

Santo Domingo, D.N.
8 Diciembre 2021**A: Departamento de Licitaciones, Junta Central Electoral****Asunto: REF. JCE-CCC-CP-2021-0028****De: Consultores & Asesores Tecnológicos SRL**

Distinguidos miembros departamento de licitaciones:

A continuación, los datos generales y documentos de soporte del BIEN QUE ENTREGAREMOS para este sorteo. EN LA HOJA DE DETALLES DE OFERTA colocamos todos los puntos para mayor facilidad en sus análisis y de manera puntual aquí destacamos los puntos convenientes de nuestra parte para la realización del trabajo.

- 1- Estamos optando por la torre galvanizada en caliente 55G en lugar de 25 G, esto porque de esta manera podemos ofertar una estructura que sea más adecuada a las necesidades actuales que tienen en el AREA DE TRANSMISION DE DATOS y más importante aún que les permita manejar mejores cargas (equipos -antenas, en la estructura).
- 2- Estaremos realizando un aterrizaje mallado (tanto en la cima para asegurar el buen funcionamiento del pararrayos como del aterrizaje en la base donde tendremos una malla adicional de protección para la estructura.
- 3- Estamos presentando un sistema de pararrayos nuevo en la instalación.
- 4- Escalerilla para recorrido de cables (guía en la estructura).
- 5- Tendremos 6 secciones de torre de 10 pies cada uno con los colores estipulados por ustedes.
- 6- Colocaremos la luz estroboscópica que podrá ser vista en la noche de acuerdo a las normas de telecomunicaciones TIA/EIA.
- 7- Estaremos construyendo una base de hormigón/cemento para aportar mayor seguridad y estabilidad a la torre.

Sirva esta carta como parte del soporte en que anexamos en este sobre.

FORMULARIO DE INFORMACION DE OFERENTE

- **REGISTRO DE PROVEEDOR DEL ESTADO**
- **CERTIFICACION DGII DE CUMPLIMIENTO DE OBLIGACIONES.**
- **ANEXOS SOPORTE DE LA ESTRUCTURA.**

*****Contestando a las informaciones de OFERTA TECNICA EN ESTE SOBRE A**

Con la orden recibida tiempo de entrega 15 a 20 días + 2 semanas de ejecución (instalación y desmonte torre actual). (Puede ser 1 semana menos pero colocamos este margen ya que se acerca el fin de año y desconocemos sus trabajos y horarios para esas fechas).

***** Esta oferta la podemos mantener por 30 días.**

***** Garantía de 6 años.**

Agradecido de su atención, reiterándonos a las ordenes les saluda sin otro particular,



Ing. Jorge Luis Pimentel, MBA & Operations
Presidente CariTec –Consultores & Asesores Tecnológicos.





STANDARD 55G GUYED TOWER

ROHN 55G
The first. The original.



55G



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® cross members
- Each section contains all required nuts and bolts shipped with section
- Continuous solid round steel bracing

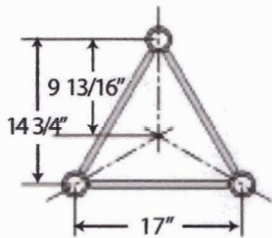
CAUTION

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.

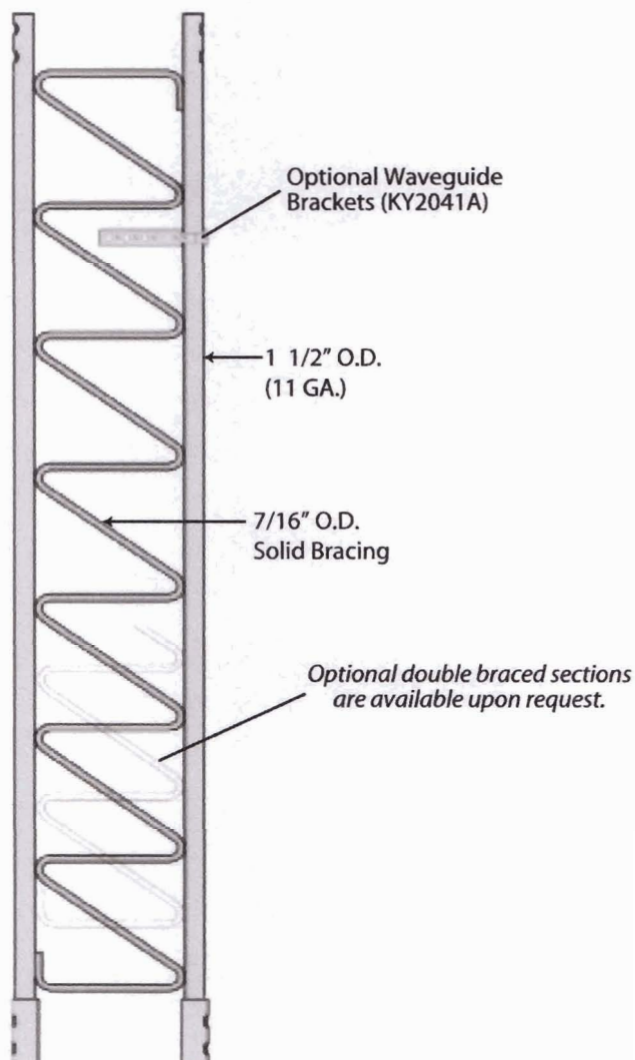


STANDARD 55G GUYED TOWER SECTIONS

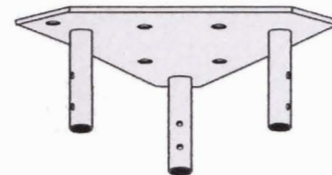


QUICK REFERENCE

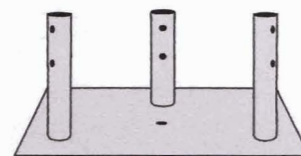
PARTS & ACCESSORIES	PAGES 115-116
GROUNDING INFORMATION	PAGE 117
FOUNDATION INFORMATION	PAGES 117-120



