. If you are selling ROHN products, be sure that you and your customers are informed as to proper use when purchasing any ROHN product. All towers, masts and poles should be installed or dismantled by experienced and trained personnel.

#### **Mixing of Products**

The mixing of so-called interchangeable copies of ROHN products with ROHN products is dangerous and voids all engineering or warranty data supplied by ROHN. Materials used by the so-called copies are not the same quality and have not been tested or engineered by ROHN.

#### Who should install or Dismantle ROHN Products?

Installing, dismantling and rigging ROHN products requires specialized skills and experience. Information supplied by ROHN assumes that all products will be installed or dismantled by personnel having these skills and having worked with similar products before. No one should attempt to install or dismantle ROHN products without these skills and experience. ROHN assumes no liability if faulty or dangerous practices are used. There are available trained and experienced personnel to assist in installation, maintenance, and disassembly. Contact your local installer if consultation or assistance is required.

#### What about used material?

ROHN does not recommend or warrant in any way the use of used materials. The use of used materials voids all warranties set forth by ROHN because no one knows if the used material has been misused, overloaded, or damaged. If, for some reason, materials are re-used, all new, galvanized, high strength bolt assemblies must be used.

#### **General Precautions**

Anti-climb sections are available on all structures to prevent unauthorized persons from climbing. Installation and dismantling may require the use of temporary steel guys. All installations must be grounded per local and national codes. All types of installations must be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to ensure safety and proper performance. ROHN makes available many items, which may or may not be required for your particular installation. Some items available in various types and sizes are: safety climbing devices, ladders, safety cages, anti-climb devices, work platforms, F.A.A. painting and lighting, grounding, and fencing. Special product services and special packaging are also available. Based on local, state, or federal laws and building codes for your area, it may be necessary for your particular installation to have special items or be given special consideration. If there are any special requirements for your particular installation, be sure to include them in your request for quotation and on your order form. ROHN cannot be responsible for any omission at any time.



SAFETY INFORMATION-

## SAFETY INFORMATION

#### About OSHA

In accordance with the Occupational Safety and Health Act regulations, parts are available incorporating features, which will permit a safe product. It is a policy of ROHN Products to design and make our products safe to use without hazards to people and/or property. We ask that you list specific requirements you wish us to comply with in accordance with the intended use of a product. These requirements may or may not affect the price of the materials and equipment under consideration for purchase. We would be happy to answer any additional questions you may have.

#### **About Step Bolts**

Structures may or may not include step bolts. Step bolts are supplied as a convenience during construction. Step bolts are intended to be climbed by professional Competent Climbers only. 100% Fall protection is required at all times. Climber safety devices are required on all structures 10 ft. or greater in height. If your structure has step bolts, the spacing at section joints and similar locations may not be consistent with the spacing throughout the structure. Flange plates, guys, attachments to legs, appurtenances, etc. may be an obstruction to continuous climbing. Climbing step bolts is dangerous and can cause serious injury or death. Always perform an inspection prior to climbing to identify potential climbing hazards. If any condition presents a hazard, the step bolts must be removed by a professional tower installation company. ROHN will not be responsible for the use of step bolts. If you wish to use step bolts, the responsibility for their use will be totally yours or your customers.

#### **Installation & Dismantling Safety Instructions**

Each year people are killed, mutilated, or receive severe permanent injuries when attempting to install or dismantle towers, poles, and other structures. In many of these cases, the victim was aware of the dangers of electrocution but did not take adequate steps to avoid the hazard. Good practice is to install your products away from power lines and obstructions. Your dealer carries a complete line of installation and grounding hardware. For your safety and to help you achieve a safe installation, please read and follow the safety precautions below. They may save your life! Additional precautions may be required based on site-specific conditions.

- 1. If you are not experienced in installing or dismantling, please, for your own safety as well as others, seek professional assistance. Consult your dealer.
- 2. Select your installation site with safety, as well as performance, in mind. REMEMBER: Power lines and phone lines look alike. For your safety, assume that any overhead lines can kill you.
- 3. Call your power company. Tell them your plans and ask them to look at your site. This is little inconvenience, considering your life is at stake.
- 4. Before you begin, plan your installation or dismantling procedure carefully. Successful installation or dismantling is largely a matter of coordination. Each person should be assigned to a specific task and should know what to do and when to do it. One person should be designated as the "boss" to call out instructions and watch for signs of trouble.
- 5. When installing or dismantling, REMEMBER: Do not use a metal ladder. Do not work on a wet or windy day or if a thunderstorm is approaching. Do dress properly shoes with rubber soles and heels, rubber gloves, long sleeve shirt or jacket, and a hard hat and safety glasses.
- 6. If the assembly starts to drop, get away from it and let it fall. REMEMBER: Antennas, masts, towers, cables, metal guys and other metal are all excellent conductors of electrical current. Even the slightest touch of any of these parts to a power line completes an electrical path through the installer!
- 7. If any part of the assembly should contact a power line Don't touch it or try to remove it yourself. Call your local power company. They will remove it safely.
- 8. If an electrical accident should occur don't grab hold of the person in contact with the power line or you too may be electrocuted. Use a dry board, stick or rope to push or pull the victim away. Have someone call for medical help.



