

Radian Communication Services



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#### Products for a Growing World of Technology

Since 1948, ROHN has been serving the needs of the communications industry with high quality products that include O U RН STO R towers, poles, equipment enclosures, accessories. ROHN's and manufacturing plant is located in Peoria, Illinois with regional operations throughout the United States.

> ROHN is dedicated to quality in both products and service. That dedication means your towers, poles, and accessories will be the finest available. It also means that you'll order from people who are experienced, efficient and knowledgeable. Our engineering department includes a staff of professional engineers and draftspersons using state of the art computer aided design and drafting equipment to produce custom designs. ROHN's traffic department directs the fast and efficient delivery of ROHN products through experienced contract carriers.



### The Leader in Towers

From Amateur Radio to the latest in Wireless Technology, ROHN has the tower to meet your needs. Upon completion, all towers are hot dip galvanized after fabrication and can be manufactured in either tubular steel or solid rod. Whether its guyed, self-supporting, or rigid tube, all our towers are designed to continually meet the demands and specifications of the communications industry and can be seen all over the world. ROHN towers are made of the finest steel suitable to galvanizing and dipped in molten zinc to provide a durable, and virtually maintenance free finish.



## Poles Conserve Valuable Land Space

ROHN offers a variety of pole types to meet your specific communication requirements. Our tapered steel, flanged steel, fiberglass and concrete poles all feature designs that blend well into the environment and require minimum space for installation. Specifically designed to your requirements, ROHN poles meet the stringent demands of today's communications environment.



### SAFETY FIRST

ROHN is dedicated to the safety of everyone working on and around our products. We urge you to read the safety section in our catalog to prevent any situations that would endanger yourself, your employees, or others.



## Hot Dip Galvanizing

ROHN Hot Dip Galvanizing is one of the most cost effective ways to protect your steel products from corrosion. Since 1955 ROHN has provided hot dip galvanizing for their products.

## OUR EXPERT CONSTRUCTION SERVICES

The ROHN construction group works closely with engineering, production, shipping, and field installation personnel to provide you with the highest quality products and widest range of services in the industry. ROHN's construction experts can assist you in meeting your stringent time schedule, and performance objectives with complete\ turnkey services.



## The One Source you Need

ROHN, in addition to our towers and poles, can provide you with antenna and satellite mounts plus all the hardware and accessories you need to complete the project. All of our mounts and accessories are made with the same high quality and attention to detail as our larger products, so you know whatever it is, when you buy ROHN, you're getting the best.



#### Products for a Growing World of Technology



ROHN Products Peoria Manufacturing Facility 6718 West Plank Road • Peoria, Illinois 61604 USA Phone: 309 - 697 - 4400 • Fax: 309 - 697 - 5612 www.radiancorp.com • rohnproducts@radiancorp.com

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## TOWERS





## Guyed Towers





## G SERIES TOWERS





## G SERIES

#### Multi-Use Towers Built to Last

The G Series is a line of towers designed for efficiency, strength and versatility. The products in the G Series include the 20G, 25G, 45G, 55G, and 65G towers. These durable towers are entirely welded and fabricated with precision equipment and are suited to meet a variety of needs.

## Designed For Efficiency and Strength

All towers in the G Series are constructed with high strength steel tubing and feature ROHN's exclusive Zig-Zag ® solid rod bracing to provide exceptional strength. All G Series Towers are hot dip galvanized after fabrication. In this process, each section of the tower is totally immersed in molten zinc, allowing every square inch of the tower, inside and out, to be completely covered. Hot dip galvanizing protects all points of welding and construction against rust and corrosion while providing an attractive finish.





## G SERIES

#### 20G - Home TV Tower

The 20G is an ideal tower for home TV installations. It's designed and engineered for 2 square feet of antenna surface and will handle most home TV installations. Should a larger antenna be used, we recommend the 25G Series. The 20G tower is intended for bracketed installations only.

#### FEATURES:

- Completely Hot Dip Galvanized after fabrication
- Accessories for 20G are same as the 25G and completely interchangeable
- Built on 12 1/2" equilateral triangle design
- High strength tubular legs joined by Zig-Zag® cross members
- Each 10' section contains all required nuts and bolts inside one leg
- Entirely welded and fabricated with precision equipment

#### 25 G

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. The 25G tower can be used in guyed, self-supporting or bracketed configurations according to specifications in the ROHN catalog. As a guyed structure, the 25G can rise to a maximum of 190 feet. Self supporting and bracketed heights depend on loading and are also specified in the ROHN catalog.

- Completely Hot Dip Galvanized after fabrication
- Accessories for 20G are same as the 25G and completely interchangeable
- Built on 12 1/2" equilateral triangle design
- High strength tubular legs joined by Zig-Zag® cross members
- Each 10' section contains all required nuts and bolts inside one leg
- Entirely welded and fabricated with precision equipment
- Extra heavy-duty 1 1/4" steel tubing side rails
- Continuous solid steel rod bracing



## 45G COMMUNICATIONS TOWER

The 45G is a true multi-use structure that provides excellent strength for applications up to 300 feet. It's offered with either heavy steel tube or solid steel rod legs to satisfy a wide variety of needs under varied conditions. When properly installed, the standard tower will support loads as shown on various guyed and self-supporting information sheets in the ROHN catalog.

- Completely Hot Dip Galvanized after fabrication
- Heavy steel tube or solid steel rod side rails
- Built on 18" equilateral triangle design
- Utilizes 1 1/4" outside diameter, 14 gauge, special quality steel tubing or solid steel rod legs
- Zig-Zag® cross bracing is formed from a continuous 7/16" solid steel rod electrically welded every 15 3/4" on the side rails
- Each 10' sleeve is joined to the other and double bolted for extra strength

## 55G COMMUNICATIONS TOWER

Because of its rugged design, the 55G lends itself to a wide variety of used in the communications field, particularly where unusual wind loading and height requirements exist. The 55G was designed to provide excellent strength in heights up to 400 feet. When properly installed, the standard tower will support loads as shown on various guyed and self-supporting information sheets in the ROHN catalog.

- Completely Hot Dip Galvanized after fabrication
- Heavy steel tube or solid steel rod side rails
- Built on 18" equilateral triangle design
- Utilizes high strength steel tubing side rails
- Zig-Zag® cross bracing is formed from a continuous 7/16" solid steel rod electrically welded every 15 3/4" on the side rails
- Each 10' sleeve is joined to the other and double bolted for extra strength
- Adaptable to varying heights and loading requirements



### 65G COMMUNICATIONS TOWER

The 65G is designed to provide excellent rigidity and strength in applications up to 500 feet when guyed, and 80 feet when self-supporting. This high strength design covers a wide variety of communication uses. The 65G is completely prefabricated in welded sections allowing for quick and convenient installation.

- Tower sections and all hardware are completely Hot Dip Galvanized after fabrication
- Utilizes 2" O.D. high strength steel side rails
- Built on 26 1/4" equilateral triangle design
- Utilizes high strength steel tubing side rails
- Zig-Zag® cross bracing is formed from a continuous 5/8" solid steel rod electrically welded every 22" on the side rails
- Completely prefabricated in welded sections



## 20G TOWER





#### 20G Tower Economy Home TV Tower

Part No.	Description	WT
20G	10' tower section	30
20G7	7' towers section	21
20A	9' top section	26
20BG	3' top section	8-1/2
★ BPC25G	Concrete base plate (sits on a pier pin - order pier pin separately)	27
* 3/4x12PP	Pier pin (for BPC25 - one required)	1

20G and 20G7 tower sections are constructed with 1-1/4" steel tubing side rails, with continuous steel solid rod Zig Zag cross bracing electrically welded throughout, and built on a 12-1/2" equilateral triangular design. Completely hot dip galvanized after fabrication.

ROHN 25G accessories fit the 20G and 20G7 tower.

The #20 tower is not recommended for commercial, ham, CB or guyed installations.

\* Towers mounted on this base must be bracketed or guyed at all times.

**Note:** The price on #20 sections will be higher on shipments to the following states: Arizona, California, Idaho, Montana, Nevada, oregon, Utah, Washington, and Wyoming.

Refer to alphabetical/numerical price list for current prices.

F.O.B. Peoria Illinois.

Specifications subject to change without notice.







## 25G TOWER



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Part No.	Description	Wt.
25G	10' tower section	40
25G7	7' tower section	28
25AG	9' top section. Mast support tube is 2" O.D. tube with bushing and set screw installed	31
25AG1	Top Section. Mast support tube is 1-1/4" galv. pipe, threaded on top and projecting 12' above apex of side rails	31
25AG2	Top Section. Mast support tube is 2-1/4" O.D. tubing, 36" total length, extending 18" above apex of side rails	31
25AG3	Top Section. Mast support tube is 2-1/4" O.D. tubing, extending 12" above apex of side rails. A 2" O.D. antenna stub will fit	31
25AG4	7' top section. Upper end terminates in flat, triangular with 3-1/8" diameter hole in center. Drilled to accept TB3 or TB4 thrust bearing.	31
25AG5	Top section. Mast support tube is 2-3/4" O.D. and 2-9/16" I.D. tubing 18" total length.	31
25T	10' tapered base section (for use with 3/4"x12PP pier pin).	60
25TGIA	10' tapered base section (for use with A4197L base insulator)	75
25R	10' insulator section for 25G tower (includes 3#10470 post insulators	74
25ACL	10' anti-climb section	115
25ACL3	3 anti-climb metal sheets for attaching to tower section	65
25JBK	Join bolt kit	
APL25G		14
SB25G	3'-4' short base section for use in concrete	10
SBZOGO	S short base section for use in concrete	19
SBH25G	3-4 hinged short base section for use in concrete	14
	Diar Dia (far DC25C ar 25TCA and required)	1
3/ 4/ 1 2rr	Fier Fill (TOF DFC 200 OF 2010A - OHE required)	21
1/2-1200	Concrete base bolt with double puts (for RDH25G - four required)	1
BP25G	Field base plate use with DP25G drive rod set	7
DP25G	2' drive rade set of 3 for use with BP25G have plate	6
DT25	Drive tool for DP25G drive rod	17
SDB25G	Single field drive-in base plate assembly	20
PR25G	Peak roof base assembly with adjustable hinged feet	14
FR25G	Flat roof mount	24
GA25GD	Guy bracket assembly	11
TB25D	Toraue bars (for use with GA25GD aux bracket - reauires3 shackles, 3/8" maximum size - order seperately)	6
3/85	3/8" shackle	1
HBU	Universal house bracket (6" to 30")	15
HBUTVRO	Universal house bracket (18" to 36")	38
HB25AG0-15"	Adjustable house bracket - 15" standoff	8
HB25AG0-24"	Adjustable house bracket - 24" standoff	11
HB25AG0-36"	Adjustable house bracket - 36" standoff	17
EB2525G	Universal eave bracket with hinged connection for pitched roof	7
TB50	Tower bushing for 45AG top (1-1/4" I.D. x 2" O.D.)	1
TB75	Tower bushing for 45AG top (1-1/2" I.D. x 2" O.D.)	1
TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing (fits 25G4 top section)	3
TB25D	Torque bars (for use with GA25GD guy bracket - requires 3 shackels, 3/8" maximum size - order separately	3
BPL 25G	Top plate with guy lugs for mounting TB3 orTB4 bearing	12
RP25G	Rotor post, left	3
RP25G CM	Rotor post, left	2
AS25G	Accessory shelt for mounting rotor	4
BA25G	Bearing/Accessory shelt assembly	8
SAZSJUA	Side arm assembly, 2-1/2" to 3" extention, with 2-1/4" support tube	28
UHFZ3G	Side arm only of SA2S3UA	4
KT2008A10	DBS antenna support assembly with 1.00 C.D. mounting tube	23
KT2006AT3	DBS antenna support assembly with 2.3 /9" O.D. mounting tube	24
TA 25	Torrup arm stabilizer assembly	32
25TDM/KD	Ton dich mount Ton plate has any lugs and set scrows to segure mounting pipe	30
DM25G2	Face dish mount $w/2'' [2-3/8'' O D ] x 5' long standard nine$	12
WP25G	Work platform	10
SR245	Safety ring	8
2.590MM	20 degree joint_male/male connection	12
2590FM	90 degree joint, female/male connection	11
2590FF	90 degree joint, female/male connection	10
EF2545	Aluminum erection fixture, $12'$ long (fits all models with $1-1/4''$ side rails). Use only to raise one $10'$ section or any	20
	part of a section at one time. Not intended to be used for lifting individuals.	
P2545	Pole only for EF2545	12
H2545	Head only for EF2545	8

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January 1, 1996

Parts List P-622 (Replaces P-558)

#### Parts List for #25G Guyed Towers

70 MPH Basic Wind Speed (No Ice)

Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'
25G	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
25AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC25G w/3/4 x 12PP	1	1	1	1	1	1	_ 1	1	1	1	1	1	1	1	1	1
GA25GD	1	2	2	2	3	3	3	3	4	4	4	5	5	5	5	5
G.W. 3/16" EHS	175'	350'	425'	500'	800'	900'	1000'	1100'	1575'	1700'	1825'	2425'	2650'	2825'	2925'	3175'
BG2142	6	12	12	12	18	18	18	18	24	24	24	30	30	30	30	30
5/16" THH	6	12	12	12	18	18	18	18	24	24	24	30	30	30	30	30
T.B. 3/8 x 6 E&E	*	6	6	6	9	9	9	9	12	12	12	15	15	15	15	15
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GAC303	*	3	3	3	3	3	3	3								
GAC305									3	. 3	3	3	3	3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028 Clamp	3	6	6	6	9	9	9	9	12	12	12	15	15	15	15	15
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

\* <u>Note</u>: For 40' ground tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

Items shown above are necessary for complete "ground" guyed towers. (<u>Note</u>: Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger-Watch for Wires labels along with other printed safety information.

All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.



**25G** 







Parts List P-623 (Replaces P-574)

January 1, 1996

#### Parts List for #25G Guyed Towers

90 MPH Basic Wind Speed (No Ice)

Tower Height																
Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'
25G	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
25AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC25G w/3/4 x 12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GA25GD	1	2	2	2	3	3	3	3	4	4	4	5	5	6	6	6
G.W. 3/16" EHS	175'	350'	425'	500'	800'	900'	1000'	1100'	1575'	1750'	1825'	2425'	2650'	2775'	3000'	3150'
BG2142	6	12	12	12	18	18	18	18	24	24	24	30	30	36	36	36
5/16" THH	6	12	12	12	18	18	18	18	24	24	24	30	30	36	36	36
T.B. 3/8 x 6 E&E	*	6	6	6	9	9	9	9	12	12	12			6	6	6
T.B. 1/2 x 12 E&J												15	15	12	12	12
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6
GAC303	*	3	3	3	3	3	3	3						3	3	3
GAC305									3	3	3					
GAC3455											3	3	3	3	3	
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
340028 Clamp	3	6	6	6	9	9	9	9	12	12	12	15	15	18	18	18
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

\* Note: For 40' ground tower, 3 GAR30 anchors and 3 5/8 TBE&J turnbuckles are supplied rather than the items shown in the above chart.

Items shown above are necessary for complete "ground" guyed towers. (Note: Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger-Watch for Wires labels along with other printed safety information.

All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance.





**25G** 







**25G** 







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



#### **25G**





## 45G TOWER



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November 1, 1997

Sheet D-2887 (Replaces D-2535)

#### **45G TOWER**

	Part No.	Description	Wt.
	45G	10' tower section	70
	45AG	9' top section	52
88	45AG1	Top Section. Mast support tube is 1-1/4" galv. pipe, threaded on top and projecting 12" above apex of side rails.	60
	45AG2	Top Section. Mast support tube is 2-3/8" O.D. tubing, 36" total length, extending 18" above apex of side rails.	60
	45AG3	Top Section. Mast support tube is 2-1/4" O.D. tubing, extending 12" above apex of side rails. A 2" O.D. antenna stub will fit snugly inside support tube.	60
	45AG4	7' top section. Upper end terminates in flat, triangular plate with 3-1/8" diameter hole in center. Drilled to accept TB3 or TB4 thrust bearing.	52
8	45AG5	Top section. Mast support tube is 2-3/4" O.D. and 2-9/16" I.D. tubing, 18" total length.	60
*	45TG	10' tapered base section (sits on a pier pin - order pier pin separately)	90
*	45TGIA	10' tapered base section (for use with A4197L base insulator)	114
*	45TGIA47	10' tapered base section (for use with A4722B base insulator)	114
*	45RG	10' insulator section for 45G tower (includes 3 # 10470 post insulators)	104
	45ACL	10' anti-climb section	165
	455ACL3	3 anti-climb metal sheets for attaching to tower section	120
	5545G	20' adapter section for joining 45G and 55G sections	160
	45JBK	Joint bolt kit	3/4
	APL45G	Beacon plate	17
	SB45G	5' short base section for use in concrete	35
*	PBC45G	Concrete base plate (sits on pier - order pin separately)	39
*	3/4X12PP	Pier pin (for BPC45G or 45TG - one required)	1
*	BPH45G	Hinged base plate for concrete	80
*	5/8X12BB	Concrete base bolt with double nuts (for BPH45G - four required)	1
*	FR45G	Flat roof mount	34
	AS455G	Accessory shelf. Triangular plate for mounting most popular Ham rotors. Can be drilled if needed.	8
	GA45GD	Guy bracket assembly	23
	TB45D	Torque bars (for use with GA45GD guy bracket) (requires 3 shackles, 3/8" maximum size - order separately)	10
	3/85	3/8 shackle	25/100
	HBU	Universal house bracket (6" to 30")	15
	HBUTVRO	Universal house bracket (18" to 36")	38
	TB50	Tower bushing for 45AG top (1-1/4" I.D. x 2" O.D.)	1/2
	TB75	Tower bushing for 45AG top (1-1/2" I.D. x 2" O.D.)	1/2
	TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing (fits 45AG4 top section)	2-1/2
	TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing (fits 45AG4 top section)	3
	BPL45G	Top plate with guy lugs for mounting AB, TB3 or TB4 bearing	17
	SA253UA	Side arm assembly, 2-1/2" to 3' extension, with 2-1/4" support tube	28
	TA45	Torque arm stabilizer assembly	56
	45TDMKD	Top Dish Mount (knock down)	62
	DM45G2	Face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	52
	DM454	Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	88
	WP45G	Work platform	14
	SR245	Safety ring	8
	EF2545	Aluminum erection fixture, 12' long (fits all models with 1-1/4" side rails) (Use only to raise one 10' section or any part of a section at one time. Not intended to be used for lifting individuals)	20
	P2545	Pole only for EF2545	12
	H2545	Head only for EF2545	8

Note: The price on #45 and #5545G sections will be higher on shipments to the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.

- Se Available by special order only.
- ★ Towers mounted on this base must be bracketed or guyed at all times.
- This item is not to be used without proper design consideration.

Refer to alphabetical/numerical price list for current prices. F.O.B. Peoria, Illinois

Specifications subject to change without notice.

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Ð	TOWER	PLAN CAL	-	ANCHOR	RODS	Ш ЦО	1		
TOWER	BASE REF. D	PIER		REF. DWG	ANCH	OR DA'	IA 5, ROD-CE	3604 I 5	
	ģ	REAC.	BLOCK	С Ор И	Ð	20	ų	REAC.	LBS
		LBS.	N	NO.	ANGLE	HOR.	VERT.	HOR.	VERT
40.	CB2	2,580	4A	GAR30	44.5	12	9.11	1,040	1,020
20	CBZ	2,820	4A	GAR30	45.9	11.6	12.0	1,080	1,120
60'	CB2	3,080	4A	GAR30	43.3	12	5.11	1.270	1,190
70,	CB2	3,470	4A	GAC303	42.9	12	11.2	1,480	1,380
• 80	CBZ	3,830	4A	GAC303	40.9	12	10.4	1,710	1,490
.06	CB2	4,040	4A	GAC303	43.0	2	2.11	1,700	1,590
1001	CB2	4.310	4A	GAC303	41.8	12	10.7	1,860	1,66(
110.	CB2	4,930	4A	GAC303	39.7	12	10.0	2,290	1,900
120.	CB2	5,240	4A	GAC303	38.8	12	9.6	2,440	1,96(
130'	CB2	5,540	4A	6AC303	40.3	12	10.2	2,540	2,150
140	CB2	6,020	4A	GAC303	40.0	12	10.1	2,830	2,380
150'	CB2	6,460	4A.	GAC305	38.0	12	9.4	3,200	2,500
.091	CB2	6,970	44	GAC305	37.8	12	9.3	3,550	2,75(
170	CB2	7,110	4A	GAC305	38.7	12	9.6	3,520	2,82

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TUNGUYING DETAILS FOR 40°-170 456 TOWER 70 MPH BASIC WIND SPEED (NO ICE)

1-27-32 RKB 2/7- 75 10-2-87 GPW 2/7- 75 ∆ Date ▲ Rev By ▲ Appd.

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R2 REV'D GEN.NOTES WAS REV-D; NOW REV-E R1 REV'D ANC RODS & NOTES; UPDATED

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#### Parts List P-590 (Replaces P-560)

# Parts List for #45G Guyed Towers

70 MPH Basic Wind Speed (No Ice)

<u></u>					IOW	er neig	ш							
Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15	16
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	์ 1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	1	2	2	2	2	3	3	3	3	4	4	4
3/16EHS	150'	200'	225'	500'	525'	625'	675'	1100'	1150'	1325'	850'	1950'	1400'	2325'
1/4EHS											550'		625'	
BG2142	6	6	6	12	12	12	12	18	18	18	12	24	18	24
BG2144											6		6	
5/16THH	6	6	6	12	12	12	12	18	18	18	12	24	18	24
3/8THH											6		6	
3/8TBE&E				6	6	6	6	9	9	9	6	12	9	12
1/2TBE&E											3		3	
5/8TBE&J	3	3	3											
1/4CCM											6		6	
TBSAFETY	3	3	3	3	3	3	3	3	3	3		3		3
GAR30	3	3	3											
GAC303				3	3	3	3	3	3	3	3			
GAC305												3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	3	3	3	6	6	6	6	9	9	9	9	12	12	12
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Tower Heiaht

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.







#### Parts List P-590 (Replaces P-560)

# Parts List for #45G Guyed Towers

70 MPH Basic Wind Speed (No Ice)

					Tow	er Heig	ht							
Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15	16
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	<sup>1</sup> 1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	1	2	2	2	2	3	3	3	3	4	4	4
3/16EHS	150'	200'	225'	500'	525'	625'	675'	1100'	1150'	1325'	850'	1950'	1400'	2325'
1/4EHS											550'		625'	
BG2142	6	6	6	12	12	12	12	18	18	18	12	24	18	24
BG2144											6		6	
5/16THH	6	6	6	12	12	12	12	18	18	18	12	24	18	24
3/8THH											6		6	
3/8TBE&E				6	6	6	6	9	9	9	6	12	9	12
1/2TBE&E											3		3	
5/8TBE&J	3	3	3											
1/4CCM											6		6	
TBSAFETY	3	3	3	3	3	3	3	3	3	3		3		3
GAR30	3	3	3											
GAC303				3	3	3	3	3	3	3	3			
GAC305												3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	3	3	3	6	6	6	6	9	9	9	9	12	12	12
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (Note: Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.