STANDARD SECTION
55G - 10' Section



TOP PLATE
APL55G
FOR MOUNTING BEACON OR LIGHTNING ROD.
TOP PLATE BOLTS TO THE TOP OF
A STANDARD SECTION.



CONCRETE BASE PLATE
BPC55G*
FOR USE WITH 3/4X12PP PIER PIN
EMBEDDED IN CONCRETE.

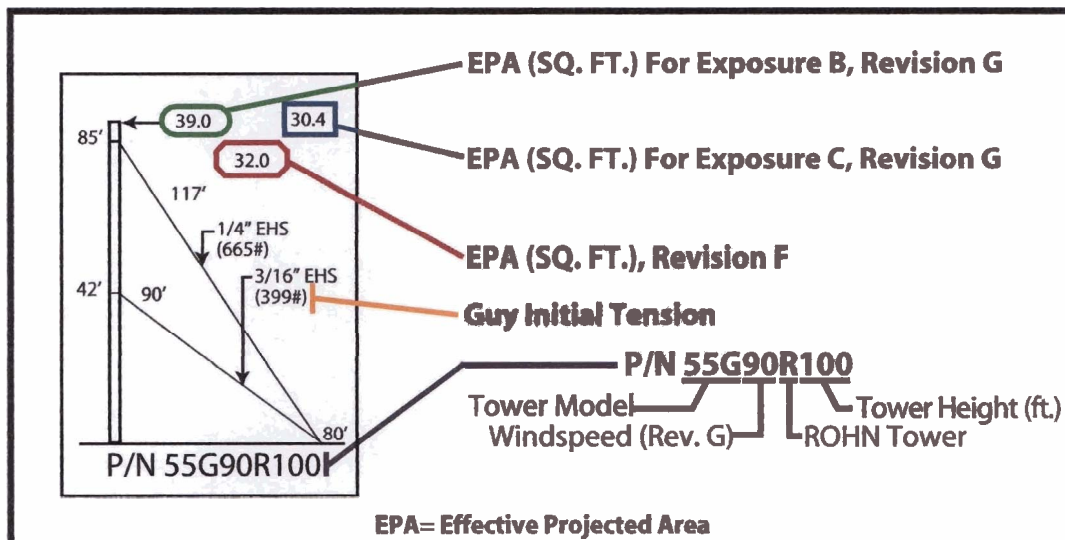
Additional base sections are
available, please see page 115.

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



BUYERS GUIDE STANDARD DESIGNS - 55G 90MPH REV. G [3 SECOND GUST] 70MPH REV. F [FASTEST MILE]

Design Criteria



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.

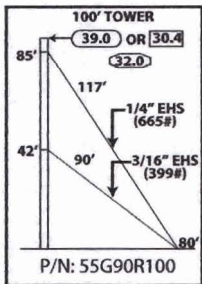
FOR FOUNDATION INFORMATION, PLEASE SEE PAGES 117-120.

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



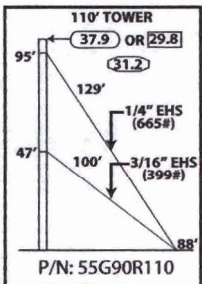
STANDARD DESIGN - 55G

90 MPH REV. G, 70MPH REV. F



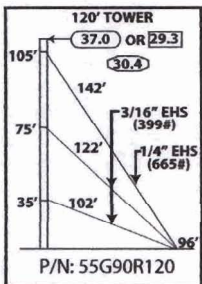
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS		
					BASE	ANCHOR	
	10	1	1	2	CB1G	AB2	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH	1/2TBE&J
	300'	375'	6	6	6	6	6
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75	TBSAFETY	3/4x12PP	
	3	1	3	3	3	1	

100' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R100



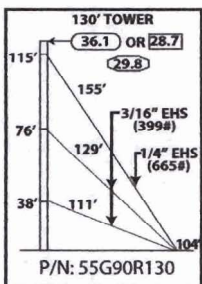
TOWER PARTS INCLUDED	55G		BPC55G		APL55G		GA55GD		FDNS					
									BASE	ANCHOR				
	11		1		1		2		CB1G	AB2				
GUYS & CONNECTIONS INCLUDED	3/16EHS		1/4EHS		BG2142		BG2144		5/16THH		3/8THH		1/2TBE&J	
	325'		425'		6		6		6		6		6	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP		AGK1GGX		BGK2GGX		CPC.5/.75		TBSAFETY		3/4x12PP			
	3		1		3		3		3		1			