**TERMS & CONDITIONS** 

1. All quotation, proposals, prices, or other terms are made for acceptance within 30 days (after 30 days, prices in effect at time of shipment will apply) and shipment within 30 days of purchase order date, unless otherwise stated. They are subject to change without notice; however, ROHN invites your request for an extension. They are also subject to Credit and Marketing Department approval prior to acceptance. No other price protection is available.

2. Every effort will be made to maintain shipping schedules, either on ROHN equipment or via common carrier. ROHN cannot be responsible for delays in shipping caused by state or local agencies with regard to permits, routing, weather, detours, etc. All deliveries and schedules are contingent on availability of raw materials, fuel, and transportation. ROHN will not be liable for damages on account of any delays or abnormalities caused in shipping due to causes beyond our reasonable control. ROHN reserves the right to make partial shipments and to submit invoices accordingly.

Changes or modifications to orders can be made only by written agreement executed by all parties affected thereby, which agreement shall include any price modification.

4. ROHN's responsibility ceases upon delivery of all shipments to the carrier. The unloading of all shipments is the responsibility of the Buyer, not the carrier or ROHN. Buyer is warned against receipting for merchandises until careful inspection has been made. Any claim made against ROHN must be made within 90 days after receipt of merchandise. All merchandise leaving ROHN's factory has been carefully inspected and ROHN does not assume responsibility for damages or shortages which occur in transit. Buyer must make all claims and report all damages and losses to the delivering transportation company.

5. No federal, state, or local taxes are included in quoted prices. All quotations, proposals, prices, or other terms are subject to increase without notification by the amount of any sales, excise, or other tax levied or charged to seller by any governmental agency and any such tax will be passed onto purchaser as a tax or as an addition to the selling price. This also applies to all costs incurred due to local statutes or governmental regulations.

6. Orders are not subject to cancellation by Buyer except by written agreement with seller. Any order canceled, after any work has been done by ROHN, such as drawings, production, etc., will have a cancellation charge, to be determined solely at the discretion of ROHN for whatever work has been performed with a minimum of 25% of the purchase order price. If Buyer so chooses, he shall have the right to receive the material already performed at time of cancellation at the quoted price. If an order is canceled before any work has been done by ROHN, a \$200 cancellation charge will apply.

7. Material received may not be returned by Buyer except by written agreement with seller. In all cases, permission must be secured from ROHN prior to the returning of any goods for credit. All returned goods are subject to a minimum service charge of 25%, plus all transportation charges, and are subject to inspection by ROHN. Returned goods will be offered and paid for only upon proof of purchase (i.e. invoice no.) and credit will be issued against invoice value. ROHN reserves the sole right to determine amount of credit to be issued on all goods returned for credit. Only standard, currently manufactured ROHN products may be considered for return and credit. Unsaleable products will be scrapped and no credit will be received. If returned goods are determined to have no value and Buyer wishes them returned, the Buyer will be charged return freight. Safety equipment, erection equipment, insulators, transformers, nuts and bolts are not returnable.

8. ROHN warrants the commercial items of its manufacture only, to be reasonably fit for the purpose for which they are manufactured and sold, provided, however, that this warranty shall be effective only if purchaser installs all material according to ROHN's recommendations and specifications and that purchaser during the warranty period shall regularly, not less than semi-annually, inspect and properly maintain all items. Any item found unfit for its purpose within 12 months from date of delivery will be repaired or replaced free of charge, F.O.B. ROHN's plant. ROHN shall be immediately notified in writing of such unfitness. ROHN reserves the sole right to determine if any material is to be repaired or replaced free of charge or to be supplied at ROHN's standard prices. Such obligation shall be limited to parts returned for inspection, properly packed and expenses prepaid, and providing inspection shall satisfactorily indicate defects. The warranty herein made is in lieu of all other warranties and, except as expressly stated herein, ROHN does not make and there are no warranties or obligations of any kind or nature whatsoever either expressed or implied including, but not restricted to, warranty or obligations as to product, material, workmanship, or manufacture or as to the use of the items covered hereby. ROHN shall not under any circumstances be liable to third persons for any claims for damages including direct, special, indirect, or consequential damages for any reason. The Buyer agrees to indemnify and to hold ROHN harmless for, of, and from any loss, claims, damages, expenses and attorney's fees, including but not limited to, any fines, penalties and corrective measures ROHN may sustain by reason of Buyer's failure to comply with said laws, rules, and regulations in connection with the performance of this sale. The above warranty warranted applies only to items manufactured by ROHN. Items not manufactured by ROHN are guaranteed only to the extent and in the manner warranted and guaranteed to ROHN by the manufacturer of