91. 100. TOWER 91. 100. TOWER 81. 13.5 ON 8.1 81. 13.5 ON 8.1 14. EHS 31. 85. 1400 1	P/N 456900100		RESCTION OF ROD WITH GROUND. NARE BASED ON LEVEL GROUND. IN ARE BASED ON LEVEL GROUND. IN FALLING DISTANCE OF Y OUALIFIED AND EXPERIENCED NFALLING DISTANCE OF V OUALIFIED AND EXPERIENCED BEFORM AND NANTING. GHT Y VISIELE LOCATION. BETOR AND SPEED (ND ICE) C WIND SPEED (ND ICE) DAWNNG ND: . CB7047B RI
<b>30' TOWER</b> BI'	P/N 456900090 IS1 - 100 - 100ER IS1 - 100 - 100ER IS1 - 100 - 101 - 101 - 101 76 - 100 - 101 - 101 - 101 76 - 100 - 101 - 101 - 101 78 - 133 - 101 - 101 - 101 38 - 133 - 101 - 101 - 101 - 101 38 - 133 - 101 - 1	P/N 456900160	E S State State S
B0' TOWER 71'	P.N. 456300080 141. 14	P/N 45690D150	ERAL NOT PARS: PARS: PARSE
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<b>60'</b> TOWER <sup>51</sup> <sup>62</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup> <sup>64</sup>	121 - 142 - 1230 - 100 - 141 -	P/N 45690D130	1. TOWER DESIGN IN ACCORDANCE           1. TOWER DESIGN IN ACCORDANCE           2. COLLAMALLE PROJ. AFEA IN ACCOMPANIE FROM. AFEA IN SECURATIONE EXCIDENT FLAT-PLATE ANTEA ATTEANT INTERCEMPERENCIAL ATTEANT ON INCOMPANIE FEASIBLE FROM AND ACCORDANCE ATTEANT ON INCOMPANIE ATTEANT ON INCOMPANIE ATTEANT ATTEANT ON INCOMPANIE ATTEANT ATTEANT ON INCOMPANIE ATTEANT
50' TOWER 41' (660, ) 40' 40'	75' 120' TOWER 75' 12' TOWER 75' 12' 14' EHS 75' 10' 7.6 (600*) 35' 10' 14' EHS (400*)	P/N 45690D120	FOD         ANGLE           FIN         DEGREES           FOD         ANGLE           FIL         DEGREES           SLOPE         FOU           NCHOR         DEGREES           SLOPE         DEGREES           SLOPE         DEGREES           ANCHOR         NO           SLOPE         DEGREES           ANCHOR         ROD           SLOPE         DEGREES           ANCHOR         ROD           ANCHOR         RO
31. 31. (660.) OR 10.8 (660.) 32.	101. 10. TONER 101. 10. TONER 101. 10. 10. 7.8 10. 7.8	P/N 456900110	SEE NOTE 7           120'0'0" TYP.           120'0 '0" TYP.           120'0 '0" TYP.           NOTE: FOR SPACE           NOT. C640531           TYPE           NO. C640531           TYPE           NO. C64053           NO. REAC. BLOCK           HT           NO. REAC. NO.           Scieccond.           AA           BO'CBA



#### Parts List P-592 (Replaces P-569)

# Parts List for #45G Guyed Towers

90 MPH Basic Wind Speed (No Ice)

				_	Tow	er Heig	ht						
Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	2	2	2	2	3	3	3	3	4	4	4
3/16EHS			175'	225'	250'	275'	600'	650'	725'	775'	1275'	1375'	1450'
1/4EHS	150'	200'	225'	275'	325'	350'	400'	450'	500'	525'	550'	600'	650'
BG2142			6	6	6	6	12	12	12	12	18	18	18
BG2144	6	6	6	6	6	6	.6	6	6	6	6	6	6
5/16THH			6	6	6	6	12	12	12	12	18	18	18
3/8THH	6	6	6	6	6	6	6	6	6	6	6	6	6
3/8TBE&E			3	3	3	3	6	6					
1/2TBE&E			3	3	3	3	з	3					
1/2TBE&J	-								9	9	12	12	12
5/8TBE&J	3	3											
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	3	3
GAR30	3	3											
GAC303			з	3	3	3	3	3					
GAC345501									3	3	3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	6	6	6	6	6	6	9	9	9	9	12	12	12
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (Note: Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.



			RD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. SHOTS (TRY SHO MARE BASED ON LEVEL GROUND. SHOTS (TRY SHO MARE BASED ON LEVEL GROUND. THE TOWERS WITHIN FALLING DISTANCE OF ELEC- THE TOWERS WITHIN FALLING DISTANCE OF ELEC- THE OWNERS WITHIN FALLING DISTANCE OF ELEC- THE OWNER OF THE BESCION OR DISWANTLING. ALLEDS IN HIGHLY VISIELE LOCATION. SWAST BE GROUNDED IN ACCORDANCE WITHING. SWAST BE GROUNDED IN ACCORDANCE WITHING.		1, 1914, P.G. 1, 1, 200	ED IN WOLE OF R O H N	"GUYING DETAILS FOR 170"-240" "GUYING DETAILS FOR 170"-240" 90 MPH BASIC WIND SPEED (NO ICE) FILE: DEWING NO. CB70479 RJ
200° TOWER 191 • • • • • • • • • • • • • • • • • •	240* TOWER 231 195* 195* 195* 195* 195* 100*	P/N 45690D240	<ul> <li>N OJ E S</li> <li>OVER PESS AND GUY OF</li> <li>OVER PESS AND GUY OF</li> <li>EDOFFE TRENGET IN DISAPACITIC AND COMPACT AND AND AND AND AND AND AND AND AND AND</li></ul>		RI BEV O SEN MOTES WAS BEV	No. A Revision Description No. A Revision Description THIS DRAWING IS THE PROPERTY OF TO BE REPROVED. COPIED OR TRAD	IN PART WITHOUT ONE WRITTEN CONS           Scelet NORE         D)         Date         Titl           Scelet NORE         D)         Date         Titl           Drevel         BY         Date         Titl           Drevel         BY         Date         Titl           Drevel         BY         Date         Titl           Drevel         BY/BUL         9-1-07         App           Abr.         RM         10-1-07         App           Abr.         Scless         AE         Z-1Z-08         ENG
190° TOWER 191' 145' 100 16.5 145' 15' 15' 15' 15' 15' 145' 15' 15' 15' 15' 193' 15' 15' 15' 15' 193' 15' 15' 15' 15' 193' 15' 15' 15' 15' 15' 15' 15' 15' 15' 15	220 TOWER 221 188 189 189 189 189 189 189 189 189 189 189 189 189 189 189 189 189 189 180 189 1	P/N 456900230	GENENAL STANDARD PROVED NATIONL STANDARD RELA RENER ANTENNS. RELA RENER ANTENNS. I MEMBER ANTENNS. I MEMBER ANTENNS. I MEMBER ANTENS. I MEMBER ANTENNS. I MEMBER ANTENNS. I MEMBER ANTENNS. I MEMBER ANTENNS. I MEMBER ANTENNS. RELEANCENT FOR RELATION RELEANCENT FOR RELATION RELEARCENT FOR RELEARCENT FOR RELEARCENT FOR RELEARCENT FOR RELEARCENT RELEARCENT FOR RELEARCENT FOR RELEA	2007 DATA 20643: R0D-C660415	SLOPE REAC. LBS. HOR. VERT. HOR. VERT. I I.I. 6, 170 5, 710	12 11.1 5,590 5,200 12 11.4 6,670 6,360 12 11.3 7,000 6,610	
171 171 171 171 171 171 171 171	211 000 000 000 000 000 000 000 000 000	P/N 45690D220	RANE ARE IN ACCORPANCE WITH A CARE PROJ. (ACCORPANCE WITH FO CARE PROJ. (AREA) SO. FT.) FO CHALF PROJ. (AREA) SO. FT.) FO CHALF PROJ. AREAS SO PROF. THE AREAS SOMM FOR FLORE PROF. PROJ. PROJ. PROJ. PROF. AREA DETAILS (FAN BAZES) AND BETAILS (FAN BAZES) SOME 12" & ANE 70" IN ADWARE INSTALLATION DETAILS S ARDWARE INSTALLATION DETAILS S	OUTER AND REF. DWG.: BLOCK-CE	S.         BLOCK         ROD         ROD           T.         NO.         NO.         ANGLE           22         NO.         NO.         ANGLE           23         NO.         NO.         ANGLE           66         40         6.053455         42.8	10 4E GAC3455 42.5 70 4E GAC3455 43.6 30 4E GAC3455 43.3	
170 TOWER 161 112 0F 6.8 164 25, 170 10MER 128 112 0F 6.8 164 10, 170 100 FF 128 112 0F 6.8 128 112 0F	210* TOWER 201* TOWER 201* FIS 150* FIS 99* 05* FIS 98* 05* 05* 05* 05* 05* 05* 05* 05* 05* 05	P/N 45690D210	ROD DAIGLE IN DEGRESS FOR BAY CONN. ELOPE NO. BACOLINE SLOPE N	INNER ANCHOR DATA REF. DWG.: BLOCK-C620643; ROD-C660415	RDD         ROD         SLOPE         REAC.         LB:           NO.         ANGLE HOR.         VERT         HOR.         VER           0AC3455         37.9         12         9.4         6.000         5.12           0AC3455         38.4         12         9.4         6.000         5.2           0AC3455         38.4         12         9.5         7.000         5.2           0AC3455         38.4         12         9.5         7.000         5.13           0AC3455         38.2         12         9.5         7.000         5.3           0AC3455         38.2         12         9.5         7.000         5.3           0AC3455         38.2         12         10.5         1.550         1.3	DAUGUO         #U.b         12         10.5         1,500         1,4           GAC305         38.3         12         9.5         2,490         1,9           GAC303         38.7         12         9.6         2,400         1,9	
			SEE NOTE 8 120-0.0" TVP. NOTE: FOR SPACE RECOURTIENTS SECONTRENENTS NOTE: CON SPACE NOTE: CON SPACE NOTE: CON SPACE	BASE PIER REF. DWG. CELOEZI	TOWER         No.         REAC.         BLOC           HT.         NO.         LBS.         NO.           170'         0B2         10,420         45           180'         0B2         11,280         40           200'         0B2         11,380         40           200'         0B2         11,980         40           210'         0B2         12,980         40	230' CB2 17,350 4A 230' CB2 17,350 4A 240' CB2 17,450 4A	



Parts List P-593 (Replaces P-586)

#### January 1, 1995

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# Parts List for #45G Guyed Towers

90 MPH Basic Wind Speed (No Ice)

Part Number	170'	180'	190'	200'	210'	220'	230'	240'
45G	16	17	18	20	21	22	23	24
45AG2	1	1	1					
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1
APL45G				1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3
GA45GD	5	5	5	5	6	6	7	7
3/16EHS	2150'	2175'	2350'	2425'	2575'	1875'	2500'	2600'
1/4EHS	675'			-		800'	850'	875'
5/16EHS		725'	775'	800'	850'	875'	925'	1000'
BG2142	24	24	24	24	30	24	30	30
BG2144	6					6	6	6
BG2146		6	6	6	6	6	6	6
5/16THH	24	24	24	24	30	24	30	30
3/8THH	6					6	6	6
7/16THH		6	6	6	6	6	6	6
3/8TBE&E					6	6	9	9
1/2TBE&J	15	12	12	12	9	9	9	9
5/8TBE&J		3	3	3	3	3	3	3
5/16CCF								6
TBSAFETY	3	3	3	3	6	6	6	3
GAC303					3	3	3	3
GAC345501	3	3	3	3	3	3	3	3
AGKE	1	1	1	1	2	2	2	2
340028	15	15	15	15	18	18	21	21
BGKE	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.





Parts List P-594

(Replaces P-554)

### Parts List for #45G Guyed Towers

110 MPH Basic Wind Speed (No Ice)

		-			Tow	er Heig	ht							
Part Number	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'
45G	3	4	5	6	7	8	9	10	11	12	13	14	15	16
45AG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BPC45G with 3/4X12PP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SA253UA	3	3	3	3	3	3	3	3	3	3	3	3	3	3
GA45GD	1	1	2	2	2	2	3	3	3	3	4	4	4	5
3/16EHS			175'	200'	250'	275'	625'	700'	725'	350'	875'	900'	925'	1500'
1/4EHS	150'	200'	250'	275'	325'	375'	400'	450'		425'	475'	525'	550'	700'
5/16EHS									500'	525'	575'	600'	650'	700'
BG2142			6	6	6	6	12	12	12	6	12	12	12	18
BG2144	6	6	6	6	6	6	6	6		6	6	6	6	6
BG2146									6	6	6	6	6	6
5/16THH			6	6	6	6	12	12	12	6	12	12	12	18
3/8THH	6	6	6	6	6	6	6	6		6	6	6	6	6
7/16THH									6	6	6	6	6	6
3/8TBE&E			3	3	3	3								
1/2TBE&E			3	3	3	3								
1/2TBE&J							9	9	6	6	9	9	9	12
5/8TBE&J	3	3							3	3	3	3	3	3
1/4CCM														6
TBSAFETY	3	3	3	3	3	3	3	3	3	3	3	З	3	алан (т. 1997) 1997 - Парадор (т. 1997) 1997 - Парадор (т. 1997)
GAR30	3	3			•								-	
GAC303			3	3	3	3								
GAC345501							3	3	3	3	3	3	3	3
AGKE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
340028	3	3	6	6	6	6	9	9	9	9	12	12	12	15
BGKE	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Items shown above are necessary for complete "ground" guyed towers. (**Note:** Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.)

Anchor grounding (AGKE) and base grounding (BGKE), as recommended by EIA, are included with the tower material. However, extra copper wire may be required for roof installations. See appropriate sheet for grounding material and order extra copper wire as a separate item.

Installation information and a safety package (part number ACWS) are also included with the tower material. This package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.













\* 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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# Blank



# 55G TOWER



Products for a Growing World of Technology

# Blank





February 1, 1997

Sheet D-2885 (Replaces D-2829)

# **55G TOWER**

	Part No.	Description	Wt.
	55G	10' tower section	100
*	55TG	10' tapered base section (sits on a pier pin - order pier pin separately)	138
*	55TGIA	10' tapered base section (for use with A4197L base insulator)	138
*	55TGIAA	10' tapered base section (for use with A4722B base insulator)	138
	55ACL	10' welded anti-climb section	185
	455ACL3	3 anti-climb metal sheets for attaching to tower section	120
	5545G	20' adapter section for joining 45G and 55G sections	160
	55JBK	Joint bolt kit	1
	APL55G	Beacon plate	20
	APL1258UM	Mid beacon plate assembly	30
	SB55G	5' short base section for concrete	45
*	BPC55G	Concrete base plate (sits on a pier pin - order pier pin separately)	40
*	3/4X12PP	Pier pin (for BPC55G or 55TG - one required)	1
	GA55GD	Guy bracket assembly	27
	TB55D	Torque bars with sleeves (for use with GA55GD guy bracket) (requires 3 shackles, 1/2" maximum size - order separately)	13
	HBUTVRO	Universal house bracket (18" to 36")	38
	TB3	Heavy duty thrust bearing, recommended for 2" O.D. tubing	1
	TB4	Heavy duty thrust bearing, recommended for 3" O.D. tubing	2-1/2
	BPL55G	Top plate with guy lugs for mounting AB, TB3 or TB4 bearing	3
	SA253UA	Side arm assembly, 2-1/2" to 3' extension, with 2-1/4" support tube	28
\$	TA55	Torque arm stabilizer assembly	60
	55TDMKD	Top dish mount	65
	55TDM2S3KD	Top dish mount w/2" standard pipe (extends 3' above top plate)	85
	55TDM25S3KD	Top dish mount w/2-1/2" standard pipe (extends 3' above top plate)	105
	55TDM3S3KD	Top dish mount w/3" standard pipe (extends 3' above top plate)	120
	55TDM35S3KD	Top dish mount w/3-1/2" standard pipe (extends 3' above top plate)	130
	55TDM4S3KD	Top dish mount w/4" standard pipe (extends 3' above top plate)	145
\$	DM55G2	Side face dish mount w/2" (2-3/8" O.D.) 5' long standard pipe	53
	DM554	Side face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	89
	AS455G	Accessory shelf	8
88	SR55	Safety ring	10
	WP55G	Work platform	15

Note: The price on #55 sections will be higher on shipments to the following states: Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.

Available by special order only.
 ★ Towers mounted on this base must be bracketed or guyed at all times.
 ♦ This item is not to be used without proper design consideration.



Parts List P-606 (Replaces P-561)

Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	BG2142	BG2144	BG2146	5/16″ THH	3/8″ THH	7/16″ THH	3/8TBE&E	1/2TBE&E	1/2TBE&J	5/8TBE&J	GAC 303	GAC345501	AGKE	BGKE
100′	10	1	1	3	2	300′	375′		6	6		6	6		3	3			3		1	2
110′	11	1	1	3	2	325′	425′		6	6		6	6		3	3			3		1	2
120′	12	1	1	3	3	725′	500′		12	6		12	6		6	3			3		1	2
130′	13	1	1	3	3	775′	500′		12	6		12	6		6	3			3		1	2
140′	14	1	1	3	3	825′	550′		12	6		12	6		6	3			3		1	2
150′	15	1	1	3	3	900′	575′		12	6		12	6		6	3			3		1	2
160′	16	1	1	3	3	950′	625′		12	6		12	6		6	3			3		1	2
170′	17	1	1	3	4	1525′	675′		18	6		18	6				12			3	1	2
180′	18	1	1	3	4	1625′	700′		18	6		18	6				12			3	1	2
190′	19	1	1	3	4	1700′	750′		18	6		18	6				12			3	1	2
200′	20	1	1	3	4	1800′	800′		18	6		18	6				12			3	1	2
210′	21	1	1	3	4	1875′	825′		18	6		18	6				12			3	1	2
220′	22	1	1	3	5	2700′	875′		24	6		24	6				15			3	1	2
230′	23	1	1	3	5	2775′	900′		24	6		24	6				15			3	1	2
240′	24	1	1	3	5	2900′		950′	24		6	24		6			12	3		3	1	2
250′	25	1	1	3	5	3000′		1000′	24		6	24		6			12	3		3	1	2

# PARTS LIST FOR #55G GUYED TOWERS 70 MPH Basic Wind Speed (No Ice)

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.







Parts List P-607 (Replaces P-574)

55G

## PARTS LIST FOR #55G GUYED TOWERS 70 MPH Basic Wind Speed (No Ice)

Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	APL1258UM	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	BG2142	BG2144	BG2146	5/16″ THH	3/8″ Thh	7/16″ THH	3/8TBE&E	1/2TBE&J	5/8TBE&J	GAC 303	GAC345501	GAC565501	AGKE	BGKE
260′	26	1	1	3	6		3100′		1025′	30		6	30		6	6	9	3	3	3		2	2
270′	27	1	1	3	6		3225′		1075′	30		6	30		6	6	9	3	3	3		2	2
280′	28	1	1	3	6		3350′		1125′	30		6	30		6	6	9	3	3	3		2	2
290′	29	1	1	3	6		3500′		1150′	30		6	30		6	6	9	3	3	3		2	2
300′	30	1	1	3	7		4250′		1200′	36		6	36		6	9	9	3	3	3		2	2
310′	31	1	1	3	7		4400′		1225′	36		6	36		6	9	9	3	3	3		2	2
320′	32	1	1	3	7		4500′		1275′	36		6	36		6	9	9	3	3	3		2	2
330′	33	1	1	3	7		4750′		1325′	36		6	36		6	9	9	3	3	3		2	2
340′	34	1	1	3	8		5725′		1350′	42		6	42		6	9	12	3	3	3		2	2
350′	35	1	1	3	8		4750′	1455′	1400′	36	6	6	36	6	6	9	12	3	3	3		2	2
360′	36	1	1	3	8	1	4750′	1325′	1450′	36	6	6	36	6	6	9	12	3	3	3		2	2
370′	37	1	1	3	8	1	4800′	1375′	1475′	36	6	6	36	6	6	9	12	3	3	3		2	2
380′	38	1	1	3	8	1	5150′	1500′	1525′	36	6	6	36	6	6	9		15	3		3	2	2
390′	39	1	1	3	8	1	5150′	1450′	1550′	36	6	6	36	6	6	9		15	3		3	2	2
400′	40	1	1	3	8	1	5275′	1500′	1600′	36	6	6	36	6	6		9	15		3	3	2	2

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.





Parts List P-608 (Replaces P-587)



55**G** 

### PARTS LIST FOR #55G GUYED TOWERS 90 MPH Basic Wind Speed (No Ice)

Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	BG2142	BG2144	BG2146	5/16″ THH	3/8″ THH	7/16″ THH	1/2TBE&J	5/8TBE&J	GAC345501	AGKE	BGKE
100′	10	1	1	3	3	625′	400′		12	6		12	6		9		3	1	2
110′	11	1	1	3	3	675′	450′		12	6		12	6		9		3	1	2
120′	12	1	1	3	3	725′	500′		12	6		12	6		9		3	1	2
130′	13	1	1	3	3	800′	525′		12	6		12	6		9		3	1	2
140′	14	1	1	3	4	1275′	575′		18	6		18	6		12		3	1	2
150′	15	1	1	3	4	1375′	600′		18	6		18	6		12		3	1	2
160′	16	1	1	3	4	1500′		650′	18		6	18		6	9	3	3	1	2
170′	17	1	1	3	4	1000′	1275′		12	12		12	12		12		3	1	2
180′	18	1	1	3	5	1575′	1425′		18	12		18	12		15		3	1	2
190′	19	1	1	3	5	1650′	700′	775′	18	6	6	18	6	6	12	3	3	1	2
200′	20	1	1	3	5	1725′	725′	825′	18	6	6	18	6	6	12	3	3	1	2
210′	21	1	1	3	5	1825′	750′	850′	18	6	6	18	6	6	12	3	3	1	2

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps, and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.







Parts List P-609 (Replaces P-566)

Tower Height	55G	BPC55G w/3/4X12PP	APL55G	SA253UA	GA55GD	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	BG2142	BG2144	BG2146	5/16″ THH	3/8″ THH	7/16″ THH	3/8TBE&E	1/2TBE&J	5/8TBE&J	GAC 303	GAC345501	GAC565501	AGKE	BGKE
220′	22	1	1	3	6	1925′	800′	900′	24	6	6	24	6	6	6	9	3	3	3		2	2
230′	23	1	1	3	6	2000′	850′	925′	24	6	6	24	6	6	6	9	3	3	3		2	2
240′	24	1	1	3	7	2600′	900′	1000′	30	6	6	30	6	6	9	9	3	3	3		2	2
250′	25	1	1	3	7	2700′	925′	1025′	30	6	6	30	6	6	9	9	3	3	3		2	2
260′	26	1	1	3	7	2825′	1000′	1050′	30	6	6	30	6	6	9	9	3	3	3		2	2
270′	27	1	1	3	8	3625′	1025′	1100′	36	6	6	36	6	6	9		15	3		3	2	2
280′	28	1	1	3	8	2850′	2325′	1150′	30	12	6	30	12	6	9		15	3		3	2	2
290′	29	1	1	3	8	2925′	2350′	1175′	30	12	6	30	12	6	9		15	3		3	2	2
300′	30	1	1	3	8	3175′	1000′	2350′	30	6	12	30	6	12	9		15	3		3	2	2

PARTS LIST FOR #55G GUYED TOWERS 90 MPH Basic Wind Speed (No Ice)

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps, and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.



55G



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Parts List P-610 (Replaces P-555)

### Parts List for #55G Guyed Towers

July 1, 1995

110 MPH Basic Wind Speed (No Ice)

Tower Height	55G	APL55G	BPC55G w/ 3/4X12PP	SA253UA	GA55GD	G.W. 3/16" EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	BG2142	BG2144	BG2146	5/16" THH	3/8" THH	7/16" THH	1/2TBE&J	5/8TBE&J	GAC 345501	GAC 565501	AGKE	BGKE
100'	10	1	1	3	3	300'	325'	400'	6	6	6	6	6	6	6	3	З		1	2
110'	11	1	1	3	3	325'	375'	450'	6	6	6	6	6	6	6	3	3		1	2
120'	12	1	1	3	З	350'	400'	500'	6	6	6	6	6	6	6	3	3		1	2
130'	13	1	1	3	3	375'	425'	525'	6	6	6	6	6	6	6	З	3		1	2
140'	14	1	1	3	4	875'	500'	575'	12	6	6	12	6	6	9	3	3		1	2
150'	15	1	1	3	4	900'	525'	600'	12	6	6	12	6	6	9	3	3		1	2
160'	16	1	1	3	4	950'	550'	650'	12	6	6	12	6	6	9	3	3		1	2
170'	17	1	1	3	4	500'	1175'	700'	6	12	6	6	12	6	9	3	3		1	2
180'	18	1	1	3	5	1000'	1225'	725'	12	12	6	12	12	6		15		3	1	2
190'	19	1	1	3	5	1175'	1425'	775'	12	12	6	12	12	6		15		3	1	2

Items shown above are necessary for a complete "ground" guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

Anchor grounding (AGKE) kit, along with appropriate ground clamps, and base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.