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



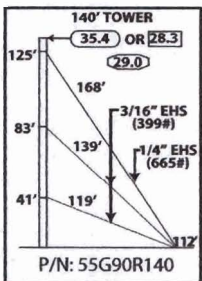
TOWER PARTS INCLUDED	55G		BPC55G		APL55G		GA55GD		FDNS			
									BASE	ANCHOR		
	12		1		1		3		CB1G	AB2		
GUYS & CONNECTIONS INCLUDED	3/16EHS		1/4EHS		BG2142		BG2144		5/16THH		3/8THH	1/2TBE&J
	725'		475'		12		6		12		6	9
ANCHORS & GROUNDING INCLUDED	GAC3455TOP		AGK1GGX		BGK2GGX		CPC.5/.75		TBSAFETY		3/4x12PP	
	3		1		3		3		3		1	

120' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R120



TOWER PARTS INCLUDED	55G		BPC55G		APL55G		GA55GD		FDNS					
									BASE	ANCHOR				
	13		1		1		3		CB1G	AB2				
GUYS & CONNECTIONS INCLUDED	3/16EHS		1/4EHS		BG2142		BG2144		5/16THH		3/8THH		1/2TBE&J	
	775'		500'		12		6		12		6		9	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP		AGK1GGX		BGK2GGX		CPC.5/.75		TBSAFETY		3/4x12PP			
	3		1		3		3		3		1			

130' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R130

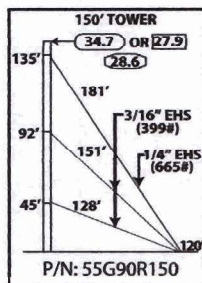


TOWER PARTS INCLUDED	55G		BPC55G		APL55G		GA55GD		FDNS			
									BASE	ANCHOR		
	14		1		1		3		CB1G	AB2		
GUYS & CONNECTIONS INCLUDED	3/16EHS		1/4EHS		BG2142		BG2144		5/16THH		3/8THH	1/2TBE&J
	825'		550'		12		6		12		6	9
ANCHORS & GROUNDING INCLUDED	GAC3455TOP		AGK1GGX		BGK2GGX		CPC.5/.75		TBSAFETY		3/4x12PP	
	3		1		3		3		3		1	

140' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R140



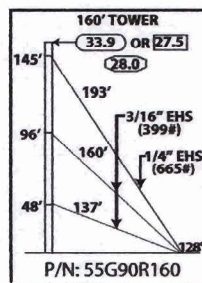
STANDARD DESIGN - 55G 90MPH REV. G, 70MPH REV. F



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS		
					BASE	ANCHOR	
	15	1	1	3	CB2G	AB2	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH	1/2TBE&J
	900'	600'	12	6	12	6	9
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75	TBSAFETY	3/4x12PP	
	3	1	3	3	3	1	

150' ROHN 55G

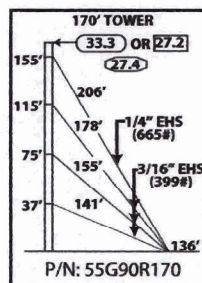
All parts shown in table are included when ordering
Part No: 55G90R150



TOWER PARTS INCLUDED	55G		BPC55G	APL55G	GA55GD	FDNS	
						BASE	ANCHOR
	16		1	1	3	CB2G	AB2
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH	1/2TBE&J
	950'	625'	12	6	12	6	9
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75	TBSAFETY	3/4x12PP	
	3	1	3	3	3	1	

160' ROHN 55G

All parts shown in table are included when ordering
Part No: 55G90R160



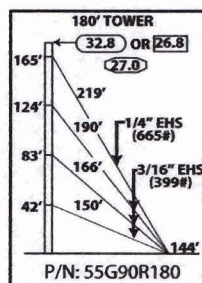
TOWER PARTS INCLUDED	55G		BPC55G	APL55G	GA55GD	FDNS	
						BASE	ANCHOR
	17	1	1	4	CB2G	AB2	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH	1/2TBE&J
	1525'	675'	18	6	18	6	12
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75	TBSAFETY	3/4x12PP	
	3	1	3	3	3	1	

170

All parts table with Part

170' ROHN 55G

All parts shown in table are included when ordering
Part No: 55G90R170



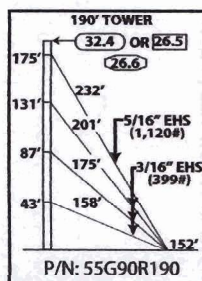
TOWER PARTS INCLUDED	55G		BPC55G	APL55G	GA55GD	FDNS	
	18		1	1	4	BASE	ANCHOR
						CB2G	AB2
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH	1/2TBE&J
	1625'	700'	18	6	18	6	12
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/.75	TBSAFETY		3/4x12PP
	3	1	3	3	3		1

180

All parts table with Part

180' ROHN 55G

All parts shown in table are included when ordering
Part No: 55G90R180



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS		
					BASE	ANCHOR	
	19	1	1	4	CB2G	AB3	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2146	5/16THH	7/16THH	5/8TBE&J
	1700'	750'	18	6	18	6	12
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP	
	3	1	3	3	3	1	

190

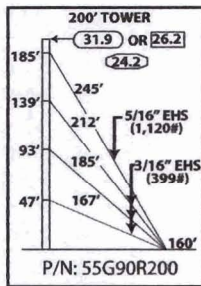
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190' ROHN 55G