such items and then only to the extent ROHN is liable to enforce such warranty or guarantee. ROHN will assume no responsibility for the adequacy of any product if material is used which is not totally supplied by ROHN. The above sets forth the only warranty made by ROHN in connection with items manufactured or sold by it, and any provisions in any proposals, specifications, advertising, or other provisions hereof, are merely descriptive and are not to be construed as warranties made by ROHN. All warranties are void on drawings made by others, whether by a professional engineer, sealed or not, that are not rechecked by ROHN and approved by ROHN. ROHN assumes no liability for the adequacy of the drawings or the product. Without limiting the generality of the foregoing, the Buyer hereby indemnifies ROHN and hold ROHN harmless from any and all claims and/or damages (including direct, special, indirect or consequential damages, attorneys' fees and costs) relating to or arising out of any highway structure or component not designed by ROHN. ROHN hereby disclaims any and all warranties, including express or implied warranties of merchantability and fitness for any particular purpose, relating to or arising out of metal fatigue.

9. ROHN reserves the right to change or modify the product and construction of any product manufactured by ROHN and to substitute material equal to or superior to that originally specified.

10. Buyer agrees not to disclose or make available to any third party processes, drawings, specifications, reports, photographs, data and other technical or proprietary information relating to ROHN products without obtaining prior written consent of ROHN.

11. No proposal, order, quotation, or acceptance may be changed or varied by verbal agreement, and all orders are accepted only under the provisions set forth herein.

12. Purchase orders and requests for quotations must be submitted in writing to ROHN. It is the responsibility of the Buyer or Buyer Representative to provide ROHN design criteria (environmental loads, equipment loads, operational limitations, geotechnical information, etc.) based on site-specific data. In designing the product for the Buyer, ROHN is relying solely and entirely on design criteria provided by the Buyer to ROHN. Without limiting the generality of the indemnities in these Terms & Conditions, the Buyer hereby indemnifies ROHN and holds ROHN harmless from and against any and all claims and/or damages (including direct, special, indirect or consequential damages, attorneys' fees and costs) relating to or arising out of any inaccuracy or incompleteness in design criteria provided to ROHN by the Buyer, and the Buyer waives all claims against ROHN for same.

13. If outside source inspection, assembly, etc. is required prior to shipment of an order, \$50.00 per man hour (plus equipment time, if applicable) is chargeable, with \$300.00 as a minimum.

14. Any welding inspection required by Buyer or Buyer's specifications must be done at ROHN's plant prior to packing and shipment of material from ROHN's plant.

15. A minimum charge of \$25.00 will be billed for special handling and preparation of material for air shipments.

16. ROHN reserves the right to apply all remittances and credit memos to the oldest outstanding balance in your account. No credits will be issued for any reason against a purchase order whose billing is more than 90 days old. Buyer corrections or complaints must be made within this period of time.

17. Standard catalog prices do not include special drawings or product evaluations. If any are required, there will be a charge.

18. ROHN at all times reserves the right to take pictures of any or all of its products after installation for advertising purposes, except those which are under classified governmental control.

19. The Buyer will be responsible for any extra charges incurred on prepaid shipments.

20. A service charge not to exceed 2% per month or maximum allowable per State law will be billed on all accounts not paid within 30 days of invoice date.

21. Minimum total net worth of merchandise which can be ordered is \$100.00. Any orders placed for less will be billed at \$100.00.

22. Storage charges will be .02% of invoice amount per day with a minimum charge of \$8.00 a day. These charges will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from ROHN, that the material was available for shipment.

23. All CIA requirements must be met with certified checks or money orders to insure prompt shipment.

24. All expenses incurred by ROHN during any collection effort shall be charged to the Buyer.

25. There will be a minimum of a \$100 fee per truck or container, for ROHN to receive, handle and pack for reshipment, any material not purchased through ROHN, but drop shipped to ROHN for shipment with a ROHN structure. This includes light kits, platforms, mounts, rigging equipment, etc. that is provided by others. There will be a minimum \$250 per truck or container for those drop shipped items that must be handled with ROHN forklifts or other mechanical device.







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The information contained in this catalog does not purport to cover all details or variations in equipment nor provide for every possible contingency to be met in connection with installation, operation or maintenance. ROHN assumes no obligation to revise any of the information contained in this catalog if changes are made in criteria or evaluation techniques at a later date. Should particular situations arise which are not covered sufficiently herein for the purchasers' purposes, the matter should be deferred to ROHN.

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All installations must be grounded per local and national codes.

The mixing of so-called interchangeable copies of ROHN products is dangerous and voids all data or warranty supplied by ROHN. Materials used by others are not the same quality and have not been tested or checked by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger lives and cause serious failures and financial misfortune for all concerned.



#### **Manufacturing Locations:**

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#1 Fairholm Avenue Peoria, IL 61603

#### **Mailing Address:**

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