# 65G TOWER



Products for a Growing World of Technology

# Blank

Sheet D-2877 (Replaces D-2787)

#### **65G TOWER**

65G         10' tower section         III' tower section w/guy lugs           % 65G(*)         10' tower section w/guy lugs         III'           % 65G(*)         10' tower section w/guy lugs         III''           % 65G(*)         20' tower section         III''           % 65G(*)         20' tower section         III''           % 652O(*)         20' tower section         III'''           % 652O(*)         20' tower section         III''''''''''''''''''''''''''''''''''	۱	Description	Part No.
# 65GL*         10' tower section w/guy lugs           # 65GL*         10' tower section w/guy lugs           # 65GH*         10' tower section w/guy lugs           # 6520C         20' tower section w/guy lugs           # 6520C+         20' tower section w/guy lugs           # 6520CH*         20' extra heavy tower section           # 6520CH*         20' extra heavy tower section           # 6520CH*         20' extra heavy tower section           # 6520CH*         20' double braced tower section           # 6520DB*         20' double braced tower section           # 6520CH*         20' double braced tower section           # 6520CH*         20' double braced tower section           # 6520CH*         20' double braceed tower section           <		10' tower section	65G
# 65GL*         10' tower section w/ugs for torque arms		10' tower section w/anti-climb	೫ 65ACL
# 65TL*       10' tower section w/lugs for torque arms		10' tower section w/guy lugs	<b>೫</b> 65GL*
# 65GH         10' tower section w/ugs		10' tower section w/lugs for torque arms	<b>೫</b> 65TL*
# 65GHL*       10' tower section w/guy lugs         # 65GHL*       10' tower section w/guy lugs         6520G       20' tower section w/guy lugs         # 6520GL*       20' tower section w/guy lugs         # 6520GHL*       20' tower section w/guy lugs         # 6520GBL*       20' double braced tower section         # 6520DBCL*       20' double braced tower section         # 6520DBCL*       20' double braced tower section         # 6520DBL*       20' double braced tower section         # 6520DHDB       20' double braced tower section         # 6520CHDBB       20' double braced tower section w/guy lugs         # 6520CHDB       20' double braced tower section         # 6550CHD <t< td=""><td></td><td>10' tower section</td><td><b>೫</b> 65GH</td></t<>		10' tower section	<b>೫</b> 65GH
# 65CHTL*       10' tower section w/lugs for torque arms       10'         & 652OG       20' tower section w/guy lugs       10'         # 652OCH*       20' tower section w/lugs for torque arms       10'         # 652OCHT*       20' tower section w/lugs for torque arms       10'         # 652OCHT*       20' tower section w/lugs for torque arms       10'         # 652OCHT*       20' double braced tower section       10'         # 652ODBE       20' double braced tower section       10'         # 652ODBE1*       20' double braced tower section       10'         # 652OCHDBBH*       20' double braced tower section       10'         # 652OCHDBBH*       20' double braced textra heavy tower section       10'         # 652OCHDBH*       20' double braced textra heavy tower section       10'         # 652OCHDBH*       20' double braced textra heavy tower section       10'         # 652OCHDBH*       20' double braced textra heavy tower section       10'         # 652OCHDBH*       20' double braced textra heavy tower section       10'         # 65CGAC       10' toper		10' tower section w/guy lugs	೫ 65GHL*
6520G       20' tower section         № 6520GL*       20' tower section w/guy lugs         № 6520CH       20' tower section w/guy lugs         № 6520CHL*       20' double braced tower section         № 6520DBGL*       20' double braced textra heavy tower section         № 6520CHDBL*       20' double braced extra heavy tower section         № 6520CHDBL*       20' double braced extra heavy tower section         № 657GAL       10' tapered base w/anti-climb         ★ € 65TGAL       10' tapered base for A4722B insulator         ★ № 65TGAL       10' tapered base for A197 insulator         ★ € 55TGH       10' tapered base for A197 insulator         ★ € 55TGAL       10' tapered base for A197 insulator         ★ € 55TGH       10' tapered base bol w/double nuts		10' tower section w/lugs for torque arms	ន 65GHTL*
** 6520GL*       20' tower section w/lugs for torque arms       10         ** 6520GH       20' tower section       10         ** 6520GHL*       20' tower section w/guy lugs       10         ** 6520GHL*       20' tower section w/guy for torque arms       10         ** 6520DBL*       20' double braced tower section       10         ** 6520DBL*       20' double braced tower section       10         ** 6520DBL*       20' double braced tower section       10         ** 6520GHDB       20' double braced tower section       10         ** 6520GHDB       20' double braced extra heavy tower section       10         ** 657GAL       10' tapered base       10         ** 657GIA       10' tapered base       14         *** 657GIAA       10' tapered base for A/12212 insulator       14         *** 657GIAA       10' tapered base for A/127212 insulator       15         *** 657GIAA       10' tapered base for A/197 insulator       15         *** 657GIAA       10' tapered base for A/197       10         S865G       5' short base s		20' tower section	6520G
** 65201*       20' tower section w/lugs for torque arms         ** 6520GH*       20' tower section w/guy lugs         ** 6520GH*       20' tower section w/extra heavy guy lugs         ** 6520GH*       20' tower section w/lugs for torque arms         ** 6520GH*       20' double braced tower section         ** 6520DB       20' double braced tower section         ** 6520DB       20' double braced tower section w/guy lugs         ** 6520DB       20' double braced tower section w/guy lugs         ** 6520DB1*       20' double braced tower section w/guy lugs         ** 6520DB1*       20' double braced tower section         ** 6520DB1*       20' double braced tower section         ** 6520DB1*       20' double braced tower section         ** 6520DHD8       20' double braced extra heavy tower section         ** 6520CHD8       20' double braced extra heavy tower section         ** 6520CHD8       20' double braced extra heavy tower section         ** 6520CHD8       20' double braced extra heavy tower section         ** 6520CHD8       20' double braced extra heavy tower section         ** 6520CHD8       20' double braced extra heavy tower section         ** 657GHD8       10' topered base         ** 65TGA1       10' topered base         ** 15/16X16PP       10' topered base for A4722B insulator		20' tower section w/guy lugs	<b>೫</b> 6520GL*
# 6520GH       20' tower section         # 6520GHL*       20' tower section w/guy lugs         # 6520GHL*       20' tower section w/lugs for torque arms         # 6520GHL*       20' tower section w/lugs for torque arms         # 6520GHL*       20' double braced tower section         # 6520DBG1*       20' double braced tower section         # 6520GHDB       20' double braced tower section         # 6520GHDB       20' double braced tower section         # 6520GHDBH*       20' double braced extra heavy tower section         # 651GAL       10' topered base         # 651GAL       10' topered base w/anti-climb         ** & 65TGIAA       10' topered base for A4722B insulator         ** & 65TGIAA       10' topered base for A4722B insulator         ** & 65TGIAA       10' topered base for A4722B insulator         ** & 51GA       10' topered base for A4722B insulator         ** \$ 51GA       10' topered base for A4722B insulator         ** \$ 51GAA       10' topered base for A4722B insulator         ** \$ 51SA1       10' topered base for		20' tower section w/lugs for torque arms	<b>೫</b> 6520TL*
** 6520GHL*       20' tower section w/guy lugs         ** 6520GHL*       20' tower section w/lugs for torque arms         ** 6520GHL       20' double braced tower section         ** 6520DB       20' double braced tower section         ** 6520DBCL*       20' double braced tower section w/lugs for torque arms         ** 6520DBCL*       20' double braced tower section w/lugs for torque arms         ** 6520DBCL*       20' double braced tower section w/lugs for torque arms         ** 6520DBD       20' double braced tower section         ** 6520DBD       20' double braced tower section         ** 6520DBL*       20' double braced tower section         ** 6520GHDBL*       20' double braced extra heavy tower section         ** 6520GHDBL*       20' double braced extra heavy tower section         ** 6520GHDBL*       20' double braced extra heavy tower section         ** 651GACL       10' topered base         ** 651GACL       10' topered base w/anti-climb         *** 651GAA       10' topered base for A4722B insulator         *** 651GAA       10' topered base for A4722B insulator         *** 651GAA       10' topered base for A4197 insulator         *** 551GAA       10' topered base for A4197 insulator         ** 5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (se		20' tower section	₿ 6520GH
** 6520GHLH*       20' tower section w/extra heavy guy lugs         ** 6520GHT       20' extra heavy tower section         ** 6520DB       20' double braced tower section         ** 6520DBCL*       20' double braced tower section w/guy lugs         ** 6520DBTL*       20' double braced tower section w/guy lugs         ** 6520DBTL*       20' double braced tower section w/guy lugs         ** 6520DBTL*       20' double braced tower section w/guy lugs         ** 6520GHDB       20' double braced tower section         ** 6520GHDBH*       20' double braced tower section         ** 65TG       10' topered base         ** 65TG       10' topered base         ** 65TGAA       10' topered base for A4722B insulator         *** 65TGIAA       10' topered base for A4197 insulator         *** 65TGIAA       10' topered base for A4197 insulator         *** 65TGIBA       10' topered base for A4197 insulator         ** 5/8X12BB       Concrete base bolt w/double nuts         ** 5/8X12BB       Concrete base bolt w/double nuts         ** 5/3BK       Joint bolt kit         CP4A       Cap plates (set of 3) (use when bolting section directly onto concrete)         6ASDD       Guy bracek tassembly         APL14FA       Beccon plate (leg mounted) and two cap plates w/nuts and bolts         A		20' tower section w/guy lugs	# 6520GHL*
** 6520GHTL*       20' tower section w/lugs for torque arms         ** 6520CBH       20' extra heavy tower section         ** 6520DBC*       20' double braced tower section w/guy lugs         ** 6520DBC*       20' double braced tower section w/guy lugs         ** 6520DBT*       20' double braced tower section w/guy lugs         ** 6520DBD*       20' double braced tower section w/guy lugs         ** 6520CHDB       20' double braced tower section         ** 6520CHDB*       20' double braced tower section         ** 6520CHDBH*       20' double braced extra heavy tower section         ** 657G       10' tapered base         *** 65TGAL       10' tapered base         *** 65TGHA       10' tapered base for A4722B insulator         *** 65TGHA       10' tapered base for A4197 insulator         *** 65TGIBA       10' tapered base for A4197 insulator         *** 65TGHA       10' tapered base for A4197 insulator         *** 65TGHA       10' tapered base for A4197 insulator         *** 65TGBA       10' tapered base for A4197 insulator         *** 55KAD       10' tapered base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts) <t< td=""><td>4</td><td>20' tower section w/extra heavy guy lugs</td><td># 6520GHLH*</td></t<>	4	20' tower section w/extra heavy guy lugs	# 6520GHLH*
¥ 6520GHH20' extra heavy tower section¥ 6520DB20' double braced tower section w/guy lugs¥ 6520DB1*20' double braced tower section w/guy lugs for torque arms¥ 6520DB1*20' double braced tower section w/guy lugs for torque arms¥ 6520DB1*20' double braced tower section¥ 6520GHDB20' double braced extra heavy tower section¥ 6520GHDBH*20' double braced extra heavy tower section¥ 651G10' topered base* 8 651GH10' topered base* 8 651GH10' topered base* 8 651GH10' topered base for A4722B insulator* 8 651GHA10' topered base for A4722B insulator* 8 651GHA10' topered base for A4197 insulator* 8 651GHA10' topered base for A4197 insulator* 15/16X16PPPier pin (for 651G or 651GH - one required)\$B65G5' short base section for concrete* 5/8X12BBConcrete base bolt w/double nutsDP65ADrainage plates (set of 3) (use when bolting section directly onto concrete)651BKJoint bolt kitCP4ACap plates (set of 3 w/nuts and bolts)APL4HABeacon plate (1-1/4" O.D. through 8" O.D. legs)GA65GDGuy bracket assemblySA253UASide arm assembly. 2-1/2" to 3' extension, with 2-1/4" O.D. support tubeD1130Side arm assembly.* TA658*Channel torque arm, 8"* TA654*Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		20' tower section w/lugs for torque arms	# 6520GHTL*
** 6520DB       20' double braced tower section         ** 6520DBGL*       20' double braced tower section w/guy lugs         ** 6520DBTL*       20' double braced tower section         ** 6520DBB       20' double braced tower section         ** 6520DBB       20' double braced tower section         ** 6520CHDB       20' double braced extra heavy tower section         ** 6520CHDB       20' double braced extra heavy tower section         ** 6520CHDBLH*       20' double braced extra heavy tower section w/guy lugs         ** 65TG       10' topered base         *** 65TGAL       10' topered base w/anti-climb         *** 65TGHA       10' topered base for A4722B insulator         *** 65TGBA       10' topered base for A4722B insulator         *** 65TGBA       10' topered base for A4727B insulator         *** 65TGBA       10' topered base for A4727B insulator         *** 65TGBA       10' topered base for A4797 insulator         *** 65TGBA       10' topered base for A4728         *** 65TGBA       10' topered base for concrete         *       5/8X128B       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts) <td>(</td> <td>20' extra heavy tower section</td> <td># 6520GHH</td>	(	20' extra heavy tower section	# 6520GHH
** 6520DBGL*       20' double braced tower section w/lugs for torque arms         ** 6520DBTL*       20' double braced heavy tower section         ** 6520GHDB       20' double braced heavy tower section         ** 6520GHDB       20' double braced extra heavy tower section         ** 6520GHDB       20' double braced extra heavy tower section w/guy lugs         ** 65TG       10' tapered base         *** 65TGACL       10' tapered base w/anti-climb         *** 65TGHA       10' tapered base for A4722B insulator         *** 65TGIBA       10' tapered base for A4197 insulator         *** 65TGIBA       10' tapered base for A4197         SB65G       5' short base section for concrete         *       5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         45JBK       Joint bolt kit       CeptaA         Cap plates (s	2	20' double braced tower section	೫ 6520DB
** 6520DBTL*       20' double braced tower section w/lugs for torque arms	4	20' double braced tower section w/guy lugs	# 6520DBGL*
% 6520HDB20' double braced heavy tower section% 6520GHHDB20' double braced extra heavy tower section% 65TG10' tapered base* 65TGACL10' tapered base w/anti-climb*% 65TGH10' tapered base*% 65TGH10' tapered base for A4722B insulator*% 65TGIBA10' tapered base for A4722B insulator*% 65TGIBA10' tapered base for A4722B insulator*% 65TGIBA10' tapered base for A4197 insulator* 15/16X16PPPier pin (for 65TG or 65TGH - one required)SB65G5' short base section for concrete* 5/8X12BBConcrete base bolt w/double nutsDP65ADrainage plates (set of 3) (use when bolting section directly onto concrete)65JBKJoint bolt kitCP4ACap plates (set of 3 w/nuts and bolts)APL1258UMMid beacon plate (1-1/4" O.D. through 8" O.D. legs)GA55GGuy bracket assemblySA253UASide arm assembly.2-1/2" to 3' extension, with 2-1/4" O.D. support tubeD1130Side arm assembly.* TA658*Channel torque arm, 6"* DM654*Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	2	20' double braced tower section w/lugs for torque arms	# 6520DBTL*
% 6520GHHDB20' double braced extra heavy tower section% 6520GHDBLH*20' double braced extra heavy tower section w/guy lugs* 65TG10' tapered base* % 65TGACL10' tapered base w/anti-climb* % 65TGH10' tapered base for A4722B insulator* % 65TGIBA10' tapered base for A4722B insulator* % 65TGIBA10' tapered base for A4727B insulator* 15/16X16PPPier pin (for 65TG or 65TGH - one required)S865G5' short base section for concrete* 5/8X12BBConcrete base bolt w/double nutsDP65ADrainage plates (set of 3) (use when bolting section directly onto concrete)65JBKJoint bolt kitCP4ACap plates (set of 3 w/nuts and bolts)APL4HABeacon plate (leg mounted) and two cap plates w/nuts and boltsAPL1258UMMid beacon plate (1-1/4" O.D. through 8" O.D. legs)GA65GDGuy bracket assemblySA253UASide arm assembly.* TA656*Channel torque arm, 6"* TA658*Channel torque arm, 6"* DM654*Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	2	20' double braced heavy tower section	# 6520HDB
** 6520GHDBLH*       20' double braced extra heavy tower section w/guy lugs	7	20' double braced extra heavy tower section	# 6520GHHDB
★ 65TG       10' tapered base         ★≋ 65TGACL       10' tapered base w/anti-climb         ★≋ 65TGH       10' tapered base         ★≋ 65TGIAA       10' tapered base for A4722B insulator         ★≋ 65TGIBA       10' tapered base for A4197 insulator         ★≋ 65TGIBA       10' tapered base for A4197 insulator         ★ 15/16X16PP       Pier pin (for 65TG or 65TGH - one required)         SB65G       5' short base section for concrete         ★ 5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly. 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly.         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	8	<ul> <li>20' double braced extra heavy tower section w/guy lugs</li> </ul>	86520GHDBLH*
★≋ 65TGACL       10' tapered base w/anti-climb         ★≋ 65TGH       10' tapered base         ★≋ 65TGIAA       10' tapered base for A4722B insulator         ★≋ 65TGIBA       10' tapered base for A4197 insulator         ★≋ 65TGIBA       10' tapered base for A4197 insulator         ★ 15/16X16PP       Pier pin (for 65TG or 65TGH - one required)         \$865G       5' short base section for concrete         ★ 5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (l-1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         Side arm assembly       2         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"	-	10' tapered base	★ 65TG
*#8 65TGH       10' tapered base         *88 65TGIAA       10' tapered base for A4722B insulator         *88 65TGIBA       10' tapered base for A4197 insulator         *88 65TGIBA       10' tapered base for A4197 insulator         *15/16X16PP       Pier pin (for 65TG or 65TGH - one required)         SB65G       5' short base section for concrete         * 5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly.         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		10' tapered base w/anti-climb	★≌ 65TGACL
*88 65TGIAA       10' tapered base for A4722B insulator         *88 65TGIBA       10' tapered base for A4197 insulator         * 15/16X16PP       Pier pin (for 65TG or 65TGH - one required)         SB65G       5' short base section for concrete         * 5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly. 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"		10' tapered base	★≌ 65TGH
★ 38 65TGIBA       10' tapered base for A4197 insulator         ★ 15/16X16PP       Pier pin (for 65TG or 65TGH - one required)         SB65G       5' short base section for concrete         ★ 5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly. 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         ★ TA656*       Channel torque arm, 6"         ◆ TA658*       Channel torque arm, 8"         ◆ DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		10' tapered base for A4722B insulator	★≌ 65TGIAA
<ul> <li>★ 15/16X16PP Pier pin (for 65TG or 65TGH - one required)</li> <li>SB65G 5' short base section for concrete</li> <li>★ 5/8X12BB Concrete base bolt w/double nuts</li> <li>DP65A Drainage plates (set of 3) (use when bolting section directly onto concrete)</li> <li>65JBK Joint bolt kit</li> <li>CP4A Cap plates (set of 3 w/nuts and bolts)</li> <li>APL4HA Beacon plate (leg mounted) and two cap plates w/nuts and bolts</li> <li>APL1258UM Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)</li> <li>GA65GD Guy bracket assembly</li> <li>SA253UA Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube</li> <li>D1130 Side arm assembly</li> <li>TA656* Channel torque arm, 6"</li> <li>TA658* Channel torque arm, 8"</li> <li>DM654* Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe</li> </ul>		10' tapered base for A4197 insulator	★≌ 65TGIBA
SB65G       5' short base section for concrete         ★       5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         ◆       TA656*         Channel torque arm, 6"         ◆       TA658*         Channel torque arm, 8"         ◆       DM654*		Pier pin (for 65TG or 65TGH - one required)	★ 15/16X16PP
★       5/8X12BB       Concrete base bolt w/double nuts         DP65A       Drainage plates (set of 3) (use when bolting section directly onto concrete)         65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         ◆       TA656*         Channel torque arm, 6"         ◆       TA658*         Channel torque arm, 8"         ◆       DM654*		5' short base section for concrete	SB65G
DP65ADrainage plates (set of 3) (use when bolting section directly onto concrete)65JBKJoint bolt kitCP4ACap plates (set of 3 w/nuts and bolts)APL4HABeacon plate (leg mounted) and two cap plates w/nuts and boltsAPL1258UMMid beacon plate (1-1/4" O.D. through 8" O.D. legs)GA65GDGuy bracket assemblySA253UASide arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tubeD1130Side arm assembly* TA656*Channel torque arm, 6"* TA658*Channel torque arm, 8"* DM654*Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Concrete base bolt w/double nuts	★ 5/8X12BB
65JBK       Joint bolt kit         CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Drainage plates (set of 3) (use when bolting section directly onto concrete)	DP65A
CP4A       Cap plates (set of 3 w/nuts and bolts)         APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (l-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	4-	Joint bolt kit	65JBK
APL4HA       Beacon plate (leg mounted) and two cap plates w/nuts and bolts         APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Cap plates (set of 3 w/nuts and bolts)	CP4A
APL1258UM       Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)         GA65GD       Guy bracket assembly         SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Beacon plate (leg mounted) and two cap plates w/nuts and bolts	APL4HA
GA65GD       Guy bracket assembly         SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Mid beacon plate (1-1/4" O.D. through 8" O.D. legs)	APL1258UM
SA253UA       Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube         D1130       Side arm assembly         * TA656*       Channel torque arm, 6"         * TA658*       Channel torque arm, 8"         * DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Guy bracket assembly	GA65GD
D1130       Side arm assembly         TA656*       Channel torque arm, 6"         TA658*       Channel torque arm, 8"         DM654*       Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Side arm assembly, 2-1/2' to 3' extension, with 2-1/4" O.D. support tube	SA253UA
<ul> <li>◆ TA656* Channel torque arm, 6"</li> <li>◆ TA658* Channel torque arm, 8"</li> <li>◆ DM654* Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe</li> </ul>		Side arm assembly	D1130
<ul> <li>◆ TA658* Channel torque arm, 8"</li> <li>◆ DM654* Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe</li> </ul>		Channel torque arm, 6"	✤ TA656*
✤ DM654* Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Channel torque arm, 8"	◆ TA658*
		Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	♦ DM654*
♦ DM654TB* Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe and tie back angle		Face dish mount w/4" (4-1/2" O.D.) 5' long standard pipe and tie back angle	♦ DM654TB*
♦≈ KY509 Leg dish mount w/2" standard 5' long standard pipe		Leg dish mount w/2" standard 5' long standard pipe	♦೫ KY509
♦ KY510 Leg dish mount w/4" (4-1/2" O.D.) 5' long standard pipe		Leg dish mount w/4" (4-1/2" O.D.) 5' long standard pipe	♦ KY510
# WPCC65 Work platform		Work platform	#WPCC65

If ANCO nuts are required, add "AN" to part number.

Final digit(s) in part number determined by distance in feet from base to lug. See appropriate engineering drawing for elevations.

Available by special order only. 88

Towers mounted on this base must be guyed at all times.
 This item is not to be used without proper design consideration.

Inis item is not to be used without proper design consideration.
Do not install towers and masts near power lines. All towers or masts should be installed twice the height of installation away from power lines since every electrical wire must be considered dangerous. ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers. All towers should be installed and dismantled by experienced and trained personnel. All types of antenna installations should be thoroughly inspected by qualified personnel and re-marked with hazard and warning labels at least twice a year to insure safety and proper performance. All antenna 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 supplied by ROHN. Material used by the so-called copies are not the same quality and have not been tested or engineered by ROHN to conform to the same quality standards. Mixing of non-ROHN items may endanger the lives of your customers and cause serious tower failure and financial misfortune for all connected.

Prices available on request.

Specifications subject to change without notice. F.O.B. Peoria, Illinois







Parts List P-601 (Replaces P-567)

65G	

							•						
Tower Height	GA65GD	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	BG2142	BG2144	BG2146	5/16″ THH	3/8″ THH	7/16″ THH	1/2TBE&J	5/8TBE&J	GAC345501
100′	2			400′			6		6	6	3	3	3
110′	2	325′		450′	6		6	6		6	3	3	3
120′	2	375′		475′	6		6	6		6	3	3	3
130′	2	400′		525′	6		6	6		6	3	3	3
140′	3	850′		550′	12		6	12		6	6	3	3
150′	3	900′		600′	12		6	12		6	6	3	3
160′	3	1000′		650′	12		6	12		6	6	3	3
170′	3	1025′		675′	12		6	12		6	6	3	3
180′	3	500′	600′	725′	6	6	6	6	6	6	6	3	3
190′	3	525′	625′	775′	6	6	6	6	6	6	6	3	3
200′	3	550′	650′	800′	6	6	6	6	6	6	6	3	3
210′	4	1200′	725′	850′	12	6	6	12	6	6	9	3	3
220′	4	1250′	750′	875′	12	6	6	12	6	6	9	3	3
230′	4	1300′	800′	925′	12	6	6	12	6	6	9	3	3

# PARTS LIST FOR #65G GUYED TOWERS 70 MPH Basic Wind Speed (No Ice)

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kit, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.