All parts shown in table are included when ordering
Part No: 55G90R190

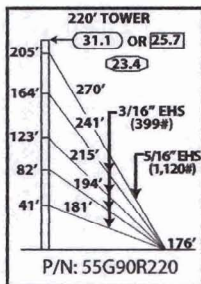


STANDARD DESIGN - 55G 90MPH REV. G, 70MPH REV. F



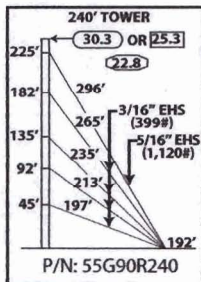
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	20	1	1	4	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	142265	BG2142	BG2146	5/16THH	7/16THH 5/8TBE&J
	1800'	800'	18	6	18	6 12
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

200' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R200



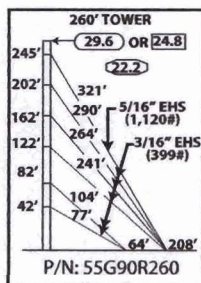
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	22	1	1	5	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	142265	BG2142	BG2146	5/16THH	7/16THH 3/4TBE&J
	2650'	875'	24	6	24	6 15
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

220' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R220



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	24	1	1	5	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	142265	BG2142	BG2146	5/16THH	7/16THH 3/4TBE&J
	2900'	950'	24	6	24	6 15
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

240' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R240

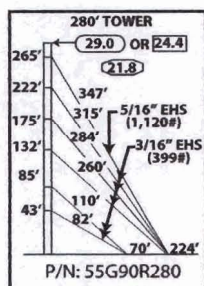


TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	26	1	1	6	CB3G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	142265	BG2142	BG2146	5/16THH		
	3125'	1025'	30	6	30		
	7/16THH	1/2TBE&J	5/8TBE&J	CPC.5/75	CPC1/1.25		
	6	6	12	3	3		
ANCHORS & GROUNDING INCLUDED	GAC345TOP	GAC555TOP	AGK1GGX	BGK2GGX	TBSAFETY	3/4x12PP	
	3	3	2	3	6	1	

260' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R260

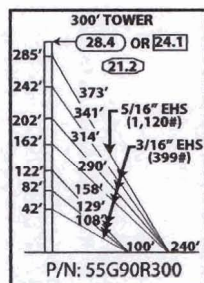


STANDARD DESIGN - 55G 90MPH REV. G, 70MPH REV. F



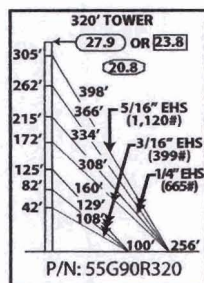
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	28	1	1	6	CB4G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	142265	BG2142	BG2146	5/16THH		
	3350	1125'	30	6	30		
	7/16THH	1/2TBE&J	5/8TBE&J	CPC.5/.75	CPC1/1.25		
	6	6	12	3	3		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP		AGK1GGX	BGK2GGX	TBSAFETY	3/4x12PP	
	3	3	2	3	6	1	

280' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R280



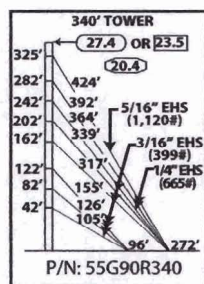
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	30	1	1	7	CB4G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	142265	BG2142	BG2146	5/16THH		
	4275'	1200'	36	6	36		
	7/16THH	1/2TBE&J	5/8TBE&J	CPC.5/.75	CPC1/1.25		
	6	9	12	3	3		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	TBSAFETY	3/4x12PP	
	3	3	2	3	6	1	

300' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R300



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	32	1	1	7	CB4G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146	
	2250'	2250'	1275'	24	12	6	
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY	
	24	12	6	9	12	6	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/.75	CPC1/1.25	3/4x12PP
	3	3	2	3	3	3	1

320' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R320

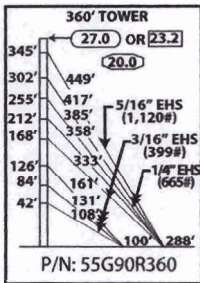


TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	34	1	1	8	CB4G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146	
	3325'	2425'	1350'	30	12	6	
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY	
	30	12	6	9	15	6	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/.75	CPC1/1.25	3/4x12PP
	3	3	2	3	3	3	1

340' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R340

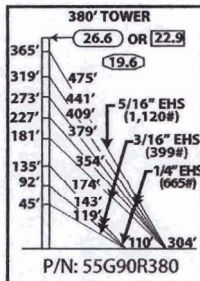


STANDARD DESIGN - 55G 90MPH REV.G, 70MPH REV. F



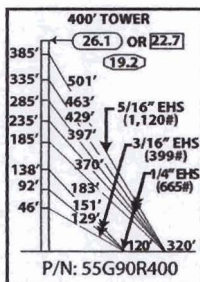
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	APL1258UM	BASE	INNER ANCHOR	OUTER ANCHOR
	36	1	1	8	2	CB5G	AB2	AB4
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146		
	3475'	2575'	1450'	30	12	6		
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY		
	30	12	6	9	15	6		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/75	CPC1/1.25		
	3	3	2	3	3	3		

360' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R360



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	APL1258UM	BASE	INNER ANCHOR	OUTER ANCHOR
	38	1	1	8	2	CB5G	AB2	AB4
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146		
	3175'	3275'	1525'	24	18	6		
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY		
	24	18	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	

380' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R380

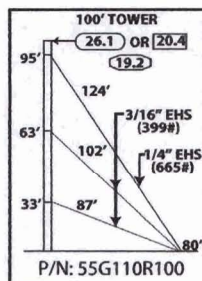


TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	APL1258UM	BASE	INNER ANCHOR	OUTER ANCHOR
	40	1	1	8	2	CB5G	AB2	AB4
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146		
	2075'	4700'	1600'	18	24	6		
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY		
	18	24	6	9	15	6		
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/75	CPC1/1.25	3/4x12PP	
	3	3	2	3	3	3	1	

400' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G90R400

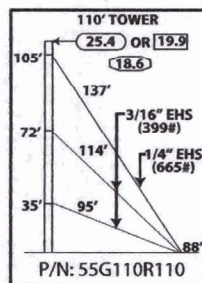


STANDARD DESIGN - 55G 110MPH REV.G, 90MPH REV. F



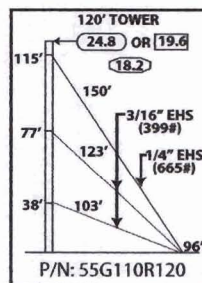
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	10	1	1	3	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH
	600'	400'	12	6	12	6
ANCHORS & GROUNDING INCLUDED	GAC345TOP	AGK1GGX	BGK2GGX	CPC.5/75	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

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



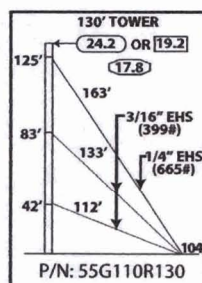
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	11	1	1	3	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH
	675'	450'	12	6	12	6
ANCHORS & GROUNDING INCLUDED	GAC345TOP	AGK1GGX	BGK2GGX	CPC.5/75	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

110' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R110



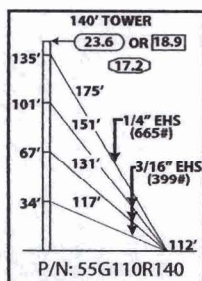
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	12	1	1	3	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH
	725'	500'	12	6	12	6
ANCHORS & GROUNDING INCLUDED	GAC345TOP	AGK1GGX	BGK2GGX	CPC.5/75	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

120' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R120



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	13	1	1	3	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH
	800'	525'	12	6	12	6
ANCHORS & GROUNDING INCLUDED	GAC345TOP	AGK1GGX	BGK2GGX	CPC.5/75	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

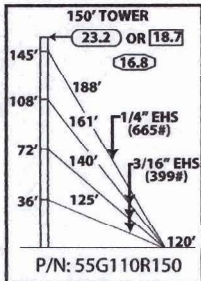
130' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R130



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	14	1	1	4	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH
	1275'	575'	18	6	18	6
ANCHORS & GROUNDING INCLUDED	GAC345TOP	AGK1GGX	BGK2GGX	CPC.5/75	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

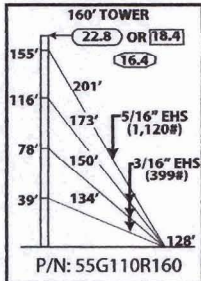
140' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R140

STANDARD DESIGN - 55G 110MPH REV.G, 90MPH REV. F



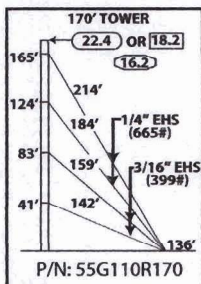
TOWER PARTS INCLUDED	55G		BPC55G		APL55G		GA55GD		FDNS		
									BASE	ANCHOR	
	15		1		1		4		CB2G	AB3	
GUYS & CONNECTIONS INCLUDED	3/16EHS		1/4EHS	BG2142	BG2144	5/16THH	3/8THH	5/8TBE&J			
	1375'		600'	18	6	18	6	12			
ANCHORS & GROUNDING INCLUDED	GAC555TOP		AGK1GGX		BGK2GGX		CPC1/1.25		TBSAFETY		3/4x12PP
	3		1		3		3		3		1

150' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R150



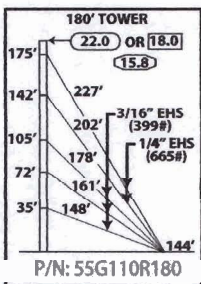
TOWER PARTS INCLUDED	55G		BPC55G		APL55G		GA55GD		FDNS	
									BASE	ANCHOR
	16		1		1		4		CB2G	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS		142265	BG2142	BG2146	5/16THH	7/16THH	5/8TBE&J		
	1475'		650'	18	6	18	6	12		
ANCHORS & GROUNDING INCLUDED	GAC555TOP		AGK1GGX		BGK2GGX		CPC1/1.25		TBSAFETY	
	3		1		3		3		3	
									3/4x12PP	
									1	

160' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R160



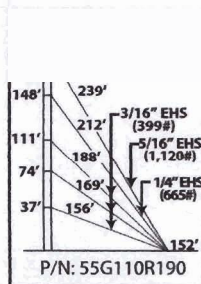
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS		
					BASE	ANCHOR	
	17	1	1	4	CB2G	AB3	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH	5/8TBE&J
	975'	1275'	12	12	12	12	12
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP	
	3	1	3	3	3		1

170' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R170



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS		
					BASE	ANCHOR	
	18	1	1	5	CB3G	AB3	
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	BG2142	BG2144	5/16THH	3/8THH	5/8TBE&J
	1550'	1375'	18	12	18	12	15
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TESA	FETY	3/4x12PP
	3	1	3	3	3		1

180' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R180

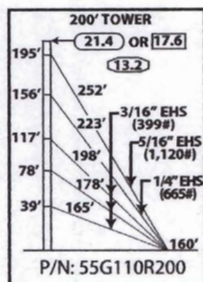


TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
					BASE	ANCHOR
	19	1	1	5	CB3G	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	1650*	675*	775*	18	6	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	
	6	18	6	6	15	
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

190' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R190



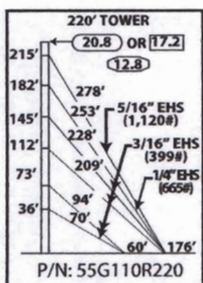
STANDARD DESIGN - 55G 110MPH REV.G, 90MPH REV. F



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	20	1	1	5	BASE	ANCHOR
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	CB3G	AB3
	1750'	725'	825'	18	BG2144	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	
	6	18	6	6	15	
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

200' ROHN 55G

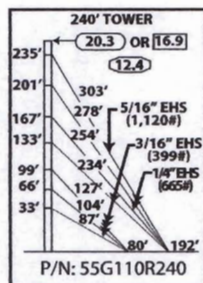
All parts shown in table are included when ordering
Part No: 55G110R200



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	22	1	1	6	CB4G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144		BG2146
	1925'	825'	900'	24	6	6	
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY	
	24	6	6	6	12	6	
ANCHORS & GROUNDING INCLUDED	GAC345TOP	GAC555TOP	AGK1GGX	BGK2GGX	CPC.5/1.75	CPC1/1.25	3/4x12PP
	3	3	2	3	3	3	1

220' ROHN 55G

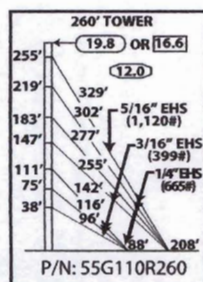
All parts shown in table are included when ordering
Part No: 55G110R220



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	24	1	1	7	CB4G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144		BG2146
	1775'	1700'	975'	24	12	6	
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY	
	24	12	6	9	12	6	
ANCHORS & GROUNDING INCLUDED	GAC345TOP	GAC555TOP	AGK1GGX	BGK2GGX	CPC.5/1.75	CPC1/1.25	3/4x12PP
	3	3	2	3	3	3	1

240' ROHN 55G

All parts shown in table are included when ordering
Part No: 55G110R240



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	26	1	1	7	CB5G	AB2	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144		BG2146
	1500'	2300'	1050'	18	18	6	
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY	
	18	18	6	9	12	6	
ANCHORS & GROUNDING INCLUDED	GAC345TOP	GAC555TOP	AGK1GGX	BGK2GGX	CPC.5/1.75	CPC1/1.25	3/4x12PP
	3	3	2	3	3	3	1

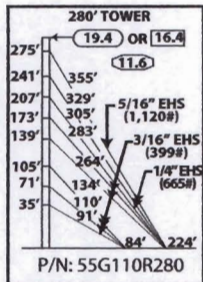
260' ROHN 55G

All parts shown in table are included when ordering
Part No: 55G110R260



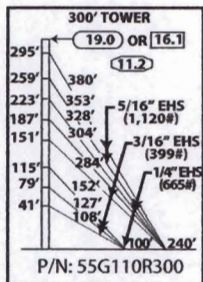
STANDARD DESIGN - 55G

110MPH REV.G, 90MPH REV. F



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	28	1	1	8	CB5G	AB2	AB4
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146	
	2825'	2025'	1150'	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.5/1.75	CPC1/1.25	3/4x12PP
	3	3	2	3	3	3	1

280' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R280

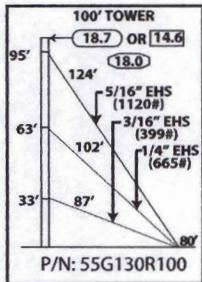


TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	BASE	INNER ANCHOR	OUTER ANCHOR
	30	1	1	8	CB5G	AB2	AB4
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	BG2146	
	1675'	2500'	2350'	18	18	12	
	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J	TBSAFETY	
	18	18	12	9	15	6	
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	GAC5655TOP	AGK1GGX	BGK2GGX	CPC.5/1.75	CPC1/1.25	3/4x12PP
	3	3	2	3	3	3	1

300' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G110R300

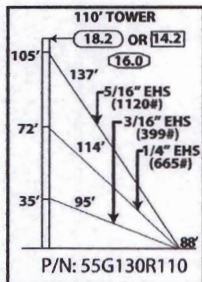


STANDARD DESIGN - 55G 130MPH REV.G, 110MPH REV. F



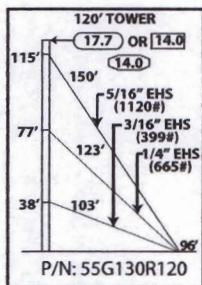
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
					BASE	ANCHOR
	10	1	1	3	CB2G	AB2
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	300'	325'	400'	6	6	
	BG2146	5/16THH	3/8THH	7/16THH	1/2TBE&J	5/8TBE&J
	6	6	6	6	6	3
ANCHORS & GROUNDING INCLUDED	GAC3455TOP	AGK1GGX	BGK2GGX	CPC.5/75	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

100' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G130R100



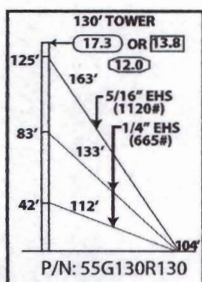
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
					BASE	ANCHOR
	11	1	1	3	CB2G	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	325'	375'	450'	6	6	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	
	6	6	6	6	9	
ANCHORS & GROUNDING INCLUDED	GAC565TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	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	FDNS	
					BASE	ANCHOR
	12	1	1	3	CB2G	AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	350'	400'	500'	6	6	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	
	6	6	6	6	9	
ANCHORS & GROUNDING INCLUDED	GAC565TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

120' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G130R120

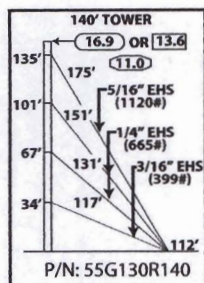


TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
					BASE	ANCHOR
	13	1	1	3	CB2G	AB3
GUYS & CONNECTIONS INCLUDED	1/4EHS	142265	BG2144	BG2146		
	800'	525'	12	6		
	3/8THH	7/16THH	5/8TBE&J	TBSAFETY		
	12	6	9	3		
ANCHORS & GROUNDING INCLUDED	GAC565TOP	AGK1GGX	BGK2GGX	CPC1/1.25	3/4x12PP	
	3	1	3	3	1	

130' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G130R130

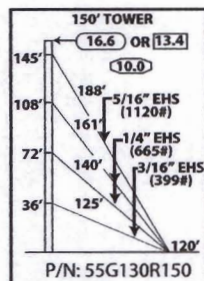


STANDARD DESIGN - 55G **130MPH REV.G, 110MPH REV. F**



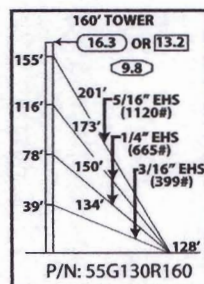
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	14	1	1	4	BASE CB3G	ANCHOR AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	375'	900'	575'	6	12	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	
	6	6	12	6	12	
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

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



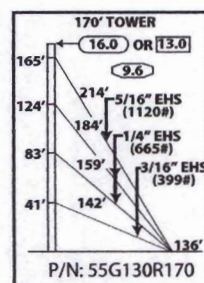
TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	15	1	1	4	BASE CB3G	ANCHOR AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	400'	975'	600'	6	12	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	
	6	6	12	6	12	
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

150' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G130R150



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	16	1	1	4	BASE CB3G	ANCHOR AB3
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	450'	1050'	650'	6	12	
	BG2146	5/16THH	3/8THH	7/16THH	5/8TBE&J	
	6	6	12	6	12	
ANCHORS & GROUNDING INCLUDED	GAC555TOP	AGK1GGX	BGK2GGX	CPC1/1.25	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

160' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G130R160



TOWER PARTS INCLUDED	55G	BPC55G	APL55G	GA55GD	FDNS	
	17	1	1	4	BASE CB3G	ANCHOR AB4
GUYS & CONNECTIONS INCLUDED	3/16EHS	1/4EHS	142265	BG2142	BG2144	
	475'	1100'	700'	6	12	
	BG2146	5/16THH	3/8THH	7/16THH	3/4TBE&J	
	6	6	12	6	12	
ANCHORS & GROUNDING INCLUDED	GAC5755TOP	AGK1GGX	BGK2GGX	CPC1.5/2	TBSAFETY	3/4x12PP
	3	1	3	3	3	1

170' ROHN 55G
All parts shown in table are included when ordering
Part No: 55G130R170

2DO PUNTO

SOBRE TRADUCCION

(TRADUCCION & COMENTARIOS COMPLEMENTARIOS SOBRE LA MISMA)

TRADUCCION DE DOCUMENTO ENTREGADO.

***** EN LOS CUALES (LAS PAGINAS 100 A 102 CONTENIAN CONTENIDO A TRADUCIR -MAS LAS SIGUIENTES HASTA EL FINAL CONTIENEN IMÁGENES CON LOS VALORES NUMERICOS DADOS EN LAS DISTINTAS CONFIGURACIONES POSIBLES DEL TIPO DE TORRE QUE ESTAMOS OFERTANDO)**

PAG.100 (CON EL INDICATIVO #PAG 100) AL PIE

1- USO GENERAL

El 55G se presta a una amplia variedad de usos, particularmente donde una carga de viento inusual y existen requisitos de altura. El 55G fue diseñado para proporcionar una excelente resistencia en alturas de hasta 400 '.

CARACTERÍSTICAS

- Completamente galvanizado en caliente después de la fabricación
- Construido sobre un diseño de triángulo equilátero de 17 "
- Patas tubulares de alta resistencia unidas por Zig-Zag® miembros transversales
- Cada sección contiene todos los tornillos y tuercas necesarios enviado con la sección
- Refuerzo continuo de acero redondo macizo

PAG 101

(INDICA PIEZAS DE LAS BASES EN LOS EXTREMOS DE LA ESTRUCTURA & NUMEROS EXPLICADOS ALLI)

PAG 102

NOTAS DE DISEÑO:

1. Los diseños de torre cumplen con ANSI / TIA-222-F y ANSI / TIA-222-G, Estructuras de Clase I, Categoría topográfica 1.
2. El diseño asume que las torres están instaladas en terreno nivelado. Se aplicarán valores EPA más bajos para torres montadas en el techo o para sitios ubicado en un terreno inusual.
3. Los diseños asumen dos líneas de 1/2" de diámetro en cada cara de la torre.
4. El radio de anclaje es desde la base de la torre hasta la intersección de la varilla de anclaje con el suelo.
5. Las longitudes de los cordones tensores que se muestran se basan en terreno nivelado. Las tensiones iniciales para los hombres se muestran en () en libras a 60º Fahrenheit.
6. Se supone que la antena y los soportes están colocados simétricamente en la parte superior de la torre.

NOTAS DE LA LISTA DE PIEZAS:

1. Los elementos enumerados son obligatorios para torres arriostradas completas.
2. Los cimientos de base y anclaje enumerados se refieren a las designaciones de cimientos estándar.
3. Los conductores provistos con cada torre estándar se basan en condiciones de terreno nivelado con un 6% adicional de longitud.
4. La conexión a tierra del anclaje Rev G (AGK1GGX) y la conexión a tierra de la base (BGK2GGX) se incluyen con el material de la torre.
5. Con cada torre se incluyen planos de montaje y un paquete de seguridad (P / N: ACWS).
6. Las listas de piezas están sujetas a cambios según la disponibilidad o los criterios de diseño revisados.

DESDE LA PAGINA 103 A LA 114

*** Se encuentran tablas en donde se puede identificar los siguientes aspectos:

Estos diseños obedecen a ALTURAS que como pueden apreciar todas exceden la requerida de 60 pies actualmente y por lo cual aventajamos otorgando a ustedes como cliente la oportunidad de tener una configuración de torre en la que de existir en un futuro un plan de expansión e interconexiones con otros puntos (juntas electorales) puedan ser:

- a) Agregar secciones
- b) Y más importante la colocación de más carga representada en los RADIOS DE MICROONDAS que puedan adquirir y requerir en determinado momento y por supuesto donde contarían con nuestro expertise para estos casos.

COMENTARIOS & PROCEDIMIENTO GENERAL DE TRABAJO
(LINEAS GENERALES COMPLEMENTARIAS PARA SUS PONDERACIONES)

A continuación, y sirva de soporte adicional para las evaluaciones que realizarán.

Pasaremos a comentar los puntos clave de este proceso de instalación y el potencial que de inmediato adquirirán con nuestra propuesta.

CON RESPECTO A LA TORRE.

1- Proponemos una Torre: Type Rohn55G -Galvanizada en caliente -config ZZ (REV F & REF G)

SOBRE REV F & REV G (Para ilustrar se realizan en períodos de 5 años diferentes revisiones las cuales son siempre orientadas en las mejoras que en los trabajos se realizan y donde en el caso que nos compete cubren y como su nombre indica (del inglés, REVISION=REV) incluyen:

Estás son las siguientes y más recientes puntos que son cubiertos en el proceso de instalación.

1- Conexión a tierra de protección.

- a. En esta se cubren los aspectos que contesten a requerimientos dados por el cliente como los propios mínimos en la instalación. Para este caso se trabajará con una configuración de un pararrayos e igualmente se adicionará 2 puntos de tierra (aterrizaje en la cima con una barra de conducción acorde al standard EIA e igualmente en la base donde es conducido a través de un aterrizaje mallado que deben ser preparadas donde se usará el ducto actual existente en el techo para el corrido de cables hasta el suelo. Esto es de vital importancia para mantener la integridad de la estructura y la seguridad de esta ante los trabajos en ella realizados.

2- Parámetros de suelo para procesos de instalación.

- a. En el caso que nos ocupa tenemos la instalación en techo y en las configuraciones actuales la sugerida por la torre que estamos presentando, contaremos con una base de acero con pernos y sujetadores y en adición complemento necesario una base de concreto/hormigón que no solo aporta mayor seguridad, sino que va acorde a los puntos a cubrir para estas instalaciones donde se puedan tener previsiones de trabajos futuros (en cuanto a radios de microondas y otros equipos de transmisión).

3- Diseños de carga.

- a. De acuerdo con la altura podemos como comentamos en el inicio “DE SER REQUERIDO” con la configuración propuesta anexar otra sección de torre sin alterar la garantía existente, punto que permite de entrada en un costo reducido lograr alguna expansión y esta ventaja y por mayor seguridad son los motivos de la selección de la torre y las cargas que ella puede manejar.

SOBRE EL SISTEMA DE ANCLAJE.

- 1- Se realizará anclaje en las 4 direcciones como ha sido solicitado y donde con la configuración de base que tenemos en nuestra propuesta a ustedes nos garantizará mayor seguridad.

NOTA IMPORTANTE: En la actualidad la ubicación de la torre existente cuenta con 3 juegos de vientos y con el agravante de contar con uno en una parte de la fachada del edificio (siendo esta de material de relleno), lo cual en nuestro diseño tendremos los juegos de vientos necesarios debidamente anclados al suelo (techo en nuestro caso) y donde en casos como este de presentarse situaciones que limiten los ángulos de extensión de los vientos se deben instalar unos Brackets que permiten luego del ángulo requerido para el viento (cable de acero) poder bajar a nivel de la base de la torre.

Agradecido de su atención, reiterándonos a las órdenes y esperando sus favorables comentarios a nuestros planteamientos a los fines de servirles,



Ing. Jorge Luis Pimentel, MBA & Operations
Presidente CariTec –Consultores & Asesores Tecnológicos.