65G



65G-4



Parts List P-602 (Replaces P-568)

## PARTS LIST FOR #65G GUYED TOWERS 70 MPH Basic Wind Speed (No Ice)

Tower Height	GA65GD	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	G.W. 3/8″ EHS	BG2142	BG2144	BG2146	BG2147	5/16″ THH	3/8″ THH	7/16″ THH	1/2″ THH	3/8TBE&E	1/2TBE&E	1/2TBE&J	5/8TBE&J	GAC303	GAC3455	GAC565501
240′	4	1375′	1000′	975′		12	6	6		12	6	6				9	3		3	
250′	4	1425′	1000′	1000′		12	6	6		12	6	6				9	3		3	
260′	4	1500′	1000′	1050′		12	6	6		12	6	6				9	3		3	
270′	5	2325′	1000′	1075′		18	6	6		18	6	6				12	3		3	
280′	5	2500′	1000′	1125′		18	6	6		18	6	6				12	3		3	
290′	5	2500′		2200′		18		12		18		12					15			3
300′	5	2775′		2275′		18		12		18		12					15			3
310′	5	2775′		2350′		18		12		18		12					15			3
320′	5	2800′		2425′		18		12		18		12					15			3
330′	6	2850′		2525′		24		12		24		12		6			12	3		3
340′	6	2925′		2600′		24		12		24		12		6			12	3		3
350′	6	3125′		2675′		24		12		24		12		6			12	3		3
360′	6	2625′	500′	2775′		18	6	12		18	6	12		3	3		12	3		3
370′	6	2750′	500′	1350′	1500′	18	6	6	6	18	6	6	6	3	3		12	3		3

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, one APL1258UM (towers over 350'), three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

65G



Parts List P-603 (Replaces P-575)

## PARTS LIST FOR #65G GUYED TOWERS 70 MPH Basic Wind Speed (No Ice)

Tower Height	GA65GD	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	G.W. 3/8″ EHS	BG2142	BG2144	BG2146	BG2147	5/16″ THH	3/8″ THH	7/16″ THH	1/2″ THH	3/8TBE&E	1/2TBE&E	1/2TBE&J	5/8TBE&J	GAC303	GAC3455	GAC565501
380′	6	1525′	1775′	1375′	1400′	12	12	6	6	12	12	6	6	3	3		12	3		3
390′	7	3650′	725′	3025′		24	6	12		24	6	12		6	3		12	3		3
400′	7	2325′	2225′	1475′	1625′	18	12	6	6	18	12	6	6			9	12		3	3
410′	7	2325′	2250′	1525′	1650′	18	12	6	6	18	12	6	6			9	12		3	3
420′	7	2400′	2250′	1550′	1700′	18	12	6	6	18	12	6	6			9	12		3	3
430′	7	2450′	2250′	1600′	1750′	18	12	6	6	18	12	6	6			9	12		3	3
440′	7	2675′	2275′	1625′	1775′	18	12	6	6	18	12	6	6			9	12		3	3
450′	8	2350′	3725′	1700′	1825′	18	18	6	6	18	18	6	6	6	3		15	3		3
460′	8	1025′	5250′	1725′	1850′	12	24	6	6	12	24	6	6	6	3		15	3		3
470′	8	2500′	4000′	1775′	1900′	18	18	6	6	18	18	6	6			9	15		3	3
480′	8	2675′	4000′	1800′	1950′	18	18	6	6	18	18	6	6			9	15		3	3
490′	8	2675′	4000′	1850′	1975′	18	18	6	6	18	18	6	6			9	15		3	3
500′	8	2675′	4250′	1875′	2025′	18	18	6	6	18	18	6	6			9	15		3	3

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, one APL1258UM (towers over 350'), three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.







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### July 1, 1995

Parts List P-604 (Replaces P-585)

Tower Height	GA65GD	G.W. 3/16″ EHS	G.W. 1/4″ EHS	G.W. 5/16″ EHS	BG2142	BG2144	BG2146	5/16″ Thh	3/8″ Thh	7/16″ Thh	1/2TBE&J	5/8TBE&J	GAC3455	GAC565501	
100′	2		300′	400′		6	6		6	6	3	3	3		
110′	2		325′	425′		6	6		6	6	3	3	3		
120′	2		375′	475′		6	6		6	6	3	3	3		
130′	2		400′	525′		6	6		6	6	3	3	3		
140′	3	400′	450′	550′	6	6	6	6	6	6	6	3	3		
150′	3	425′	500′	600′	6	6	6	6	6	6	6	3	3		
160′	3	450′	525′	650′	6	6	6	6	6	6	6	3	3		
170′	3	500′	550′	675′	6	6	6	6	6	6	6	3	3		
180′	3	500′	600′	725′	6	6	6	6	6	6	6	3	3		
190′	3	525′		1375′	6		12	6		12	3	6	3		
200′	3	550′		1425′	6		12	6		12	3	6	3		
210′	4	1200′		1550′	12		12	12		12	6	6	3		
220′	4	600′	650′	1625′	6	6	12	6	6	12		12		3	
230′	4	625′	700′	1700′	6	6	12	6	6	12		12		3	

## PARTS LIST FOR #65G GUYED TOWERS 90 MPH Basic Wind Speed (No Ice)

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.









Parts List P-605 (Replaces P-570)

Tower Height	GA65GD	G.W. 3/16″ EHS	G.W. 1/4" EHS	G.W. 5/16" EHS	G.W. 3/8″ EHS	BG2142	BG2144	BG2146	BG2147	5/16″ THH	3/8″ Thh	7/16″ THH	1/2″ THH	1/2TBE&J	5/8TBE&J	GAC3455	GAC565501
240′	4	650′	725′	1775′		6	6	12		6	6	12			12		3
250′	4	675′	750′	875′	1000′	6	6	6	6	6	6	6	6		12		3
260′	4	700′	775′	900′	1050′	6	6	6	6	6	6	6	6		12		3
270′	5	725′	1625′	975′	1075′	6	12	6	6	6	12	6	6		15		3
280′	5	750′	1675′	1000′	1125′	6	12	6	6	6	12	6	6		15		3
290′	5	775′	1750′	1050′	1175′	6	12	6	6	6	12	6	6		15		3
300′	5	800′	1800′	1075′	1200′	6	12	6	6	6	12	6	6		15		3
310′	5	825′	1875′		2350′	6	12		12	6	12		12		15		3
320′	5	850′	1925′		2425′	6	12		12	6	12		12		15		3
330′	6		2875′		2525′		24		12		24		12	6	12	3	3
340′	6	350′	2350′	450′	2600′	6	12	6	12	6	12	6	12	3	15	3	3
350′	6	350′	1050′	1625′	2675′	6	6	12	12	6	6	12	12	3	15	3	3

## PARTS LIST FOR #65G GUYED TOWERS 90 MPH Basic Wind Speed (No Ice)

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, three D1130, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.





65G



Tower	70 MPH Basic Wind Spe	eed — 1/2' Ice	90 MPH Basic Wind Spe	ed — 1/2' Ice
Height	Part Number	Weight	Part Number	Weight
100′	np 65G70F100ICE	2230	np 65G90F100ICE	2273
110′	np 65G70F110ICE	2413	np 65G90F110ICE	2461
120′	np 65G70F120ICE	2661	np 65G90F120ICE	2713
130′	np 65G70F130ICE	2859	np 65G90F130ICE	2900
140′	np 65G70F140ICE	3145	np 65G90F140ICE	3533
1 <i>5</i> 0′	np 65G70F150ICE	3349	np 65G90F150ICE	3726
160′	np 65G70F160ICE	3567	np 65G90F160ICE	3949
170′	np 65G70F170ICE	3759	np 65G90F170ICE	4227
180′	np 65G70F180ICE	3973	np 65G90F180ICE	4493
190′	np 65G70F190ICE	4354	np 65G90F190ICE	4746
200′	np 65G70F200ICE	4577		
210′	np 65G70F210ICE	5076		
220′	np 65G70F220ICE	5300		
230′	np 65G70F230ICE	5490		
240′	np 65G70F240ICE	5866		
250′	np 65G70F250ICE	6132		
260′	np 65G70F260ICE	6362		
270′	np 65G70F270ICE	6732		
280′	np 65G70F280ICE	6962		
290′	np 65G70F290ICE	7182		

## **COMPLETE ROHN 65G GUYED TOWERS**



65G



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## PARTS LIST FOR #65G GUYED TOWERS 90 MPH Basic Wind Speed (1/2" Ice)

TOWER		G.W.	G.W.	G.W. 3/8"	G.W.					3 /8"	7/16"	1/2"	0/16"	1/2TR	5 / 8TR	GAC 3/4TR	GAC	5755
HEIGHT	GA65GD	EHS	EHS	EHS	EHS	BG2144	BG2146	BG2147	BG2148	THH	THH	THH	THH	E&J	E&J	E&J	TOP	TOP
100'	2	350'		400'		6		6		6		6		3	3		3	
110'	2	350'		450'		6		6		6		6		3	3		3	
120'	2		400'	500'			6	6			6	6			6		3	
130'	2		400'	550'			6	6			6	6			6		3	
140'	3	400'	500'	600'		6	6	6		6	6	6				9		3
150'	3	450'	500'	650'		6	6	6		6	6	6				9		3
160'	3	500'	550'	700'		6	6	6		6	6	6				9		3
170'	3	500'	600'		700'	6	6		6	6	6		6			9		3
180'	3		1150'		750'		12		6		12		6			9		3
190'	3		550'	650'	800'		6	6	6		6	6	6			9		3

Items shown above, plus one 65TG, one 15X16PP, one APL4HA, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGKE) kits, along with appropriate ground clamps, and two base grounding (BGKE) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.



65G



TIMIT.

## PARTS LIST FOR #65G GUYED TOWERS 110 MPH Basic Wind Speed (No Ice)

							370023	370025	370027								
		G.W.	G.W.	G.W.	G.W.		GC65136	GC65128	GC65264							GAC	GAC
TOWER		3/16"	1/4"	5/16"	3/8"		(KITS)	(KITS)	(KITS)	5/16"	3/8"	7/16"	1/2"	1/2TB	5/8TB	3455	5655
HEIGHT	GA65GD	EHS	EHS	EHS	EHS	BG2142	BG2144	BG2146	BG2147	THH	THH	THH	THH	E&J	E&J	TOP	TOP
100'	2		350'	400'			6	6			6	6		3	3	3	
110'	2		350'		450'		6		6		6		6	3	3	3	
120'	2			400'	500'			6	6			6	6		6	3	
130'	2			400'	550'			6	6			6	6		6	3	
140'	3	400'		500'	600'	6		6	6	6		6	6	3	6	3	
150'	3	450'		500'	650'	6		6	6	6		6	6		9		3
160'	3		500'	550'	700'		6	6	6		6	6	6		9		3
170'	3		500'	600'	700'		6	6	6		6	6	6		9		3
180'	3		550'	650'	750'		6	6	6		6	6	6		9		3
190'	3		550'	650'	800'		6	6	6		6	6	6		9		3

Items shown above, plus one 65TG, one 15/16X16PP, one APL4HA, and required number of 6520G and 65G sections, are necessary for a complete 'ground' guyed tower. (Note: Cable clamps and extra wire have been provided for turnbuckle safety requirements.)

One or two anchor grounding (AGK1G) kits, along with appropriate ground clamps, and two base grounding (BGKE1G) kits, as recommended by EIA, are included with the tower material.

Installation information and a safety package (part number ACWS) are also included with the tower material. The safety package consists of one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.







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## G SERIES ACCESSORIES



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## DBS TOWER MOUNT For Today's New Generation of Reception Dishes

Supports most all major DBS antenna brands.

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Sher	JIIICU	

Model	Mast Specifications
KY2068A15	1.5" O.D. Mast
KY206816	1.66" O.D. Mast
KY2068A2	2" STD I.D. Mast 2 3/8" O.D. Mast
DDM150	1.5" O.D. Mast
DDM166	1.66" O.D. Mast
DDM238	2" STD. I.D. Mast 2 3/8" O.D. Mast

The DBS Tower Mount for 25G towers is one of the latest additions to the complete line of ROHN antenna support products. Other receive antenna mounts include gable end mounts, tripod mounts, telescoping masts, towers wall brackets, and non-penetrating roof mounts.

The mont goes together quickly, with a minimum of bolted connections. The angle steel cross members connect directly to the tower legs with easy-to-use u-bolts.

This mount is either available in a hot dip galvanized or pre-galvanized finish.

Disassembled, the lightweight **UPS Shippable** mount stores in very small spaces with the angle members nested.

Varied mast diameters are available to provide for mounting most current DBS dishes.



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ASSEMBLY P/N GA656D BILL OF MATERIAL ITEM OTY PART NO. DESCRIPTION DWO NO. 1 3 B6560 GUY BRACKET COTTON	2     3     JRBIOA     1/2"     U-BOLT     ASSY     B651028       3     6     JR655A     1/2"     U-BOLT     ASSY     B710909	GENERAL NOTES 1. 2 UPPERMOST U-BOLTS MUST INTERCONNECT WITH ZIG-ZAG BRACES AS SHOWN. 2. BRACKET DESIGNED FOR A MAXIMUM 7.5 * KIPS VERTICAL DOWNPULL. 3. MAXIMUM THIMBLE SIZE = 9/16" HVY	* MAXIMUM DOWNPULL CAPACITY BASED ON ANSIYEIA-222-E-1991.	REV. E. WAS REV.D RI ADDED CAPACITY NOTE 3-27-91 CSR No.A Revision Description Description UNR-Rohn	"GUY BRACKET ASSEMBLY FOR 656 TOWERS	$\begin{array}{c c} \hline MONE \\ \hline Drawn by RF/MDU \\ \hline Drawnb$	Appropriated of Sales Date Drawing Number BB70900R 2
			- TTEN - 3		L TTEN 12		

G Series Accessories







BIL OF MATERIL       Induction     BIL OF MATERIL       Induction     Descention       Induction     Descenter <th< th=""><th>Mo. A Provinsion Description Mo. A Provinsion Description This D</th></th<>	Mo. A Provinsion Description Mo. A Provinsion Description This D
(dul) VOEIDOI 2 MA (dul) VOEIDOI 2 MA	NOTE: THIS SIDE ARN IS DESIGNED FOR AN ALLOWABLE LODDING OF 100 LBS LATERAL THAGST TOTAL TOWER, LOAD MUST NOT EXCEED CAPACITY OF 256 TOWER, LOAD MUST NOT EXCEED CAPACITY
	NOTE: OUTSTANDING LEG OF TOWER HAS BEEN OWITTED FOR CLARITY NOTE: MOUNTING ANGLE MUST DE MOUNTED AS CLOS TO LEG/BRACE INTERSECTION AS POSSIBLE.













C850315 R1

**Drawing Numbe** 

3-13-85

Approved by Sales

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 File Number

Approved by Engineering

B651028 C770404 C770404 N/A C770404

U-BOLT ASSEMBLY 5/8 X 4 BOLT FFULLY THREADED) 7/16 X 2-1/2 BOLT ASSEMBLY 5/8 THVY. HEX. NUT 5/16 X 2 3/8 BOLT ASSEMBLY

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G Series Accessories





## G Series Bracketed Towers



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March 1, 1989

Sheet D-2530 (Replaces D-2445)



## **<u>REFERENCE</u>** SHEET AND ASSEMBLY INFORMATION <u>G</u> SERIES BRACKETED TOWERS, NON-GUYED (See Rohn Catalog for Guyed Tower Information)

<u>INSTALLATION</u>: Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast and antenna combined. Tower should be installed and dismantled by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

BASE: See Drawing No. A880445 for the size of the hole for concrete placement. (Note: For cases of loose soil, etc., the hole must be larger.) Spread about 2" to 6" of gravel in bottom of hole prior to setting short base or tower section. After setting short base or tower section on gravel, fill another 3" with gravel around the tower legs. This allows the tower legs to extend the required amount below the bottom of the concrete, thus allowing for drainage of moisture into the gravel. The first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

<u>HEIGHT OF TOWER & BRACKET USES</u>: See Drawing No. A880496 for specific information on tower heights and placement of house brackets on #45 bracketed towers. (Note: Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.)

<u>BOLTS:</u> Installers are urged to use a 10" lining-up punch that tapers about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

<u>MISCELLANEOUS</u>: Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section or any part of a section at one time. Erection fixtures are not intended to be used for lifting individuals. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower.

CAUTION ... Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more than 40' of #45 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any type of hinge base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

See Drawing No. A871266 for more information on non-guyed towers.

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Our catalog information excludes roof installations. Local engineers must be consulted to determine adequate base and anchor details and windload criteria for all roof type installations.

<u>Note:</u> All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance. A safety package (part number ACWS) is available which includes one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture. Temporary steel guys may be necessary at the 10' level.

<u>Part Number</u>	
BRKT040	40' Complete Bracketed Tower
BRKT050	50' Complete Bracketed Tower
BRKT060	60' Complete Bracketed Tower
BRKT070	70' Complete Bracketed Tower
BRKT080	80' Complete Bracketed Tower
BRKT090	90' Complete Bracketed Tower
BRKT100	100' Complete Bracketed Tower

Refer to alphabetical/numerical price list for Prices on Complete Bracketed Towers. Specifications subject to change without notice.

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**G** Series

**Bracketed Towers** 

-	7					_		_
4S (SQ.FT.)	90 MPH	7.7	6.8	5.9	5.5	5.0		
NTENNA AREA	HUM 08	11.3	10.0	8.9	<i>B.</i> 3	7.7	4.9	
ALLOWABLE /	70 MPH	15.3	14.6	14.0	13.5	13.1	6.8	1.7
ELEVATION	LOWER (FT)	15.0	18.0	23.0	28.0	33.0	33.0	33.0
BRACKET	UPPER (FT)	30.0	36.0	46.0	56.0	66.0	66.0	66.0
TOWER	rie Ion I FT	40	50	60	70	80	90	100

IUMER LESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E. ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED. DESIGNS ASSURE ONE 5/8" TRANSMISSION LINE ON EACH FACE. (TOTAL =3), SYMMETRICALLY PLACED. DESIGNS ASSURE ONE 5/8" TRANSMISSION LINE ON EACH FACE. (TOTAL =3), SYMMETRICALLY PLACED. ALLOWARLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS. ALLOWARLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MALTIPLYING AREAS SHOWN BY 0.6. DO NOT INSTALL OR DISMANTLING MUST BE BY GUALIFIED AND EXPERIENCED PERSONNEL. INSTALL WARNING PLATE (P/N ACUS) IN A HIGHLY VISIBLE LOCATION. AREAS APPONDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. INSTALL WARNING PLATE (P/N ACUS) IN A HIGHLY VISIBLE LOCATION. AREAS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALLENDATION DETAILS SEE DRAWING BASIZED. INSTALL WARNING PLATICONE MENDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL. ALL BRACKETS ARE TO BE ROWN PNN HBUTYRO PER DRAWING DESOZAL.

DATE: 3/17/88 BY: RAM

DATE: 3/17/88 CHECKED: AED

DWG. NO. AB71302R1

G Series Bracketed Towers




ROHN

ICE NO 456 BRACKETED TOWERS -CN

(SQ.FT. )	90 MPH	21.0	20.0	19.0	17.0	12.0	5.3	
TENNA AREAS	BO MPH	27.4	25.9	24.7	<i>2</i> 3. <i>B</i>	23.0	9.3	2.0
ALLOWABLE AN	70 MPH	36.7	34.B	33.3	32.0	31.0	13.8	5.5
LEVATION	LOWER (FT)	15.0	18.0	23.0	28.0	33.0	33.0	33.0
BRACKET EI	UPPER (FT)	30.0	36.0	46.0	56.0	66.0	66.0	66.0
TOWER HEIGHT	(FT)	40	50	60	70	80	06	100

- TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E. . '
- PINNED BASES MUST NOT BE USED. ALL TOWERS MUST HAVE "FIXED BASES". NM
  - DESIGNS ASSUME ONE 1/2" & ONE 7/8" TRANSMISSION LINE ON EACH FACE, (TOTAL=6), SYMMETRICALLY PLACED. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER APEX.
    - 4.
- ыю
- ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS. ALLOWABLE FLAT-PLATE AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES. ~
- TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL. ω.
  - INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION *б* 
    - ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. FOR FOUNDATION DETAILS SEE DRAWING ABB0445. ALL BRACKETS ARE TO BE ROHN P/N HBUTVRO PER DRAWING DB50221. 10.
      - 11.
- 12. 13.
- INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS TO BE DESIGNED OTHERS" AND MUST SUPPORT A MINIMUM HORIZONTAL FORCE OF 1810 POUNDS. THE BY

DATE: 3/17/88

DWG.ND. A880496R2

G Series Bracketed Towers







**G** Series

Bracketed Towers

sa. FT.)	HdM 06	41.8	39.4	37.6	36.0	34.6	16.0	6.4
BLE ANTENNA AREAS (	80 MPH	54.5	51.7	49.5	47.5	46.0	22.0	10.5
ALLOWA	70 MPH	72.4	68.7	65.8	63.5	61.4	30.6	16.0
LEVATION	LOWER FT	15.0	18.0	23.0	28.0	33.0	33.0	33.0
BRACKET E	UPPER FT	30.0	36.0	46.0	56.0	66.0	66.0	66.0
TOWER	HEIGHT FT	40	50	60	70	80	06	100

TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E.

ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED.

DESIGNS ASSUME TWO 7/8" TRANSMISSION LINES ON EACH FACE, (TOTAL = 6), SYMMETRICALLY PLACED.

ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER APEX. ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS. ALLOWABLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS 

SHOWN BY 0.6

DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL. 

INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.

11. FOR FOUNDATION DETAILS SEE DRAWING A880446.

12. ALL BRACKETS ARE TO BE ROHN P/N HBUTVRO PER DRAWING D850221. 13. THE INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS T

THE INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS TO BE DESIGNED "BY OTHERS" AND MUST SUPPORT A MINIMUM HORIZONTAL FORCE OF 3200 POUNDS.

DATE: 3/17/98 DWG. NO. A880497RI CHECKED: ASA DATE: 3//7/88 BY: RAM

G Series Bracketed Towers





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### G Series Self Support Towers



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#55	#65	#25	#45	#55	#65	#25	#45	#55	#65	#25	#45	#55	#65	#25	#45	#55	#65	#25	#45
75.0	175.9	22.8	55.0	99.0	231.4	14.3	30.0	57.0	133.0	15.5	40.0	74.0	174.3	10.5	25.0	45.0	103.6	10.5	30.0
43.0	117.0	14.4	25.0	52.0	150.0	9.0	16.0	30.0	85.0	7.1	16.0	35.0	105.0	6.9	11.0	23.0	65.0	2.1	10.0
26.0	76.2.	2.5	9.0	27.0	95.0	3.7	7.5	17.0	55.8	0.0	2.7	16.0	65.0	1.7	4.0	12.0	40.0	0.0	0.0
21.9	61.2	0.0	4.7	22.2	76.4	1.4	4.7	14.5	44.0	0.0	0.0	12.4	53.4		1.9	9.4	32.2		0.0
15.0	48.8	0.0	0.0	8.0	59.1		1.4	8.0	34.1		0.0	2.5	39.0			4.0	24.1		
11.4	39.0			5.5	45.7			5.9	26.2			0.0	28.8			2.2	17.7		
6.5	29.3			0.0	33.5			1.5	19.7			0.0	19.1				14.5		
4.0	24.4			0.0	25.0				14.5				11.4				7.7		
0.8	18.4	1	ŕ	0.0	16.0				9.4				4.1				3.3		

85.0 49.0

26.0 9.0 5.7

135.0

57.0

#65

#55

ICE (NOTE 7)

1/2"

NO ICE

1/2" ICE (NOTE 7)

NO ICE

1/2" ICE (NOTE 7)

NO ICE

12.0

**8.4** 3.6

8.7 5.1 2.3

1.5

50. 55' ŝ 2

45:

42.5 22.0

19.7 14.2

#45

#25

Ħ. 5 20. 30. 35' **6** 

70 MPH

**80 MPH** 

**H**dM 06

25.0

0.0

37.7

17.2 8.0 2.6 0.0

0.0

3.3

4.1 0.0

9.4 1.3

SELF-SUPPORTING TOWERS - ALLOWABLE ANTENNA AREAS (SQ. FT.) ROHN

TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-E.

0.0 1.9

0.9 8.7

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ALL TOWERS MUST HAVE "FIXED" BASES. PINNED BASES MUST NOT BE USED. -- ~i ~i

#45 TOWER - ONE 7/8" AND ONE 1/2" LINE ON EACH FACE (TOTAL = 3 @ 7/8" & 3 @ 1/2"). DESIGNS ASSUME TRANSMISSION LINES SYMMETRICALLY PLACED AS FOLLOWS: #25 TOWER - ONE 5/8" LINE ON EACH FACE (TOTAL = 3). #55 & #65 - TWO 7/8" LINES ON EACH FACE (TOTAL = 6).

- - ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER APEX.
    - ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS.
- ALLOWABLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6. 4.0.0.4
  - FOR WIND SPEEDS WITH ICE, THE AREAS SHOWN INCLUDE 1/2" RADIAL ICE. ANTENNA AREAS WITHOUT ICE MUST VOT EXCEED THE AREAS SHOWN FOR THE NO ICE CONDITION.
    - DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES. ര് റ്
      - TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.

        - INSTALL WARNING PLATE (PIN ACWS) IN A HIGHLY VISIBLE LOCATION. <u>o</u>
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. 11.
  - FOR FOUNDATION DETAILS SEE DRAWING B870725. 5.

DATE: 9-24-87 CHECKED: ASA DATE: 9/24/87 BY: P.A.M.





GSS-2



## 80/90 SERIES



PRODUCTS FOR A GROWING WORLD OF TECHNOLOGY





## 80/90 SERIES

#### UNBEATABLE STRENGTH UP TO 1000 FEET

The 80/90 Series Towers are 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 installation up to 1000 feet, using variable size and weight of tubular or solid steel components. Each 80/90 tower is individually engineered to meet the stringent specifications of your particular job.

The 80/90 Series ROHN Towers are constructed in an equilateral triangular pattern with either steel pipe or solid steel legs and tubular or angle steel cross bracing with bolted construction. The triangular size is 41" on leg centers for the No. 80 Tower and 60.5" on leg centers for the No. 90 Tower. The diameter of the tower legs vary to meet the requirements of the installation. This feature permits considerable flexibility in supplying a tower tailored to specifically meet and adequately handle the equipment to be installed.



### "X" BRACE DESIGN

The "X" brace design of the 80/90 Series maximizes strength in critical areas as well as allows for future upgrading of the tower for additional loads. And Hot Dip Galvanizing all components after fabrication adds strength and durability. This protects all areas of the tower with a minimum of 2 ounces of molten zinc per square foot of surface applied throughout.

There are four towers in all that make up the 80/90 series, each with their unique benefits. The variations are the #80 Tower Pipe, the #80 Tower Solid, the #90 Tower Pipe, and the #90 Tower Solid.

The #80 Tower Pipe (#80) is a guyed tower with a 41" face. It's designed for individual needs, making it the most economical structure that will still meet your exacting standards for a multiple use tower.

The #80 Tower Solid (#80SR) is a solid member guyed tower with a 41" face. This tower is custom designed with all the attributes of the #80, and is for use in those instances where a solid structure is preferred.

The #90 Tower Pipe (#90) is a guyed tower with a 60" face. This tower is individually engineered for heavy duty applications such as large diameter microwave situations and severe environmental conditions. It's also ideal for collocation of multiple carriers.

The #90 Tower Solid (#90SR) is a solid member guyed tower with a 60" face. This tower offers another option in ROHN's line of heavy duty guyed towers where extreme loads and maximum heights are necessary.



### Additional 80/90 Series Features:

- Time tested design
- Steel pipe or solid steel leg design
- Tubular or angle steel cross bracing with bolted construction
- For applications to 1000 feet
- Custom designs, individually engineered
- All parts Hot Dip Galvanized after fabrication

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### 80 SERIES



Products for a Growing World of Technology

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Sheet D-2855 (Replaces D-2753)

#### 80/90 Series



#### **#80 TOWER**

20' standard	sections	20' X-braced	sections		Part No.	Descrip	tion	Wt.
Part Number 83P 83PH 84	Weight 430 520 565	Part Number 83PX 83PHX 84X	Weight 550 635 680	**	3/4X16BB 15/16X16PP DP80A DP85A	Concrete Pier pin ( Drainage Drainage	base bolt w/double nuts (12 required) for tapered bases - 1 required) e plates (set of 3) e plates (set of 3)	1-1/2 3 20 44
84H 85H2 85HH 83P11 83PH11	685 850 1115 540 630	84HX 85HX2 85HHX 83PX11 83PHX11	800 960 1230 755 840	% %	83ACL 84ACL 85ACL	Anti-clim Anti-clim Anti-clim	b panels (Dwg. C750291) b panels (Dwg. C750291) b panels (Dwg. C750291)	360 360 375
8411 84H11 85H113 85HH11	675 795 960 1230	84X11 84HX11 85HX112 85HHX11	890 1010 1170 1435	▼ ※ ▼ ※ ▼	80tb1 80tb3 80tbKD 80tbKDIA	5' tapere 5' tapere 5' tapere 5' tapere	d base (welded) d base (welded) w/ground lugs on 3 legs d base (knocked down) d base (knock down) drilled	360 380 470 520
20' sections w	/guy lug	20' X-braced	sections raue lug	* ▼	80TBIA	5' tapere	22 base insulator ad base (welded) drilled to fit or A4722 base insulator	430
Part Number 83PHGA2 84HGA 84HGA 85HGA2 85HHGA 83PH11GA 84H11GA	Weight 720 885 1030 1100 1300 830 1000 1140	Part Number 83PHXTA3 84HXTA4 85HXTA3 \$85HXTA4 85HHXTA 83PHX11TA3 84HX11TA4	Weight 755 945 1105 1160 1375 965 1155	▼ ※ ▼ ※ ▼	85TB1 85TB3 85TB1 85HTB 85HTB1 6A80	5' tapere 5' tapere 5' tapere base insu 5' tapere	ad base (welded) ad base (welded) w/ground lugs on 3 legs ad base (welded), drilled to fit ulator ad base (welded) ad base (welded) ad base (welded) w/ground lugs on 3 legs wath (bracket w/torrup bars)	420 440 450 520 540
#85H11GA2 85HH11GA	1200 1400	85HX11TA3 85HX11TA4 85HX11TA4 85HHX11TA	1315 1370 1580		GA80 GA85 GB85	Guy brad Guy brad Guy asse Guy brad	sket only mbly (bracket w/torque bars) sket only	95 140 114
Transition se	ections		1690				,	
Part Number 85H3 85HX3 85H114 85HX113 85HC3 85HXC3 85HXC3 85H11C3 85HX11C3	Weight 875 990 1200 690 775 780 935	84HXET23 85HXET23 85HXET173 85HXET173 85HXET174 85HHXET2 85HHXET17 20' angle X-brace	1790 1855 1855 1910 1910 2120 2120 2120	* <b>* * * * * * * * * *</b>	IA8383 TA8483 TA8583 TA83103 TA84103 TA85103 TA85103 TA84129 TA841210 TA85128	8" chanr 8" chanr 8" chanr 10" char 10" char 10" char 12" char 12" char 12" char	nel torque arm assembly (7-1/2') nel torque arm assembly (7-1/2') nel torque arm assembly (7-1/2') nnel torque arm assembly (7-1/2')	315 320 325 415 420 425 660 875 665
		Part Number	Weight	* *	TA85129	12" char	nnel torque arm assembly (7-1/2')	880
15' section Part Number 84HC 85HC2	<b>Weight</b> 540 660	84HXE 85HXE1 85HHXE	1580 1730 1995	* * * % *	TA84156 TA85156 TA8418433 TA8418583	15" char 15" char 18" char 18" char	nnel torque arm assembly (7-1/2') nnel torque arm assembly (7-1/2') nnel torque arm assembly (7-1/2') nnel torque arm assembly (7-1/2')	965 975 1490 1845
84H11C 85H11C2 885HHC 85HHC1 85HH11C1	625 750 890 860 955	20' X-braced w/guy la Part Number 83PHXGA2	sections ug Weight 830	* * *	TA8518433 TA8518583 TA80H TA80HSR	18" char 18" char Heavy di Extra hea	nnel torque arm assembly (/-//2') nnel torque arm assembly (7-1/2') uty torque arm (16″) avy duty torque arm (16″)	1500 1860 725 2500
85HH11C	980	84HXGA 85HXGA	1000 1160		APL6A	Beacon p and bolts	plate (leg mounted) and two cap plates w/nuts is (for sections 83P, 83PH, 84, 84H and 85H)	16
15' X-braced	sections	85HHXGA	1205		API 1258UM	Mid bea	con plate for inside or outside tower	30
84HXC 85HXC2 85HHXC 85HHXC1	620 745 950 975	83PHX11GA 84HX11GA 85HX11GA \$\$5HX11GA2 85HHX11GA	1045 1205 1350 1415 1600		CP6A	Cap plat 83P, 83P	es (set of 3 w/nuts and bolts) for sections H, 84, 84H, and 85H	15
84HX11C 85HX11C2 85HHX11C 85HHX11C1	785 905 1110 1135	20' X-braced se use w/TA80 Part Number	ections for OHSR Weight		580 KX552A PT1L KX550A	Step bolt Platform, Platform, Platform,	s, one leg outside rotatable (Dwg. D940532) panel step-off (Dwg. C730884) full (Dwg. D920702)	1/#. 1420 49 1110
20' X-braced	sections	84HXETA3	2050 2320	20′	X-braced sec	tions for		
Part Number \$84HXL2	Weight 1175	85HXETA4 884HXETAT3 85HXETAT3	2370 2150 2380	<b>Par</b> 84⊢	use with IA3 t Number IXTA5	Weight 1300		
(Note: 11 = 1-1/2" h tubular braces)	eavy wall	85HXETAT4 85HHXETA	2370 2515	84H 85H	IXETA IXTA6	1755 1440		

tubular braces)

If ANCO nuts are required, add "AN" suffix to the appropriate section part number. ▼ Towers mounted on this base must be guyed at all times. ◆ This item not to be used without proper design consideration. See Hardware and Accessories section of the ROHN catalog for additional accessories (such as dish mounts, ladders, etc.) for the #80 tower. F.O.B. Peoria, Illinois

Prices and Specifications subject to change without notice.







## 90 SERIES



Products for a Growing World of Technology



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Part No.         Wt.           + 920A         705           + 920B         815           + 920C         915           + 920D         1115           + 920E         1275           * 920E         1275           * 920E         1275           * 920E         1275           * 925A         810           * 925A         810           * 925A         840           * 925B         935           + 925B         935           * 925B         935           * 925B         935           * 925C         1035           * 925D         1235           * 925D         1235           * 925D         1235           * 925E         1395           * 925E         1395           * 925E         1395           * 930B         1140           * 930B         1140           * 930E         1600           * 935E         1285           * 935E         1285           * 930B         1440           * 930E         1600           * 935E         935EHHD **           * 935E				
+ 920A       705         + 920B       815         + 920C       915         + 920D       1115         + 920E       1275         **       940CB         *       920E         *       920E         *       920E         *       925A         *       925B         *       925B         *       925B         *       925C         *       925C         *       925C         *       925C         *       925D         *       925EB         *       925EB         *       930E			Part No.	Wt.
+ 920B       815         + 920C       915         + 920D       1115         + 920E       1275         **       940CB         *       920E         *       925AB         *       925BB         *       925BB         *       925C         *       925C         *       925D         *       925D         *       925D         *       925D         *       925D         *       925D         *       925EB         *       925EB         *       930E         *       935E	; .	+	920A	705
+ 920C       915         + 920D       1115         + 920E       1275	; .	ł	920B	815
+ 920D       1115         + 920E       1275         **       920E         + 925A       810         + 925AB       845         + 925AF       840         **       940EB         **       940EB         **       940EB         **       940EF         **       940F         **       925B         **       925C         1035       *         *       925D         **       925E         1395       *         *       925E         1395       *         *       925EB         1420       **         **       930E         **       930E         **       930E         **       930E	; .	ł	920C	915
+ 920E       1275         ★ 925A       810         + 925A       810         + 925AB       845         + 925AT       840         * 925B       935         + 925B       935         + 925B       935         + 925B       955         + 925B       955         + 925C       1035         + 925C       1035         + 925C1       1050         **       950F         **       950F         * 925D1       1235         * 925D1       1235         * 925E       1395         n 925EB       1420         **       930E         **       935EHHD         **	g .	+	920D	1115
* 925A       810         * 925A       810         * 925AB       845         * 925AT       840         * 925B       935         * 925BB       955         * 925C       1035         * 925C       1060         * 925C       1050         * 925C       1050         * 925D       1235         * 925D       1235         * 925D       1235         * 925E       1395         n 925EB       1420         * 930A       1035         * 930B       1140         * 930C       1240         * 930E       1600         * 935E       925EHD         * 930E       1600         * 935E       935EHD         * 935D       1580         * 935E       1745         * 935E       1960	<u>.</u>	+	920E	1275
+ 925A       810         + 925AB       845         + 925AI       840         * 925AI       840         * 925B       935         + 925B       935         + 925BB       955         + 925BI       950         * 925CI       1035         + 925CB       1060         + 925CB       1060         + 925CI       1035         * 925D       1235         + 925D       1235         + 925D       1235         + 925D       1265         + 925E       1395         n 925EB       1420         **       930E         ** 930B       1140         + 930C       1240         * 930E       1600         ** 930E       1600         ** 930E       1600         ** 930E       1600         ** 935B       1285         ** 935B       1285         ** 935D       1580         ** 935E       1745         ** 935F       1960				
+ 925AB       845         + 925AI       840         * 925B       935         + 925B       935         + 925B       955         + 925BI       950         * 925CI       1035         + 925CB       1060         + 925CI       1050         * 925CI       1050         * 925D       1235         + 925D       1235         + 925D       1235         + 925D       1250         **       955F         + 925E       1395         n 925EB       1420         **       930C         + 930E       1600         * 935E       1285         * 935E       1285         * 935E       1745         * 935E       1745         * 935F       1960         ** n       955FHHD **	g .	+	925A	810
+       925AT       840         +       925B       935         +       925BB       955         +       925BT       950         +       925C       1035         +       925CB       1060         +       925CB       1060         +       925CT       1050         *       +       925C         +       925CT       1050         *       +       925D         +       925D       1235         +       925DB       1265         +       925DT       1250         *       +       925EB       1395         n       925EB       1420         *       +       930A       1035         *       930A       1035         *       930B       1140         *       930E       1600         *       930E       1600         *       935E       1745         *       935E       1745         *       935E       1745         *       935E       1745	g .	+	925AB	845
* 925B       935         * 925BB       955         * 925BT       950         * 925C       1035         * 925C       1035         * 925CB       1060         * 925CT       1050         * 925D       1235         * 925E       1395         n 925EB       1420         * 930A       1035         * 930B       1140         * 930E       1600         * 930E       1600         * 930F       1815         * 935B       1285         * 935D       1580         * 935E       1745         * 935F       1960	g .	+	925AT	840
+ 925B       935         + 925BB       955         + 925BT       950         * 925BT       950         * 925C       1035         + 925C       1035         * 925CB       1060         * 925CT       1050         ** + 950E         * 925D       1235         * 925D       1250         **       925E         * 925E       1395         n 925EB       1420         **       930E         **       935E         **       935EHH				
+ 925BB       955         + 925BT       950         * 925BT       950         * 925C       1035         + 925CB       1060         + 925CT       1050         * 925DB       1235         + 925D       1235         + 925D       1235         * 925DB       1265         + 925DT       1250         **       925DT         * 925B       1420         **       930E         * 930B       1140         * 930E       1600         **       930F         **       930F         **       935E         **       935F         **       935F         **       935F	; .	+	925B	935
+ 925BT       950         + 925C       1035         + 925CB       1060         + 925CT       1050         * 925D       1235         + 925D       1235         + 925D       1235         * 925DB       1265         + 925E       1395         + 925E       1395         n 925EB       1420         **       930E         + 930C       1240         * 930E       1600         **       930F         1815       **         **       935E         **       935F         **       935F	; .	+	925BB	955
*       925C       1035         *       925CB       1060         *       925CT       1050         *       925CT       1050         *       925CT       1050         *       925CD       1235         *       925D       1235         *       925DB       1265         *       925DT       1250         **       925E       1395         *       925EB       1420         **       930B       1140         *       930E       1600         *       930E       1600         *       930F       1815         **       935E       1285         *       935C       1385         *       935E       1745         *       935E       1745	g .	+	925BT	950
+ 925C       1035         + 925CB       1060         + 925CT       1050         * 925CT       1050         * 925D       1235         + 925DB       1265         + 925DT       1250         **       925EB         1 925EB       1420         **       930E         + 930E       1600         ** 930E       1600         ** 935B       1285         * 935C       1385         * 935E       1745         ** 935F       1960				
+       925CB       1060         +       925CT       1050         *       +       925D         +       925D       1235         +       925DB       1265         +       925DT       1250         **       +       925E         +       925E       1395         n       925EB       1420         **       +       930E         +       930B       1140         +       930E       1600         *       930E       1600         **       935E       1285         *       935C       1385         *       935E       1745         **       935F       1960	3.	+	925C	1035
+       925CT       1050         *       925D       1235         *       925DB       1265         *       925DT       1250         *       925DT       1250         *       925EB       1395         n       925EB       1420         **       930A       1035         *       930B       1140         *       930C       1240         *       930E       1600         *       930F       1815         **       935C       1385         *       935C       1385         *       935E       1745         **       935F       1960	; .	+	925CB	1060
# 925D       1235         # 925DB       1265         # 925DT       1250         # 925E       1395         h 925EB       1420         # 930A       1035         # 930B       1140         # 930D       1440         # 930E       1600         # 935E       1285         # 935E       1285         # 935E       1285         # 935E       1745         # 935F       1960	; .	+	925CT	1050
+       925D       1235         +       925DB       1265         +       925DT       1250         **       925EB       1395         n       925EB       1420         **       930A       1035         +       930B       1140         +       930B       1140         +       930D       1440         +       930E       1600         **       930F       1815         **       935E       1285         +       935D       1580         *       935E       1745         *       935F       1960				
+       925DB       1265         +       925DT       1250         **       925E       1395         n       925EB       1420         **       930A       1035         *       930A       1035         *       930B       1140         *       930C       1240         *       930D       1440         *       930E       1600         *       930F       1815         **       935E       1285         *       935D       1580         *       935E       1745         *       935F       1960	; .	+	925D	1235
+       925DT       1250         **       925E       1395         n       925EB       1420         **       930E       1420         **       930A       1035         *       930B       1140         *       930C       1240         *       930D       1440         *       930E       1600         *       930F       1815         **       935E       1285         *       935D       1580         *       935E       1745         *       935F       1960	;.	+	925DB	1265
# 925E       1395         h 925EB       1420         **       930E         # 930A       1035         * 930B       1140         * 930C       1240         * 930E       1600         * 930F       1815         **       935EHHD **         ** 935B       1285         * 935C       1385         * 935D       1580         * 935F       1960	; .	+	925DT	1250
+       925E       1395         n       925EB       1420         **       930E       1035         *       930A       1035         *       930B       1140         *       930C       1240         *       930C       1240         *       930D       1440         *       930E       1600         *       930F       1815         **       935E       1285         *       935D       1580         *       935E       1745         *       935F       1960				
n       925EB       1420         #       930E       1035         #       930B       1140         #       930C       1240         #       930D       1440         #       930E       1600         #       930F       1815         #       935E       1285         #       935C       1385         #       935D       1580         #       935E       1745         #       935F       1960		+	925E	1395
# 930A       1035         # 930B       1140         # 930C       1240         # 930D       1440         # 930E       1600         # 930F       1815         # 935E       1285         # 935C       1385         # 935D       1580         # 935E       1745         # 935F       1960		n	925EB	1420
+ 930A       1035         + 930B       1140         + 930C       1240         + 930D       1440         + 930E       1600         + 930F       1815         **       **         * 935B       1285         + 935C       1385         * 935D       1580         * 935E       1745         * 935F       1960				
+ 930B       1140         + 930C       1240         + 930D       1440         + 930E       1600         * 930F       1815         **       930E         + 935B       1285         * 935C       1385         * 935D       1580         * 935E       1745         * 935F       1960	; .	+	930A	1035
+       930C       1240         +       930D       1440         +       930E       1600         +       930F       1815         *       930F       1815         *       930F       1815         *       935E       1285         +       935C       1385         *       935D       1580         *       935E       1745         *       935F       1960	; .	+	930B	1140
+       930D       1440         +       930E       1600         +       930F       1815         **       930F       1815         **       930F       1815         **       930F       1815         **       935E       1285         *       935C       1385         *       935D       1580         *       935E       1745         *       935F       1960	; .	+	930C	1240
+       930E       1600         +       930F       1815         **       930F       1815         **       930EHHD **         **       935B       1285         +       935C       1385         *       935D       1580         *       935E       1745         *       935F       1960	; .	ł	930D	1440
+ 930F       1815         **       930EHHD **         *       935EHHD **         * 935C       1385         * 935D       1580         * 935E       1745         * 935F       1960	; .	ł	930E	1600
# 935B       1285         + 935C       1385         + 935D       1580         + 935E       1745         # 935F       1960	; .	+	930F	1815
+       935B       1285         +       935C       1385         +       935D       1580         +       935E       1745         +       935F       1960				
+ 935C 1385 + 935D 1580 + 935E 1745 + 935F 1960 <sup>88</sup> 950EHHD ** <sup>88</sup> 955EHHD ** <sup>88</sup> 955FHHD **	-	ł	935B	1285
+ 935D 1580 + 935E 1745 + 935F 1960 % n 955FHHD **	; .	+	935C	1385
+ 935E 1745 + 935F 1960 % n 955FHHD **	; .	ł	935D	1580
+ 935F 1960 % n 955FHHD **	3.	+	935E	1745
	; .	+	935F	1960

Notes:  $D = 2'' \times 2'' \times 1/4''$  brace with 1-5/8" bolts  $E = 2'' \times 2'' \times 1/4''$  brace with 2-5/8" bolts  $F = 2 \cdot 1/2'' \times 2 \cdot 1/4''$  brace with 2-3/4" bolts

For step bolts on one leg, add "SB" suffix and	20	
Top section (if not a heavy duty torque arm section), add	35	
*Add "GAL3" suffix for section w/standard guy lugs and	110	
*Add "GAL3SB" suffix (same as above) w/step bolts one leg and	130	
*Add "GAL2" suffix for section w/heavy duty guy legs and	210	
*Add "GAL2SB" suffix (same as above) w/step bolts one leg and	230	
*Add "GAL4" suffix for sections w/extra heavy duty guy lugs &		
*Add "GAL4SB" suffix (same as above) w/step bolts one leg and		
Add "TL44" or TL164" suffix for section w/standard torque arm lugs and	10	
For anco nuts, add "AN" suffix and \$25 to the appropriate section dealer price. For 10', 12' of	and 15' sections	, use appropriate 20' section dealer price.

\*4 in part number designates 1-1/8" wire maximum, 3 designates 5/8" wire maximum and 2 designates 7/8" wire maximum.

\*\*Torque arm section only. Show torque arm as a separate item on parts lists. St Not a stock item. Allow sufficient time for fabricating.



#### <u>#90</u> TOWER

	F	Part No.		Wt.
	+	TB90	8' tapered base, 4" EH	1310
	np	TB901	8' tapered base, 4" EH, with ground lugs	1330
	np	TB90A1	10' tapered base extension, 4" EH, with ground lugs (Dwg. C730307)	1760
88		TB950 (*	* ) 8' tapered base, 5" EH	2005
88	+	TB950A	10' tapered base, 5" EH	2680
88	+	TB955	8' tapered base, 5-1/2" EH	2300
88		TB955A	10' tapered base, 5-1/2" EH	3025
	d	JB90TB	Jack pads for #90 tapered base	105
	+	APL6A	Beacon plate (leg mounted) and two cap plates w/nuts and bolts (for 920 and 925 series)	16
	+	APL7A	Beacon plate (leg mounted) and two cap plates w/nuts and bolts (for 930, 935 and 940 ser	ies) 17
88	+	APL95A	Beacon plate (leg mounted) and two cap plates w/nuts and bolts (for 950 series)	30
	+	APL1258UM	Mid beacon plate	30
		CP6A	Cap plates (set of 3 w/nuts and bolts)	15
		CP7A	Cap plates (set of 3 w/nuts and bolts)	15
8		CP95A	Cap plates (set of 3 w/nuts and bolts)	17
8	+	9T20* ( '	*) Channel torque arm - 12"	900
88	d	9T30* ( '	* ) Channel torque arm - 12″	1200
8	+	9T33* ( '	*) Channel torque arm - 15"	1350
88	+	9T43* ( '	*) Channel torque arm - 18″	1950
8	+	9T58* ( '	*) Channel torque arm - 18″	2500
	+	TA90H*	Heavy duty torque arm	1065
88	+	TA90HHD*	Extra heavy duty torque arm	2765
8	+	TA95H*	Heavy duty torque arm	1050
88	+	TA95HHD*	Extra heavy duty torque arm	2720
88	+	L90IS10 (	**) 10' inside corner mounted standard ladder (Dwg. C820184) 4/Ht.	
88	+	L90IS20 (	**) 20' inside corner mounted standard ladder (Dwg. C820184) 8/tt.	
88	+	L90IH10 (	**) 10' inside corner mounted heavy ladder 32.50/tt. 7/tt.	
88	+	L90IH20 (	**) 20' inside corner mounted heavy ladder 22.50/tt. 11/tt.	
		5/8STEP (S	S90) Step bolts, one leg (tower ht. $\times$ .8 = qty.) 5.00/tt. 1/tt.	
		151001		
*		LPL901 (*	*) Inside ladder platform	85
	np	TIL	Plattorm, panel step-ott (Dwg. C730884)	49
	np	NK1082A	Plattorm, tull assy. tor #90 (Dwg. D910472)	1050

 $\ensuremath{^*\text{Specify}}$  leg size and order hardware separately. Section must be marked with torque arm.

(\*) Part number is for sales pricing reference only. See appropriate engineering drawings to determine assembly number.

(\*\*) Order hardware separately.

Not a stock item. Allow sufficient time for fabricating.

See Hardware and Accessories Section of the Rohn Catalog for additional accessories (i.e. dish mounts, ladders, etc.) for the #80 tower.



















## 80/90 SERIES ACCESSORIES



Products for a Growing World of Technology



### WAVEGUIDE BRACE BRACKET ASSEMBLIES

Waveguide Brace Bracket Assemblies are similar to ROHN's Waveguide Ladder Assemblies, only these mount directly to the top horizontal and the diagonal brace of a ROHN #80 or #90 guyed tower by way of a special u-bolt assembly. The rungs for these brace brackets are also pre-punched with twelve 7/16" diameter holes to accommodate butterfly hangers and twelve 3/4" diameter holes to accept snap-in hangers. A #80 tower would require four diagonal brace brackets and one horizontal for each 20 ft. section. A #90 tower would require five diagonals and one horizontal for each 20ft. section. All items are hot dip galvanized.

Model 80 Tower connection

Part Number	Description
WAF801211	For 1-1/2" Dia. tube horizontals
WAF801212	For 1-1/2" Dia. tube diagonals
WAF801213	For angle horizontals
WAF801214	For 2 bolt 2" x 1/4" diagonals
WAF801215	For 1 bolt 1-3/4" x .19" diagonals
WAF901521	For #90 diagonal braces

Model 90 Tower connection

Model 80 Tower

Model 90 Tower











80/90 Series

Hardware 2736







Hardware 2736

80/90 Series

BILL OF MATERIAL	QUAN. * PART NO. DESCRUPTION DAG. NO.	20' SECTION ASS'Y. NO. HLZOFA	I HL 162.A LADDER SECTION SK 711239	2 KY 96 LADDER SPLICE PLATE SK 711239	8 SEE CHART LADDER CLIP SEE CHART	+ 200000 124112 0001 400 1. C/10404	8 SEE CHART J- BOLT ASS'Y, SEE CHART		10' SECTION ASS'Y. NO. HLIOFA	I HL I61A LADDER SECTION SK 711239	2 KY 96 LADDER SPLICE PLATE SK 711239 A SEE AUNDER SPLICE PLATE SEE CUNDER	4 2100/86A 1/2 ×11/2 80LT ASS'Y. CT70404	4 SEE CHART J-BOLT ASS'Y. SEE CHART		TAIL B. PROVIDED WITH ALL TOWERS 200' & OVER IS	LADDER TO BE FIELD CUT TO PROPER LEWGTH	AFTER MSTALLATION.	T LADDER CLIP	- LADDER		1,807 H08.					~	SECTION A-A	R3 ADD NOTE 7-1-75 2404	R. ADDED RUNG SPARING NOTE & REVISED SPUICE 6-23-357 OH R. REVISED & REDROWN	NO. DESCRIPTION I DATE BY		NITLE - NUMBER OF OFFICE	FACE MOUNTED HEAVY LADDER ASS'Y	TOX OUIEU IOUEAS THIS DRAWING IS THE REVERY OF RONAL TIS NOT DBE FILE NO. REPRODUCED, OR TRACED IN WHOLE OR IN FART		1, 13 03 1210 ам. и С. В. алг. 2-5-74 инцев отнениев агестиса. онисизона лек алем и 	-2778/10 - 20000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000	
Notes:	1. LADDER CAN BE MOUNTED INSIDE OR OUTSIDE OF TOWER	AS REQUIRED.	* 2. QUANTITIES LISTED ARE FOR ONE LADDER SECTION ONLY	3 SPACE CLAMPS # CLIPS AS SHOWN.	ANGILI AR RRAFING	MOUNTING HARDWARE CHART	CLIP ASCOMBRACE ( LADDER CLIP(Z REGZ) J-BOLT(Z REGZ)	PN** SIZE PT. NO DWG. NO. PT. NO. DWG. NO.	KY695 211/2 HIT3 B 820993 J51A B29 47	KYKOK / 134" [1172   227/992   1510 20 17	VERE 1 7 1172 1287 500 110 020 47	V 1033 2 2 11/1 2020713 USIN 223 4/	KY833 [ 3" H174 B820993 JIOTA B29 108	**4 REQUIRED FOR 20' SECTION:	E REQUIRED TO RECTOR					G	DETAIL B		2.25 WINCH - LADDER	DULE LIAMP							-12/A J-BOLT 455'	PROFILE VIEW	WHENDED A DOHNAL OF SAFETY DEVICE	NUTH LADDER INSTALLATIONS FOR	ANGULAR BRACING	R9 REMOVED FLAT WASHERS 2500114 FROM ASSY P/HS 5 D ANNEN LANDED & VID ASON D/W.	1-3086(1) K7 KEV/SEO BILL OF MATERIALS /	(1000000 CC-04 WW 20 XE1/2C X2 XAVE
BILL OF MATERIAL	IN.* PART NO. DESCRIPTION DWG. NO.	20'SECTION ASS'Y. NO. HLZOFT	I HL 162A LADDER SECTION SK711239	2 KY 96 LADDER SPLICE PLATES SK TII239	B KH 9/ NO. 25 WINCH SADDLE CLAMP B7702/4	+ 2/00/000 1/2×1/2 0001 400 1. C1/10+0+	2 1214 U-BOLT ASS'Y B29 47	10'SECTION ASS'Y. NO. HLIDET	I HL 161A LADDER SECTION SK 711239	2 KY 96 LADDER SPLICE PLATE SK TII239	1 KH 9/ NO 25 WINCH SADDLE CLAMP 87702/4	Proceedin / 2	3 USIA U-BOLT ASS'Y. B29 47		- ecc nertan R.				24,554 1708 2/1×2/	 		WNB NNB		300 300 300 300 300 300 300 300 300 300	A Was and a super										TUBULAR BRACING		RII ADDED ROHN-LOC NOTE	X10 NEW LAD. LAD. LAP. 41. 42. 40. 40. 40. 40. 40. 40. 40. 40. 40. 40



## SELF-SUPPORTING TOWERS



Products for A Growing World of Technology




## SELF-SUPPORTING TOWERS

#### TIME TESTED STRENGTH AND DESIGN

The ROHN SSV Series of Self-Supporting Towers provide an excellent strength to cost ratio proven by years of use. In production over 20 years, the SSV has evolved into a highly efficient and wide ranging system of custom towers produced from pre-engineered sections.

#### Worldwide Multiple Uses



SSV towers are in use Worldwide for two way communications, microwave, cellular, PCS, public safety, broadcast, STL, surveillance camera mounts, solar power stations, weather stations and even high level lighting of sports stadiums.





#### UNMATCHED ATTENTION TO DETAIL

Backed by one of the largest manufacturers of communications towers in the world, ROHN Self-Supporting Towers are produced with unmatched attention to detail. As with all ROHN products, SSV Towers are Hot Dip Galvanized after fabrication to assure years of corrosion free use. In this process each section of the tower is totally immersed in molten zinc, allowing every square inch of the tower, inside and out, to be completely covered. Hot Dip Galvanizing protects all points of welding and construction against rust and corrosion while providing an attractive finish.

SSV Structures are available with a wide variety of pre-designed accessories including platforms, antenna mounts, ladders, lighting accessories, mounts, ice shields and safety climbing devices. Most SSV sections use angle steel cross bracing, with lighter upper sections using a Zig-Zag (B) brace pattern. SSV sections can be combined with "K" braced SSMW tower sections for added height and strength when needed.





### SSV TOWER FEATURES:

- Time tested design
- Tubular or solid steel leg design
- For applications to 300 feet
- Custom designs from pre-engineered sections
- Available with a free 20 year warranty
- All parts Hot Dip Galvanized after fabrication

Standard SSV Towers are available for applications not requiring site specific engineering analysis. See inside section for details.





## SSV TOWER



Products for a Growing World of Technology

# Blank

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DATA	SIZE REG'D OR	BASE		582	583	SB4	585	5/8X42	5/8X42	5/8X42	5/8X42	3/4X4B	7/8X60	7/8X60	7/8X60	1×78	1 X 78	1×78	WER AXI. D CENTE PAD				N	ے و. <b>"</b>	4 .			Ì	EW
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LOW. A	DAD DAD DUNDS) F	<u>'</u>	4,530	1,200	9,600	8,000	6,000	3, 730	13, 730	2,530	3,600	3,600	14,930	13, 600	12,930	12, 930	29, 330	29, 330	ROUND OF	Ø	AN V			Æ			A (SOUAR		EP ANIT
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SSV-2

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1' 0 11/16 583 3 1/2
1. 3 584 4 1/4
2. 7 5/16 5/8X42 4 15/16 3 1/2
3+ 3 1/2 5/8X42 4 15/16 3 1/2
4. 11 5/16 5/8X42 4 15/16 3 1/
6' 1 3/16 5/8X42 4 15/16 3 1/
7' 3 5/16 3/4X4B 5 21/32 4
8' 5 9/16 7/8X60 7 1/16 5
9. 7 11/16 7/8X60 7 1/16 5
10' 9 9/16 7/8X60 7 1/16 5
12.0 1X78 91/2 51/2
13' 1 13/16 1X78 9 1/2 5 1/2
TOWER AXIS VERT. BARS AND CENTER FORE CHART OF PAD OLAN. JOINT
(SOUARE)
ATION VIEW
MAT

















SSV-7

156









	SNG	FAL OTM EAR (FOOT INDS) POLINDS)	70 22.000	70 29,700	10 42,100	30 50,000	520 66,500	530 74,200	350 97,900		152.600	510 204,100	540 215,300	230 286,400	280 301,000	550 395,700	580 407,700			
	BASE REACTIC	(POUNDS)	13.500 97	18,400 97	21,900 1,1	26,100 1,1	30,100 1,3	33,600 1,3	24,100 1,8	27 000 21 1 A	25.900 2.5	26,300 3,3	27,800 3,3	29,900 4,2	31,500 4,2	34,500 5,3	35,600 5,3			
NW 22 		(Sanuca) and (Pounds)	14,300	19,200	23,000	27,300	31,600	35,200	26,000	28,200	28.300	29,200	30,800	33,300	34,900	38,500	39,700			
20 	SQ. FT.)	BELOW TOP	12.0	11.0	11.0	10.0	10.0	9.0	0.0	ה ע מ	0.0	8.0	7.5	7.5	7.5	7.5	7.0			. SR
	ED AREA (	30 FEET B	20.0	18.3	18.3	16.7	16.7	12.0	0.0	14.0	13.3	13.3	12.5	12.5	12.5	12.5	11.7			GROUNDED INAL CODES 'ART NUMBEI
	E PROJECT	TOP R FLATS	10.0	9.0	0.0	0.0	8.0	7.0	0.7			5.5	5.0	5.0	4.5	4.5	4.0			a MUST BE AND NATIC AILS AND F
DI CHART F	ALLOWABLI	TOWER ROUNDS OF	16.7	15.0	15.0	13.3	13,3				0.2	9.2	8.3	8.3	7.5	7.5	6.7		ΓΕS	TALLATIONS ITH LOCAL EMBLY DET/ 0800.
		FACE	01.1	01.1	2	2.2	9 0 • V	0		* C -/ +	5 6 3/4	3.63/4	3° 6 3/4	0'6 3/4	0.63/4	2.7 1/4	2.7 1/4		L O N	TENNA INS ORDANCE W CTION ASSI AWING EG90
	E SECTION	A-BOLTS	SB3	SB3	SB4	SB4	SB5	CD2	AV12AB	RX42AB	8X42AB	3/8X42AB	5/8X42AB 8	5/8X42AB	5/8X42AB	5/4X4BAB	5/4X48AB   1			B. ALL AN IN ACC 9. FOR SE
	BAS	PART NO.	3WN	3WN	4N	4N	Z	Z				UN NB	N	N6	No	NOI	1 ON	ю.	RAL	PPROVED (NO ICE). ASED REAS
		SECTION	2W	1 WB	2W	BWI	MZ	EW I		MC MC	I WB	2W	I WB	2W	I WB	ZW	I WB	ASE PART N	Ш И Ш	ACE WITH A 22-E-1991 A AREAS, B SEED THE A
FT PER LE			40	20	60	70	B	<u></u>	00	021	130	140	150	160	170	180	190	OLTS OR B/	0	N ACCORDAN VSI/EIA-22 TE ANTENNA ST NOT EXC
	TOWER		SS040D70	SS050D70	SS060D70	55070D70	55080070	220300/0	0/00155	SS120070	SS130D70	SS140D70	SS150D70	SS160D70	SS170D70	SS180D70	SS190D70	* ANCHOR BC		ESIGNS ARE IN - STANDARD AN ENT FLAT-PLA RS-222-C, MUG RS-FLAT MEMBE
ELEVATION																				I. TOWER DE NATIONAL Z. EQUIVALE SHOWN FC

70 MPH WIND SPEEDS ANSI/EIA-222-E

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 Drownin
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RI REV. NOTE I WAS - EIA-222-D No.A Revision Description

FOR TAPERED TOP DETAILS SEE DRAWING SK670407.
 ALL TOWERS PROVIDED WITH (P/N ITT) TAPERED TOP.
 FOR STEP BOLT DETAILS SEE DRAWING B651264.
 FOR FOUNDATION DETAILS SEE DRAWING D870480.

DESIGNS ASSUME ONE 7/8 LINE TO TOP AND TWO 7/8 LINES TO 30 FEET BELOW TOP, ONE PER FACE. TOWER DESIGNS ASSUME ALLOWABLE PROJECTED AREAS ARE SYMMETRICALLY PLACED ON THE TOWER.

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DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES. TOWER ERECTION AND DISMANTLING MUST BE BY QUALIFIED AND EXPERIENCED PERSONNEL.

INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.

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10. FOR ADDITIONAL BRACING, GROUTING AND DRAINAGE DETAILS SEE DRAWING SK720305.

1-11-91 RKB KC By▲

DRAWING ND.: C870698 RI

Parts List P-486 (New Sheet)

	_								1	owe	r Heig	ght			-	-	
Item & Part Number	Wt.	40′	50′	60′	70′	80′	90′	100′	110′	120′	130′	140′	150′	160′	170′	180′	190′
Tapered Top 1TT	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10' Welded Straight Section 1WB	63		1		1		1		1		1		1		1		1
20' Welded Tapered Section 2W	153	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Welded Tapered Section 3WN	235	1*	1*	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 4N	470			1*	1*	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 5N	580					1*	1*	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 6N	515							1*	1*	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 7N	575									1*	1*	1	1	1	1	1	1
20' Knock Down Tapered Section 8N	720											1*	1*	1	1	1	1
20' Knock Down Tapered Section 9N	770													1*	1*	1	1
20' Knock Down Tapered Section 10N	870															1*	1*
Base Grounding Kit BGKE	10	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
SB3	58	1	1														
SB4	100			1	1												
SB5	115					1	1										
6NABD	50							1	1	1	1	1	1	1	1		
10NABD	80															1	1
Anti-Climb Warning Sign ACWS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tower Weight		486	549	998	1061	1593	1656	2053	2116	2628	2691	3348	3411	4118	4181	5018	5081

#### SELF-SUPPORTING TOWER 70 MPH Basic Wind Speed (No Ice)

\*Base section of the tower should be designated as such.

See applicable drawings for foundation and loading details.



	BASE REACTIONS	UPLIFT TOTAL OTM (POUNDS) SHEAR, FOOT			32,400 1,930 71,400	25,500 Z,760 103,100	29 100 2,820 119,300 29 100 3 RED 169 900	30,900 3,830 180,600	33,400 5,070 255,500	35,400 5,100 270,300 30 700 6 520 375 800	41,200 6,540 389,800	47,000 8,280 532,100	48,700 8,330 550,900	57,900 10,650 763,700	66,900 13,060 1,007,000						1 WAS ETA-222-D 11-11 AKB 47	Tour and the second sec	N 9/2/87 40' TO 190' MODEL SSV TOWERS	w 9/30/87 90 MPH WIND SPEED ANSI/EIA-ZZZ-E w 9/30/87 (NO ICE) ANSI/EIA-ZZZ-E	E Z-12-88 ENG. FILE:   DRAWING ND.: CH/UDYS H
		(POUNDS)		27,900	33, 700	2/,100	31,500	33, 100	36,000	38, 100 47 000	44.500	50,900	52,700	62,900	73,000						RI REV. NOTE	THIS DRAWING I TO BE REPRODUC IN PART WITHOU	Scale: NONE B Drawn: W	Chacked: Gr App. Eng.: Ru	App. Sales: A
	SQ. FT.)	BELOW TOP		12.0	اO. تا ا	л 0 0	ກ ແ ກັດ	0.0	в.0	0.7	6.0	6.0	0.0	0.0 10.0	4.5			CODES.	- NUMBERS		K670407.		1264.	-/0485.	-
	ED AREA (	30 FEET E		20.0	17.5	- 1.u	0 10 10 10	13.3	13.3	7.11	10.0	10.0	8.3	7.5	7.5		LICT RE GD	D NATIONAL	S AND PART	UTING AND G SK720305	DRAWING 5	CTION PROV	RAWING B65	DHAWING UG	
For Tower	LE PROJECT	R TOP		0.01	ம் ப	ם ח ז מ	с., <u>с</u>	6.0	6.0	0.0	0.4	4.0	5 1 1 1	с. 0.0	3.0		M STIONS W	H LOCAL AN	BLY DETAIL 01.	ACING, GRC SEE DRAWIN	ETAILS SEE	WNB TOP SE	ATEREU LUT AILS SEE D TATIO ATE	ALLU JEE	
EE CHART	ALLOWABI	TOWE		16.7	14.2	4 - -		10.0	10.0	В. 8 У К	6.7	6.7	00 C	0.0 0.0	5.0	н С	NNA TNETA	DANCE WITH	ION ASSEME	TIONAL BR	RED TOP DI	RS WITH 3	BOLT DET/		
	z	FACE	C .C	1 C	2,6	4 0 1/4	6' 6 3/4	6' 6 3/4	B' 6 3/4	H. 6 3/4	10'6 3/4	12.7 1/4	12.7 1/4	14 7 7/8	16° B 3/B	0 Z		IN ACCOR	FOR SECT SEE DRAW	FOR ADDI DRAINAGE	FOR TAPE	WITH (P)	FOR STEP		
	SE SECTIO	FA-BOLTS	SR4	SB5	SB5		5/BX42AB	5/BX42AB	5/8X42AB	5/BX42AB	5/8X42AB	3/4X4BAB	3/4X4BAB	7/BX60AB	7/BX60AB		DVFD R	ICE).	თ	0.					
		PART NO.	4N	ξŪ	ND (		NO Z	7N	Z	NB HNO	HNG	HNOI	HNOI		HNZI	L B C C C C C C C C C C C C C C C C C C	WITH APPR	ON) 1661-3	REAS, BASE THE AREA	ROJECTED		ERS WITHIN	AUST BE	IN A HIG	
	- E C L	SECTION	MMZ	3WNB	3WN		3WNB	3WN	3WNB	SWNB	3WN	3WNB	3WN	3WN	3WNB	DASE PAF	CCORDANCE	/EIA-222-E	ANTENNA AF NOT EXCEEL ANTENNAS	LLOWABLE F		ANTLE TOWE	MANTLING N	(P/N ACWS)	
I FT PER	TOWER	HEIGHT (FEET)	40	205	60		86	00	0	130	140	150	160	180	190	BOLTS OR	ARE IN A	DARD ANSI	AT-PLATE 2-C, MUST 3T MEMBER	ASSUME A	AE ONE ·7/8	NICE OF EL	N AND DIS AND FXPFR	ING PLATE	
	TOWER	ASSEMBLY	55040D90	SSOEODBO	55060D90		06006055	SS100090	SS110D90	SS   30090	SS140D90	SS   50D90	SS160D90	SS 180D90	SS 1 90D90	* ANCHOR E	VER DESIGNS	TIONAL STAP	UIVALENT FL EIA RS-222 DWN FOR FL⊿	VER DESIGNS	SIGNS ASSUM	NOT INSTAL	MER ERECTIC OUALIFIED	STALL WARN	
ELEVATION																	- T0	AN	ÖZÏ N	3. TOV	4. 0 0 0 0	n LAD LAD	6. TO BYO	7. IN	

Parts List P-487 (New Sheet)

#### SELF-SUPPORTING TOWER 90 MPH Basic Wind Speed (No Ice)

								То	wer	Heigh	nt						
Item & Part Number	Wt.	40′	50′	60′	70′	80′	90′	100′	110′	120′	130′	140′	150′	160′	170′	180′	190′
20' Welded Tapered Section																	
3WN w/3TT Tapered Top	255	1		1		1		1		1		1		1		1	
10' Welded Straight Section 3WNB w/4TTN Tapered Top	172		1		1		1		1		1		1		1		1
20' Knock Down Tapered Section 4N	470	1*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Knock Down Tapered Section 5N	580		1*	1*	1	1	1	1	1	1	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 6N	515				1*	1*	1	1	1	1	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 7N	575						1*	1*	1	1	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 8N	720								1*	1*	1	1	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 9NH	885										1*	1*	1	1	1	1	1
20' Heavy Duty Knock Down Tapered Section 10NH	995												1*	1*	1	1	1
20' Heavy Duty Knock Down Tapered Section 11N	1455														1*	]*	1
20' Heavy Duty Knock Down Tapered Section 12NH	1860																]*
Base Grounding Kit BGKE	10	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
SB4	100	1															
SB5	115		1	1													
6NABD	50				1	1	1	1	1	1	1	1					
10NABD	80												1	1			
11NABD	140														1	1	1
Anti-Climb Warning Sign ACWS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tower Weight		845	1357	1440	1817	1900	2392	2475	3112	3195	3997	4080	5022	5105	6537	6620	8397

\*Base section of the tower should be designated as such.

See applicable drawings for foundation and loading details.



Parts List P-557 (Replaces P-496)

#### <u>SELF-SUPPORTING</u> <u>TOWER</u> 70 MPH Basic Wind Speed (No Ice) (1W at Top – ANSI/EIA 222 E, Exposure C)

Item & Part Number	Wt.	40′	60′	80′	100′	120′	140′	160′	180′	
Тарегеd Тор 1П	20	1	1	1	1	1	1	1	1	
18' Welded Straight Section 1W	107	1	1	1	1	1	1	1	1	
20' Welded Tapered Section 2W	135	1	1	1	1	1	1	1	1	
20' Welded Tapered Section 3WN	235		1	1	1	1	1	1	1	
20' Knock Down Tapered Section 4N	470			1	1	1	1	1	1	
20' Knock Down Tapered Section 5N	580				1	1	1	1	1	
20' Knock Down Tapered Section 6N	515					1*	1	1	1	
20' Knock Down Tapered Section 7N	575						1*	1	1	
20' Knock Down Tapered Section 8N	720							1*	1	
20' Knock Down Tapered Section 9N	770								]*	
Base Grounding Kit BGKE	10	2	2	2	2	3	3	3	3	
Short Base Section SB2	45	1								
Short Base Section SB3	58		1							
Short Base Section SB4	100			1						
Short Base Section SB5	115				1					
Anchor Bolt Assembly 6NABD	50					1	1	1	1	
Anti-Climb Warning Sign ACWS		1	1	1	1	1	1	1	1	
Tower Weight		345	593	1105	1700	2150	2725	3445	4215	

\*Base section of the tower should be designated as such.

See applicable drawings for foundation and loading details.





Parts List P-572 (Replaces P-556)

SELF-SUPPORTING TOWER	
80 MPH Basic Wind Speed (No	ce)
(1W at Top – ANSI/EIA 222 E, Expa	sure C)

		Towe	er Height	
Item & Part Number	Wt.	40′	60′	80′
Tapered Top 1TT	20	1	1	1
18' Welded Straight Section 1W	107	1	1	1
20' Welded Tapered Section 2W	153	1	1	1
20' Welded Tapered Section 3WN	235		1	1
20' Knock Down Tapered Section 4N	470			1
Base Grounding Kit BGKE	10	2	2	2
Short Base Section SB2	45	1		
Short Base Section SB3	58		1	
Short Base Section SB4	100			1
Anti-Climb Warning Sign ACWS		1	1	1
Tower Weight		345	593	1105

See applicable drawings for foundation and loading details.

Installation information is also included with the tower material.















# SCL TOWER



Products for a Growing World of Technology

# Blank



## **ROHN SCL**

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SHEET 2

SCL ASSEMBLY DRAWING

SHEET 1

SHEET 2

SHEET 3

## SCL FOUNDATION DETAIL DRAWING

SHEET 1

SHEET 2







DESIGN GENERAL	NOTES	
1) TOWER DESIGNS CC THE BASIC WIND SF ANSI/TIA/EIA STANDA OF THE NO ICE DESI BE VERIFIED BY OTH	NFORM TO THE APPROVED NATIONAL STANDARD AN EEDS INDICATED WITHOUT ICE. TOWER DESIGNS RD FOR A ½ INCH RADIAL ICE LOAD OCCURRING SIN GN WIND PRESSURES. THE APPROPRIATE DESIGN C ERS PRIOR TO INSTALLATION.	NSI/TIA/EIA-222-F-1996 FOR ALSO CONFORM TO THE MULTANEOUSLY WITH 75% RITERIA FOR A SITE MUST
2) ANTENNAS AND MOL OF THE TOWER FO ASSUMES THE WEIG STRESSES DUE TO BEEN CONSIDERED /	NTS ARE ASSUMED TO BE SYMMETRICALLY MOUNTE IR DETERMINING OVERALL REACTIONS AND MEM GHT OF ANTENNAS AND MOUNTS DO NOT EXCEE MOUNTING ARRANGEMENTS FOR SITE-SPECIFIC / ND MUST BE INVESTIGATED BY OTHERS ON AN INDI	ED AT OR BELOW THE TOP MBER FORCES. DESIGN ED 300 POUNDS. LOCAL APPLICATIONS HAVE NOT VIDUAL SITE BASIS.
3) THE ALLOWABLE EF PROJECTED AREAS FACTORS. THE AL WITHOUT THE USE ( ALLOWABLE EFFECT CONSIDERED FOR AL ANTENNAS AND MOL	FECTIVE PROJECTED AREAS INDICATED INCLUDE OF ANTENNAS AND MOUNTS MUTLIPLIED BY TH LOWABLE EFFECTIVE PROJECTED AREAS ARE B OF ANTI-CLIMB PANELS. THE USE OF ANTI-CLIMB P IVE PROJECTED AREAS INDICATED. WHEN ½ INCH I APPLICATION, THE ADDITIONAL EFFECTIVE PROJEC NTS SHALL BE INCLUDED IN THE SUMMATION.	THE SUMMATION OF THE BEIR APPROPRIATE DRAG BASED ON APPLICATIONS PANELS WILL REDUCE THE H OF RADIAL ICE IS TO BE CTED AREA OF THE ICE ON
4) DESIGN ASSUMES PROJECTED AREA A MOUNTED BELOW TH	/AXIMUM TOP MAST LOAD IS LIMITED TO 5 SO ND 100 POUNDS VERTICAL LOAD. ALL OTHER LOA E TOP MAST.	QUARE FEET EFFECTIVE ADING IS ASSUMED TO BE
5) TOWER DESIGNS A EFFECTIVE PROJECT	SSUME A ½ INCH TRANSMISSION LINE FOR EAC ED AREA UP TO A MAXIMUM OF THREE LINES, ONE L	CH 10 SQUARE FEET OF INE PER TOWER FACE.
<ul> <li>6) TOWER DESIGNS DO AND CONDITIONS AI WILL ERECT (OR DISI</li> </ul>	NOT INCLUDE STRESSES DUE TO ERECTION SINC E UNKNOWN. DESIGN ASSUMES COMPETENT AN MANTLE) THE TOWER IN ACCORDANCE WITH THE AN	CE ERECTION EQUIPMENT D QUALIFIED PERSONNEL SI/TIA/EIA STANDARD.
7) THE MINIMUM YIELD WITH THE EXCEPTIO GRADE 5 WITH LOCK	STRENGTH OF STRUCTURAL STEEL MEMBERS SH VOF PLATES AND ANGLES, WHICH SHALL BE 36 KSI. WASHERS TO BE USED AS NUT LOCKING DEVICES.	IALL BE EQUAL TO 50 KSI ALL BOLTS SHALL BE SAE
8) ALL MEMBERS AND ANSI/TIA/EIA STANDA	HARDWARE SHALL BE HOT DIP GALVANIZED IN RD.	ACCORDANCE WITH THE
9) TOWER DESIGN AS PERFORMED BY OT ANS/TIA/EIA STANDA	SUMES THAT AS A MINIMUM, MAINTENANCE AN HERS OVER THE LIFE OF THE STRUCTURE IN RD.	ND INSPECTION WILL BE ACCORDANCE WITH THE
10) FOUNDATIONS SHA REACTIONS AND ST "NORMAL" SOIL, REFI	L BE DESIGNED FOR THE CONDITIONS EXISTINANDARD MAT FOUNDATIONS DESIGNED IN ACCOR R TO DRAWING AF020037.	NG AT THE SITE. FOR DANCE WITH ANSI/TIA/EIA
11) THE TOWER HEIGHT THE ELEVATION VIE HIGHER DUE TO THE	S LISTED IN THE DESIGN LOADING CHART AND THE V ARE NOMINAL DIMENSIONS. ACTUAL TOWER HE SHORT BASE, AND TOP PLATE ASSEMBLY.	FACE WIDTHS SHOWN ON EIGHTS WILL BE SLIGHTLY
	SCL DESIGN LOA	ADING <b>ROHN</b>
	DRAWING NUMBER REV.	SHEET DATE DRAWN RY
	AFUZUIZ8         U           THIS DRAWING IS THE PROPERTY OF         NOT TO BE COPIED, TRACED, OR REF	CHECKED BY         APPROVED
	ANY FORM WITHOUT OUR WRITTEN C	CONSENT. JWB 6/5 ///4 6/10



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	TOP PLATE ASSEMBLY	(1) TOP PLATE WELDMENT (1) MAST - 1-1/2" SCH4O PIPE (1.9" O.D.) (3) BRACES - 1" O.D., 18GA TUBING (4) BOLTS - 1/2" X 1-1/4" W/ SPLIT LOCK & (3) BOLTS - 5/16" X 1" W/ SPLIT LOCK & NU			
	RT01	(3) LEGS - 1/8" THICK, 60v CHANNEL (24) BRACES - 1" O.D., 18GA TUBING (24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK (24) NUT - 5/16" HEX		1)	GENERAL NOTES ASSEMBLY (OR DISMANTLING) SHALL BE BY COMPETENT AND QUALIFIED PERSONNEL IN ACCORDANCE WITH ANSI/TIA/EIA-222-F 1996 "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES "
	RT02	(3) LEGS - 1/8" THICK, 60v CHANNEL (24) BRACES - 1" O.D., 18GA TUBING (24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK (24) NUT - 5/16" HEX		2)	SECTIONS ARE AVAILABLE AS ASSEMBLED SECTIONS OR AS KNOCKDOWN COMPONENTS. (KNOCKDOWN SECTION KITS ARE IDENTIFIED WITH A "K" ADDED TO THE END OF THE SECTION PART NUMBER.)
		(3) LEGS - 1/8" THICK, 60⊻ CHANNEL (24) BRACES - 1" 0.D., 18GA TUBING		3)	TOWER LOADING SHALL NOT EXCEED THE LOADING INDICATED ON DRAWING AF020128.
	RTO	(24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK (24) NUT - 5/16" HEX	$\beta$	4)	TOWER SHALL NOT BE INSTALLED WITHIN FALLING DISTANCE OF ELECTRICAL OR TELEPHONE LINES.
		(3) LEGS - 1/8" THICK, 60v CHANNEL (21) BRACES - 1" O.D. 1864 TUBING		5)	PART NUMBERS ARE STAMPED ON ALL LEG AND BRACE MEMBERS. REFER TO SHEET 2 FOR SECTION ASSEMBLY DETAILS.
	RT04	(3) BRACES - 1-1/4" O.D., IGGA TUBING (24) BOLTS - 5/16" X 1" (24) WASHER - 5/16" SPLIT LOCK		6)	FIELD CONNECTIONS SHALL BE BOLTED WITH LOCK WASHERS, NO FIELD WELDING SHALL BE ALLOWED.
		(24) NUT - 5/16" HEX	-	7)	TOWER OBSTRUCTION MARKING, IF REQUIRED, SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
	RT05	(15) BRACES - 1-1/4" O.D., 16GA TUBING (15) BRACES - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX		8)	GROUNDING SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. NUMBER OF BGK3G GROUNDING KITS ARE BASED ON FACE WIDTH. SEE BILL OF MATERIAL ON SHEET 3 FOR QTY. SUPPLIED. REFER TO DRAWING AF020142 FOR INSTALLATION DETAILS.
	06	(3) LEGS - 3/16" THICK, 60v CHANNEL (12) BRACES - 1-1/4" O.D., 16GA TUBING (3) BRACES - 1-1/4" O.D., 14GA TUBING			ADDITIONAL GROUNDING MATERIAL MAY BE REQUIRED BASED ON SITE-SPECIFIC CONDITIONS AND REQUIREMENTS.
	RT	(15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX	$\mathbf{K}$	9)	WARNING PLATE (P/N ACWS) SHALL BE INSTALLED IN A HIGHLY VISIBLE LOCATION ON THE TOWER.
	T07	(3) LEGS - 3/16" THICK, 60v CHANNEL (15) BRACES - 1-1/4" O.D., 14GA TUBING (15) BOLTS - 3/8" X 1-1/4"		10)	STEP BOLTS WITH CLIMBER ANCHORAGES ARE AVAILABLE AS AN OPTION FOR CLIMBING THE ENTIRE HEIGHT OF THE TOWER. REFER TO DRAWING AF020095 FOR DETAILS.
	R	(15) WASHER - 3/8 SPLIT LUCK (15) NUT - 3/8" HEX		11)	A ROHN-LOC SAFETY DEVICE ASSEMBLY IS AVAILABLE AS AN OPTION FOR CLIMBING THE LEG OF THE TOWER. REFER TO DRAWING AF020141 FOR DETAILS.
	RT08	(3) LEGS - 3/10 THICK, GOV CHAINVEL (12) BRACES - 1-1/4" O.D., 14GA TUBING (3) BRACES - 1-1/2" O.D., 12GA TUBING (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX		12)	SEE DRAWING AF020037 FOR SHORT BASE DETAILS, REACTIONS AND STANDARD MAT FOUNDATION DESIGNS BASED ON ANSI/TIA/EIA "NORMAL" SOIL. PRIOR TO INSTALLING STANDARD FOUNDATIONS, IT SHALL BE VERIFIED THAT ACTUAL SITE SOIL PARAMETERS EQUAL OR
	RT09	(3) LEGS - 3/16" THICK, 60v CHANNEL (15) BRACES - 1-1/2" O.D., 12GA TUBING (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX			EXCEED "NORMAL" SOIL PARAMETERS.
	0	(3) LEGS - 3/16" THICK, 60v CHANNEL (12) BRACES - 1-1/2" O.D., 12GA TUBING	$\geq$		
	RT1	(12) BULLIS - 3/8 X 1-1/4" (12) WASHER - 3/8" SPLIT LOCK (12) NUT - 3/8" HEX	$\bowtie$		JUL AJJEINIDLY UKAWING
	SHORT BASE	(3) LEGS - 3/16" THICK, 60v CHANNEL (9) BRACES - 1-1/2" X 1-1/2" X 1/8" ANGLE (15) BOLTS - 3/8" X 1-1/4" (15) WASHER - 3/8" SPLIT LOCK (15) NUT - 3/8" HEX			DRAWING NUMBER     REV.     SHEET     Frankfort     Indiana       AF020140     0     1 OF 3     DATE     DRAWN BY       THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE COPIED, TRACED, OR REPRODUCED IN     CHECKED BY     APPROVED
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	TOWER HEIGH	RT SECTION OPTIONS	TOWER PART NUMBER	TOTAL WEIGH1 (LBS)		RT03 QTY	RT04 QTY	RT05 QTY	RT06 QTY	RT07 QTY	R108 Q1Y		אווטעוץ	TOP PLATE ASSEMBLY PART #	SHORT BASE PART #	RTJBKA QTY	RTJBKB QTY	BGK3G QTY	
	100	1 - 10	SCL100TSE	3 1921	1	1	1	1	1	1	1	1	1	RT01TPA	RT10SB	4	16	3	
	90'	2 - 10	SCL090BS	3 1848		1	1	1	1	1	1	1	1	RT02TPA	RT10SB	3	1 6	3	
	-	3 - 10	SCL0901SE	3 1651			1	1	1	1	 1	 	1	RT03TPA	RT109SB	4	$\frac{1}{1}$	3	
-	80'	1 - 8	SCL080TSE	3 1358	1		1	1	1	1	1	<u>'</u>		RT01TPA	RT08SB	4	1 4	3	_
	70'	4 - 10	SCL070BS	3 1720			1	1	1	1	1	1	1	RT04TPA	RT10SB	1	1 6	3	
	60'	1 - 7	SCL070TSE	3 1112	1		1	1	1	1			$\downarrow$	RT01TPA	RT07SB	4	$\frac{1}{1}$	3	
	50	1 - 5	SCL000TSE	690 <u>690</u>	1		1	1	-		+	_	+	RT01TPA	RT05SB	4	1 1	2	
	40'	1 - 4	SCL040TSE	3 514	1		1	·			+		┥	RT01TPA	RT04SB	4	1 0	2	
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									ANY	FORM	WITH	20, T )UT (	DUR	WRITTEN CONS	ENT. J	WB 6	5/5	A	5/10







#### STANDARD FOUNDATION NOTES:

- 1. FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F-1996, "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 LINEAL FOOT OF DEPTH TO A MAXIMUM OF 4000 PSF.
- 2. THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED E.I.A. "NORMAL" SOIL PARAMETERS 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 "NORMAL" SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
- 3. FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER'S 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 INSTALLATION.
- 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 REQUIREMENTS 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 3000 PSI IN 28 DAYS.
- 7. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 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 615 GRADE 60. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED.
- 9. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- 10. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
- 11. 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 UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT.
- 12. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- 13. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- 14. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIAL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 15. CONCRETE PLACEMENT SHALL BE CONTINUOUS. NO CONSTRUCTION JOINTS SHALL BE ALLOWED.
- 16. TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
- 17. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¾" X ¾" MINIMUM.

SCL MAT FO For EIA "No	RO	<b>ROHN</b> Products, Inc.			
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## SSV ACCESSORIES



Products for a Growing World of Technology

SPECIFICATIONS




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# WAVEGUIDE SUPPORT



### Waveguide Ladder Assembly

ROHN Waveguide Ladder assemblies come in 10 ft. or 20 ft. sections with pre-punched rungs in two variations, 8 or 15 holes, with both 7/16" diameter holes to accommodate butterfly hangers and 3/4" diameter holes to accept snap-in hangers. These ladders can be ordered with either 3 ft. or 4 ft. rung spacing. The 8 hole ladder is 19-1/6" wide and the 15 hole ladder is 34-13/16" wide. Mounting clamp assemblies must be ordered separately based upon brace size to which it is to be attached. All items are hot dip galvanized.

#### Special instructions on ordering Waveguide Ladders and Clamps

Waveguide ladder mounting clamp assemblies are included as part of the Waveguide Ladder but must be specified/ordered separately based upon brace size. See lower table on this page for part numbers and descriptions. Note there are tables for round and angle braces.

Part Number	Description
WL20F154KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 4 foot spacing
WL10F154KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 4 foot spacing
WL20F84KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 4 foot spacing
WL10F84KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 4 foot spacing
WL20F1 53KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 3 foot spacing
WL10F153KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 3 foot spacing
WL20F83KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 3 foot spacing
WL10F83KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 3 foot spacing

#### Waveguide ladder mounting clamp assemblies for SSMW Towers

Assembly	For brace size		Assembl	y includes	
	(OD of round braces)	Clamp	Qty	J bolt	Qty
WY3080A	1-1/2 to 2-3/8 inch	WY23	2	J44AA	4
WY3081A	2-7/8 to 3-1/2 inch	WY23	2	J51A	4
WY3082A	4 to 4-1/2 inch	WY24	2	J51A	4
WY3083A	5-9/16 inch	WY25	2	J51A	4
WY4559A	6-5/8 inch	WY4558	2	J51A	4

#### Waveguide ladder mounting clamp assemblies for SSV Towers

Assembly	For brace size		Assemb	y includes	
	(Angle braces)	Clamp	Qty	J bolt	Qty
KY693	1-1/2 inch	H173	2	J44AA	2
KY695	1-3/4 to 2-1/2 inch	H173	2	J51A	2
KY697	3 inch	H174	2	J51A	2
KY1287A	3-1/2 to 4 inch	H174	2	J170A	2



Detail



Detail

















MLZUF IZ4KUIJ	DMC NO.	C840372	C991005	8820868	C770404	C770404	SEE CHART	(ML.10F124KD1)	DWG NO.	C840372	C391005	B820868	C770404	C770404	SEE CHART	LD CUTTING TO LLY FOR PROPER NUTLLY FOR PROPER VOTING OF DE OR OUTSIDE OF	A H O A NAPES BY APPES BY	FACE WTD FOR HOLE 4 · KD - Δ 7/16" DIA. 
ITAN DICT AL WHICHING	DESCRIPTION	W/G LADDER RAIL	DDER RUNG (IZ HOLE)	LICE PLATE	9" WASHER	Bx1-1/4 BOLT ASSEMBLY	UNTING CLAMP ASSY	TION BILL OF MATERIAL	DESCRIPTION	W/G LADDER RAIL	ODER RUNG (12 HOLE)	LICE PLATE	8" WASHER	BXI-1/4 BOLT ASSEMBLY	UNTING CLAMP ASSY	BENERAL NOTES BENERAL AND AS SHOWN. TO BE LEADER LAND REDUTE FIL LADER LEADER LAND RATE ASSAM SHE PROVIDED FOR ALL RAS REQUIRED. WANTED INS. R AS REQUIRED.	Try of Rown, IT is Not RTY of Rown, IT is Not Radio Consent in Whole GR	LADDER ASSY W/1 SSMW TOWERS 12 2.50" 0.C. 3/4 ENG. FILE: DNG
SU WO LAUGH SEL	ITEM OTY PART NO.	1 2 WY3425 20	2 5 WYB571 LA	3 2 WY3498 SPI	4 4 2500086 3/1	5 14 210005GA 3/1	6 REF SEE CHART MO	10' W/G LADDER SEC	ITEM OTY PART NO.	1 2 WY3426 10	2 3 WY8571 LA	3 Z WY3498 SP	4 4 2500086 3/	5 10 210056A 3/	6 REF SEE CHART MO	C - 3/2" DIA. HOLES - 3/2" DIA. HOLES - 3/2" PLA. HOLES - 1/2 PEN RIMB) - 7 7/6" PIA. HOLES - 7 7/6" PLA. HOL	RI REVISED PART NUMBER No.A Revision Description THIS DRAWING IS THE PROPER THIS DRAWING IS THE PROPER TO BART WITHOUT OUR WAITED	Secie: MONE         By         Date           Dream:         SRH         05/11/30           Drecked:         JDM         5-12-90           App.         Eng.:         TS         6-15-95           Parent File:          Farent File:         Farent File:
N/0 LAULEN MUNITING LANE ASSEMBLIES	AMP TOWER LADGER CLAMP J-BOLT	VN SIZE (0.D.) P/N DWG. NO. OLAN P/N DWG. ND. OLAN	080A 1-1/2"-2-34" WY23 5K7303528 2 J44AA B2942A 4	0814 2-7/8-5-1/2" WY23 SK7303528 2 J51A B2947 4	0624 4"-4-1/2" W24 SK7303528 2 J51A B2947 4	0834 5-9/16" WZE SK7303568 2 J51A 82947 4	0553A 6-5/8" WY4558 883/316 2 JSIA 82947 4	DAVE SUCCESSING A CONSISTENCE		HORIZONTAL BRACE THAT THE W/G LADGER CROSSES.					TON	SCBLI-LI/A BQLT ASSY 3.08/1/-I/A BQLT ASSY 1.0005F FARTER 3.08/1/-I/A BQLT ASSY 1.0005F FARTER 3.08/1/-I/A BQLT ASSY 1.0005F FARTER 1.0005F FARTER 1.0	e: if circlear w/g is used; thataded adapters, provided by diaders, way be required to perfectly align w/g's	
				TOWER LEG		TOWER BRACE					(N.T.S.)				CSMN TOWER SECT		100+	57

SSV Accessories



















	1	BILL OF MATERIAL ASS'Y NO. N	ILZOFT	Mates.			BILL OF MATERIAL ASS'Y NO ML	20FA
QUMN.#	PART NO.	DESCRIPTION	DHG. NO.	1. LADDER CAN BE MOUNTED INSIDE OR OUTSIDE O	Y TOWER QUIN.	. PART NO.	DESCREPTION	DMG. NO.
		20'SECTION		AS REQUIRED.			20' SECTION	
-	NL 20	LADDER SECTION	SK-680905	* 2. QUANTITLES LISTED ARE FOR ONE LADDER SECTION	UNT X	NL 20	LADDER SECTION	<i>SY-6</i> 809 <i>05</i>
	10/1/	NO 25 WINCH SADDLE FLAVES	5/-680905	3. SPACE CLAMPS & CLIPS AS SHUWN.	~	XV 95	LADDER SPLICE PLATE	<u>5%-680905</u>
•	2100/864	1/2×1/2 BOLT ASS'Y.	C770404	ONLIND RODINIC	4	2/00/86A	1/2X11/2" BOLT ASS'Y.	SEE CHART
1	00	1 001 + 10014		MOUNTING HARDWARF CHART				
ę		V-0VL1 AUS 1.	823-42H	CLIP ASSO' ANDRE CLIP(2 REGD) J-BOLT (2 REG	7(D)	SEE CHART	V-BOLT ASS'Y.	SEE CHRRT
		10' SECTION ASS'Y NO. NLA	OFT	PINAN SIZE PT.NO. DHG.NO PT.NO DWG.NO.				T
`	N1 10	LADDER SECTION	SK-680905	KY693 / 1 1/5" H173 R820993 14411 R29 42			10' SECTION ASSY NO NL	IOFA
2	KY 95	LADDER SPLICE PLATE	SK-680905		-  -	N1 10	LADDER SECTION	<i>SK-680905</i>
4	KH91	NO 25 WINCH SADDLE CLAMP	8770214	174 679 HHAP CLEOYOS CILL #/ 17 COUV	~	KY 95	LADDER SPLICE PLATE	SK-680905
+	NODIONIZ	12X112 0041 ADD F.	6/10404	KK695 2 2" HI73 B820993 J511 829 47	REF	SEE CHART	LADDER CLIP	SEE CHART
¢	144.80	V-8017 452'V	A20-02A	- KY695 2.2% H173 B820993 J 519 B29 47	*	2100186A	1/2×1/2 BOLT ASS'Y	C170404
,	1		242 141	KY697 / 3" H174 R82009 2 1 510 820 47	RFF	SEF CHART	V-ROLT 4.5.5 V	CEF CUADT
					Щ Т			
		-	E C	XY1861 L3/2 H174 B820393 J107A B29108		() ()	TF: DV PODITONEL D FEFT DE LED	0.00
		arr arres	)	KIICOM 24 HILL BEEDBER 110/14 829108		, <del>0</del>	PROVIDED WITH ALL TOWERS 200 4	OVER.
			*	** 4-REQUIRED FOR 20'SECTIONS;	``	CAD	DER TO BE FIELD CUT TO PROPER	
	- -			AND FOR ALL 10' SECTIONS.	₽[ -+	LEN	IGTH AFTER ASS'X	
							T LADDER CLIP	
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		-				THIS DRAW	ING IL THE PROPERTY OF ROHM. IT IS NOT TO BE FILE NO ED. COPIED. OR TRACED IN WHOLE OR IN PART	
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GAF M	0-240 2-72 44184				DD // 4	YE Low	LVIN-	TED IN U.S.A.





ASSEMBLY BOLT INSTALLATION:

ALL TOWER ASSEMBLY BOLTS ARE TO BE INSERTED OUT AND/OR UP (I.E. WITH NUTS AND PAL NUTS ON OUTSIDE OF TOWER FACE AND/OR ON TOP OF FLANGE PLATES) UNLESS PROHIBITED BY LACK OF CLEARANCE

ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED IN ACCORDANCE WITH ANSI/EIA-222-E SECTION 1.1.3.2 - (WHERE HIGH-STRENGTH BOLTS ARE USED FOR BEARING-TYPE CONNECTIONS, AS A MINIMUM, THE BOLTS SHALL BE TIGHTENED TO A " SNUG TIGHT" CONDITION AS DEFINED IN THE NOVEMBER 13,1985, AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".)

FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES. CAUTION: DO NOT OVER-TORQUE! GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS MAY ACT AS A LUBRICANT, THUS OVER-TIGHTENING MAY OCCUR

PAL NUT I PAL NUTS INSTALLE ARE TIGH EDGE LIP PICTURE) NOT REQU SELF-LOC ARE PRO

AND MAY CAUSE BOLTS TO CRACK AND SN INSTALLATION ARE TO BE ID AFTER NUTS IT AND WITH OUT. (SEE PAL NUTS UIRED WHEN KING NUTS VIDED.	AP OFF.	•	
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RI UPGRADE FOR EIA REV.	D	12-29-87	FHT/JHD/
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	Unarco-Rohn		
	Division of Unarco Industries, Inc.		U
Title BOLT ASSE Scale NONE Drawn by Date Drawn by Date	Emilia Content       Emilia Content         Unless otherwise specified, dimensi         Tolerances         Decimals       Fractions $\pm$ $\pm$ Material       Finish         This drawing is the property of Unarce in who	ons are given i Ang ± Weig co-Rohn. It is n ole or in part wi	on inches. les the thout to be thout our
Approved by Production Date	written consent. File Number		
Approved by Sales Date PHH 7-10-79	Drawing Number A 79	013.	5 <sub>Rz</sub>







POLES



Products for a Growing World of Technology





# POLES Conserve Valuable Land Space

ROHN offers a variety of pole types to meet your specific communication requirements. Our tapered steel, flanged steel, fiberglass and concrete poles all feature designs that blend well into the environment and require minimum space for installation. Specifically designed to your requirements, ROHN poles meet the stringent demands of today's communications environment.

# ROHN POLES

## MONOPOLES

Conserving valuable land space is paramount. ROHN offers a variety of monopole types 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. ROHN monopoles meet the stringent demands of today's communication environment.

## TAPERED STEEL POLES

ROHN Tapered Steel Poles are designed with base diameters from 2' to 6'. These minimal site requirements lower lease rates or acquisition costs. And these poles are designed for rapid installation, making them ready for service quickly while meeting the demands of today's PCS, cellular, and other communication environments.

Backed by one of the largest manufacturers of communication structures, with unmatched attention to detail and design, ROHN Tapered Steel Poles offer extremely efficient strength to cost ratio.

All ROHN Tapered Steel Poles are Hot Dip Galvanized for long lasting corrosion protection and full scale testing of the poles has been performed for research and safety purposes. ROHN provides structure and foundation

### Additional Features of ROHN Tapered Steel Poles

• Fast easy installation

Since:

- Rotatable mounting frames, platforms, sidearms
- Heights in excess of 200'
- Microwave capable
- Standard or custom designs
- Minimal space requirements
- Optional factory paint
- Internal routing of transmission lines
- Removable climbing steps
- Full line of accessories including: obstruction lighting, safety climbing systems, grounding and special antenna mounts

design services with approved engineering documents, in any state, by a registered professional engineer.

## SECURE SOLUTIONS

Camera surveillance equipment must be mounted on secure unaccessible structures. Particularly in remote and rural areas where tall buildings and typical mounting methods are not practical or are non-existent. Equally challenging, are sites that are heavily congested or in rough terrain. ROHN monopoles are the right fit for any site.

## SPORTS LIGHTING

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

## FLANGED STEEL POLES

ROHN Flanged Steel Poles are easy to handle and install. Precision fitted connections allow quick assembly of the modular sections and the top platform, sidearms or mounting frame. And ROHN Steel Poles are Hot Dip Galvanized for long lasting corrosion protection.



























DWG. NO.	C941000	B770160	B651078	C770404							SKH TE MOUL TE	FOR 540997 RZ
BILL OF MATERIAL BILL OF MATERIAL (3-PIPES) (2-PIPES) (1-PIPES) PART NO. DESCRIPTION	1 6 4 2 VYSOSS POLE DISH WORMT CLANP W/ STUB	3 3 3 2 1 RH279 MUNTING PIFF (4570 X 5' L6.)	5 12 8 4 JABEAN U-BOLT ASSY	6 12 12 12 2100516A 3/4" X 3" BOLT ASSY.	A A ASSY P/N: VY5056A	ASSY P/N: VY5056A2P	ASSY P/N: VY5056A3P	NOTE: WASHEHS ARE PROVIDED FOR ALL SLOTTED HOLES.	(F)		RP         DELETED 5/0572P         3/0572P         1/02020         1/02020         1/02020           RI         JADEE         VFG0056A30         1/02020         1/02020         0/04           RI         JADEE         AFF60056A30         AFF60056A30         AFF60056A30         AFF6005         AFF60056A30         AFF6005         AFF60056A30         AFF60056A400         AFF60056A40	TO BE REPRODUCED ON WILLIAN CONCENTIN WILLE OF THE CONCENTING AND
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Products for A Growing World of Technology

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Products for A Growing World of Technology



# Leg Dish Mounts

Part Number	Description
S24HUM	Straight leg Dish Mount, 2.375 inch - 4.5 inch OD legs
S24HUMTB	Straight leg Dish Mount, 2.375 - 4.5 OD legs, with Tie Back Clips
S56HUM	Straight leg Dish Mount, 5.5 inch - 6.625 inch OD legs
S56HUMTB	Sraight leg Dish Mount, 5.5 inch - 6.625 inch OD legs, with Tie Back Clips
T24HUM	Tapered Leg Dish Mount, 2.375 inch - 4.5 inch OD legs
T24HUMTB	Tapered leg Dish Mount, 2.375 inch - 4.5 inch OD legs, with Tie Back Clips
T56HUM	Tapered Leg Dish Mount, 5.5 inch - 6.625 inch OD legs
T56HUMTB	Tapered Leg Dish Mount, 5.5 inch - 6.625 inch OD legs, with Tie Back Clips

Standard Leg Dish Mounts will fit on your designation of straight or tapered round member tower legs with diameters of 2.375" O.D. thround 6.625" O.D. Larger sizes are avilable upon request. All items are not dip galvanized. Includes mount and all hardware needed to attach mount to tower. Tie back clips and hardware are included where shown in description.

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		GENERAL NOIES	I. MOUNTING BRACKETS MUST BE	MOUNTED AS CLOSE TO A BRACE	CLIP AS HUSSIBLE.	C. FUR MUCHVING BRACKEI	BB00005 AND BB0012	3. FOR U-BOLT FABRICATION, SEE DRAWING NUMBER B65/028.	4. FOR MOUNTING PIPE FABRICATION, SFF DRAWING NUMBER B77060.	5. FOR TIE-BACK OLIP ANGLE	FABRICATION, SEE DRAWING NUMBER B800104.														12.5.81 4.16	A049 A97		L LEG DISH MOUNTS & TIE-	FOR TAPERED TOWER SECTIONS	9) Dave Recentes Fractions Angles Dave Material Finan Wegni	2-14-81 The carbona a the property of Unico Rom II is not to be the reproduced connect intered in white or in part without our carbon connect File Number	2010 Desering Number CROOLDA D.
	LEG U-BOLT ASS'Y WITH WASHERS (8-REQUIRED)	JRB3AW	JR84AW	JRBBAW	JR89AW	JRBSAW	JRBGAW	UKG/AM			LEG U-BOLT ASS'Y WITH WASHERS	(8-REQUIRED)	JR84AW	JR88AW	JR89AW	JR85AW	JR87AW		1.00	MASHERS (TYP)					R2 REDRAMN	No A Revision Description		<b>""</b> UNIVERSA	BACK CLIPS	Dram by AJG 12.5.		Approved by Sales
JACK OLES	CONNECTION BOLT ASSEMBLY /2 × 1/2 (4- REQUIRED)	21001864	210018GA	210018GA	210018GA	210018GA	210018GA	2100100A		RACK OLIPS	CONNECTION BOLT ASSEMBLY 1/2 × 1/2	(4 - REQUIRED)	21001854	21001864	ZIOOIBGA	210018GA	2100186A 2100186A			ASSEMBLY WITH		UPPER MOUNTING	BRACKET	-MOUNTING PIPE			-V2 X 1/2 BOLT	REQUIRED) TYP		OMER MOUNTING	BRACKE T FIA/	
0 LG & 11E-1	MIG PIPE U-BOLT ASS'Y w/WASHERS (4-REOUIRED)	JR85AW	JRB5AW	JRB5AW	JR85AW	JRB5AW	JRBSAW	WHOODA		8 LG & TIE-E	MTG PIPE U-BOLT ASSY WIWASHERS	(4 - REQUIRED)	JRB5AW	JR85AW	JPBSAW	JR85AW	JRBSAW				ľ	2	(TYPE)					12		7	EI FUATIONI MIE	
4 0/0 X 0-	те-виск але Рт. NO (2- Леа́У)	VY1653	VY1653	VY1653	VY1653	VY1653	VY1654	V1/654		4" STD X 6-	TIE-BACK CLIP	(2-KEU U)	VY1653	VY/653	VYI653	VY1653	VT1654 VY1654						G U-BOLT		TOWER		TIE-BACK CLIP	/	,	BRACE (REF.)	$\backslash$	•
שבוב אי	MOUNTING PIPE PT.NO (1-REQ'D)	KH279	КН279	KH279	KH279	KH279	KH279	RIZHA		NG PIPE	NUTVING	(1-KEUU)	KH285	KH285	KH285	KH285	KH285 KH285	HOLES.					ASSE		7	Ħ		3		TOWER		
	BRACKET (I-REQ'D EACH)	VY1627	VY1627	VY1627	VY1627	VY <b>I627</b>	VY1628	11000		MOUNTI	RACKET	ACH)	V/1027	VY1627	VY1627	VY1627	VY1628	L SLOTTED				:	Ĺ					]	2			
	UPPER L	VY1627	VY1627	VY1627	VY1627	VY1627	VYI627	171021		WITH	PT NO	4 40	VY1627	VY1627	VYI627	VY1627	VY1627	ED FOR AL		DIA. HOLE	DIA. HOLE	DIA. HOLE		-	A. 4		_	INTING				
	RACKET I-REQ'D EACH)	VY1651	VY1651	VY1651	VY/65/	VYI651	VYI652	VIBOX		OUNTS	RACKET	CACH)	129/17	VY1651	WI651	W1651	VY1652	RE PROVID			3/6	"/16" L		/				A MOL BRAC		M		
IN LOID	PT NO.	VYIGSI	VYI651	VYI651	VY1651	VY1651	VYI651	ICOLIA		NISH M	PT NO 6	A to	VY/65/	VYIGSI	VY1651	VY/65/	129171	MSHERS A		Ĺ		•	·]/	/		$\leq$		\		AN VIE		
	TOWER LEG PIPE SIZE	2*	2 1/2*	З,	3 1/2"	4°	5"	9		7	TOWER LEG PIPE SIZE		2 1/2"	3*	3/2	4	6,0	<u>NOTE</u> : FLAT N				C		[_				A CONTRACTOR		<u>1</u>		
	PT: NO	BZOUM	325UM	330UM	335UM	40UM	SOUM	POOM	Π		SEMBLY 77 NO.	1000	25HUM	30HUM	35HUM	40HUM	WCHOS						WER AXI									







		Central Marrie	DENERAL MOICS	A. MOUNTING BRACKETS MUST BE MOUNTED AS CLOSE IN APACE CLIP AS ANSCIALE	2. FOR MOUNTING BRACKET FABRICATION	3 FOR U-BOLT FABRICATION SEE DWG. NO. BESIDER ROOM	4 FOR MOUNTING PIPE FABRICATION SEE DWG. NO. B770160R2	S. FOR TIE-BRCK CUP ANGLE FABRICATION SEE DWG. NO. BBOOLO4.RI.								در ۱۲۷۹)					R. ADDED HOKES IN TIE-BACK CUP 9.780 KT.		UNIVERSAL LEG DISH MOUNTSETTE BACK	LLIPS FOR SI KHIGHI TOWER SELTIONS NONE 2.19.40	75 3-12-80 401 100 100 100 100 100 100 100 100 10	Automatic Production Date Personal
JCKCLIPS	CONNECTONBOLT PSSY // × / //2 (6 RED'D)	210018GA	2100186A	21001864	21001864	2/00/86A										- MTG. PIPE U-BC ASSY MWASHER		MOUNTING BRACKET		DOUNTING PIPE		VIZ XI VIZ BOLT ASSIV	C-KEOD.) IVP.		OUNTING BRACKET	
-0. 70 m 1/E-BH	ПТБ. РІРЕ U-ВОLT Р 554 7 WASHERS (6-REO'D.)	URBSAW	URBSAW	URBSHW	URBSAW	UR 85AW UR 85AW		10-0.76	ПТ6. Р/РЕ U- ВОЦТ Р 55 Y ЭМАЗНЕРЗ (6-RED'D)	URBSAW	VR85BW	URBSAW	URBSAW						(in							LLEVATION
5 PIPE 4 "STD x 10	LEG U-BOLT ASSYMMSHERS (10-REQ'D)	VRB3AW	UR8FAW	UKBOHW	URBSAW	URBGAW URB7AW		6 PIPE 4 510.	LEG U-BOLT ASSY MWASHERS (6-REOD)	JRB3AW	URBBAW	VR89AW	VR86AW		'n	1			SU-BOLT		TOWER LEG (REF.)	- Tie-BACK CLIP	- LEGU-BOLT ASSY	RACE (REF.)	, ,	'
TOUNTING	PIPE PIN (1-REO'D.)	KH291	KH291	KH291	KH291	KH291 -		MOUNTIN	PIPE PIN PIPE PIN (1-REO'D)	KH291 KH291	KH291	KH271	KH291 KH291	TTED HOLE					A 5:		٣	· <del>f</del>	_	FOWER B.		
SH MOUNTS 71	TIE-8ACK CLIP	VY/653	VY1653	VY1653	VY1653	VY1654 VY1654		SH MOUNTS -	CONNECTION BOLTA55'Y ''exile (6-REO'D)	2/00/86A	21001868	2100/864	2100186A	ED FOR ALL SLON			וסרב וסרב	HOLE	<u>,</u>			 :	WTING CKET	1		
10	<i>МО</i> ИЙТИЙ ВРКТ. P/N (6-REQ'D.) EXCEPTAS NOTED.)	VY1627	VY1627.	VY1627	11627	3-411627 3-411628		10	MOUNTING BRKT PIN, (6-REO'D.) (EXCEPT ASNOTED)	14/1627	VV1627	· - 11627	3-141627 3-141628	ASHERS PROVIO			7 44 019. H	L 7 "Ile" DIR	/	/	<b>R</b>		L mou	NB	1	
	TOWER LEG	25700r 2x-57R	2 1257 Dade 1.518	3% STD or 3% K - 578	4 5700+ X - 578	6570.00 X 57R	-		PUPE SIZE	2570.012X-57A	3570 a 3 1-578	3 the STD or 3 the Y - 5 Th	5570.051.57R	NOTE: FLAT W	1				\$ \$	/		`		° ₽	Į	
	ASSY PIN	57820LUM	57825LUM	ST835LUM	\$1840LUM	57860LUM			ASSY PIN	520LUM	5 30L UM	S35LUM	550LUM 5		1				TOWER AXI							



### Antenna Mounts

Part Number	Description						
LMF1 5254A6	3 Sector Frame Mount, 15 feet, 2.875 inch - 4.5 inch OD legs,						
	6 mounting pipes						
LMF15254A9	3 Sector Frame Mount, 15 feet, 2.875 inch - 4.5 inch OD legs,						
	12 mounting pipes						
LMF12254A6	3 Sector Frame Mount, 12 feet, 2.875 inch - 4.5 inch OD legs,						
	6 mounting pipes						
LMF12254A9	3 Sector Frame Mount, 12 feet, 2.875 inch - 4.5 inch OD legs						
	9 mounting pipes						
LMF12254A12	3 Sector Frame Mount, 12 feet, 2.875 inch - 4.5 inch OD legs,						
	12 mounting pipes						
LMF20254A6	3 Sector Frame Mount, 20 feet, 2.875 inch - 4.5 inch OD legs,						
	6 mounting pipes						
LMF20254A12	3 Sector Frame Mount, 20 feet, 2.875 inch - 4.5 inch OD legs,						
	12 mounting pipes						

#### Sector Frame Mount

This mount will fit straight or tapered tower sections with round member legs 2.875 inch O.D. through 4.5 inch O.D. and face widths of up to 14 ft., making it ideal for co-location application. The frame facce width size from 12 to 20 feet wil fit most requirements. Mounting pipes are 8 feet long. All compenents are hot dip galvanized after fabrication. Each part number includes mounts for three sectors, mounting pipes, and all hardware required to attach mount to tower. Illustration below shows one sector only.

Mounts for additiona leg diameters available upon request.









## Side Arms - 3' and 6'

Part Number	Description
SA324A	Three Foot Side Arm, 2.375 inch - 4.5 inch OD legs
SA356A	Three Foot Side Arm, 5.5 inch - 6.63 inch OD legs
SA624A	Six Foot Side Arm, 2.375 inch - 4.5 inch OD legs
SA656A	Six Foot Side Arm, 5.5 inch - 6.63 inch OD legs

ROHN offers both Three and Six Foot side arm assemblies for straight or tapered tower sections. Kits are the same for either straight or tapered sections and may be oredered for legs 2.375" OD throuth 5.5" OD or 5.5" thround 6.63" OD. Side arms to fit larger leg diameters are available upon request. These side arms are also available with either one or two tie back assemblies at additional cost. All items are hot dip galvanized.

#### **BMR Side Arms**

ROHN offers both Three and Six Foot side arm assemblies for straight or tapered tower sections. Kits are the same for either straight or tapered sections and may be oredered for legs 2.375" OD throuth 5.5" OD or 5.5" thround 6.63" OD. Side arms to fit larger leg diameters are available upon request. These side arms are also available with either one or two tie back assemblies at additional cost. All items are hot dip galvanized.

For further information and pricing on BMR Side Arms, please call.







230







232



BJLL OF MATERIAL       ITEM OUNI. PART NO.     DESCRIPTION     DWG. NO.       2     1     3     KN275     WOWTING PIFE 25TD X 5' LG.     B651/080       3     2     XY14     CONNECTION PLATE     DMG. NO.       5     2     XY14     CONNECTION PLATE     DMG. NO.       6     8     2560/16     9/16* TION PLATE     B651/080       7     8     2300/15     9/16* TION PLATE     MAA       8     2300/15     1/2* MUT FOR U-BOLT     MAA	ASSY P/W       PIPE LE6       WIG PLATE       U-BOL T         5A324A       2.375-4.5       KHI614       UBB3         5A324A       2.375-4.5       KHI614       UBB3         5A3256A       5.56-6.63       KHI615       URB9         5A356A       5.56-6.63       KH1615       UBB5         5A356A       5.56-6.63       KH1716       URB9         5A356A       6.75       KH1716       UB905         5A350A       8.75       KH1716       UB905         5A352A       10.75       KH1960       UR110         5A352A       12.75       KH1961       UR10	No. A Revision Description     Description       No. A Revision Description     Soler A Rev Br A Cod Br A Nord Br       No. Description     Since Section       10. Description     Since Section       10. Description     Since Section       10. Description     Since Section       11. Description     Since Section       10. Description     Since Section       11. Description     Since Section
	RECOMMENDED CLAMPING POSITION FOR ANTENNA MOUNTING CLAMPS	<ul> <li>TYP. ITYP. ITYP. O</li> <li>TYP. ITYP. ITYP. O</li> <li>TYP. ITYP. ITYP. O</li> <li>NOTES</li> <li>NOT</li></ul>





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BE LOCATED A
MUST
MOUNTING PLATES
ARM









30" ±	STOF ARM ASSEMBLY BILL OF WATERLA
	1 1 KH275 WOMTING PIPE 25TD X 50" L6. 8770/60
LEG U-BOLT ASSY (SEE CHART FOR P/N)	2 2 KH1279 MOMTING PIPE 25TD X 4"-0" L6. B770160
	1 2 20 JAB3A U-B0LT ASSY B651028
	4 2 KY14 CONNECTION PLATE C740106
	TPP         5         2         230015         1/2" ANCO NUT         N/A
	6 4 KHI614 MOWATING PLATE BB10894
	7   θ SEE CHURT   LEG U-BOLT ASSY WYNISHERS B651028
	B 2 KY1159 TIE-BACK COMECTION PLATE B841241
	9 2 KH233 SWY BRACE 25TD X 13'-4" L6. B770160
	10 2 KT1073 SADUE CLAMP (LOWER) B640924
The second secon	11 Z 0114 SADDLE CLAMP (UPPER) B770214
	12 4 2100136A 378 X 4 BUT ASSY C770404
	NOTE: WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES
	TOWER LEG SIZE SIDE ARM ASSY P.N LEG U-BOUT ASSY
	Z* PIPE 5A32PL27B JRB3AW
	2 1/2" PIPE 5432591_27B JAB4AW
	3" PIPE 5433PL278 JR98AW
	3 1/2" PIPE 54335PL2TB JR894W
))	4" PIPE SAS4PL27B JRB5AW
TOWER LEG (REF) NOTE: THIS SIDE ARM IS DESIGNED FOR AN!	NDTE. TUIS TTE BACK ADDANGEMENT TE TO BE
ALLOWABLE ANTENNA LOADING OF 6	A FACE SPREAD OF 8-1-65* ANT LOGATIONS ON TONERS WITH A FACE SPREAD OF 8-1-65* OR LESS
ELEVATION	RECOMMENDED ANTERNA NOTE: SIDE ARM ORIENTATION MAY VARY CLAMPING POSITIONS FROM TOWER AXIS.
	NOTE: SIDE ARM MOUNTING PLATES MUST BE LOCATED AS CLOSE AS POSSIBLE TO
	LEG-BRACE INTERSECTION.
	R3         ADDED         25" ORIENTATION         AND         NOTE         8-30-9          WEB         WOL         75
	RZ AUDED SIDE AAN NOTE 8/11/30 WEB 2/22 73
	THE DAMING IS THE PROPERTY OF AGAY, IT IS NOT ROUTE OF ADDR TO BE REPROSED. COPTED OF AGAY, IT IS NOT ROUTE OF ADDR
	in Part Almou on written oneen. Seele: NDVE By Date Trifie:
	Dream: RNB 1/14/205 3' SIDE ARM ASSY W/2 TIE-BACKS Dreamed: GPW 1/2/4/205 FOR STRA10HT OR TAPEARED TOWER SECTIONS
	APP. 50105: 12 12/3/86 ENG. FILE: DRAWING ND.: CB6/004R

DRAWING NO.: CB61004R3

ENG. FILE:







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Set of the	ELEVATION



Universal

**Tower Antenna Mounts** 





**Tower Antenna Mounts** 

Universal



























# Pipe - Hot Dip Galvanized

All pipe is hot dip galvanized inside and outside.

#### Pipe, Standard (Schedule 40)

Pipe,	Extra	Heavy	(Schedule 80)
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<b>D</b> ·	ripe, siu		; 40)
Descrip	ofion	Part	
I.D.	Length	Number	Weight
2"	5'	KH275	20
2"	6'	KH1256	24
2"	6'8"	KH281	26
2"	7'	KH1617	27
2"	8'	KY863	30
2"	9'	VX1695	35
2"	10'	KH287	39
2"	11'	KH4476	43
2"	12'	KH365	47
2"	13'4"	KH293	52
2"	14'	KH2805	55
2"	15'	KH299	58
2"	16'	KH2806	62
2"	17'	KH3545	66
2"	18'	KH2807	70
2.5"	5'	KH276	31
2.5"	6'	KH2576	37
2.5"	6'8"	KH282	41
2.5"	7'	KH2582	43
2.5"	8'	KH2541	50
2.5"	10'	KH288	62
2.5"	12'	KH366	74
2.5"	13'4"	KH294	82
2.5"	14'	KH2802	86
2.5"	1.5'	KH300	92
2.5"	16'	KH2803	99
2.5"	18'	KH2804	111
2.5"	20'	KH/813	123
2.5	20	1114010	120
<b>/</b> "	5'	KH279	58
 /"	6'	KH/393	65
	6'8"	KH285	77
4	7'	KH2653	80
4 1"	/ 8'	KH2447	00
4	10'	KI IZ44/ KU201	115
4	10	KH271	110
4	12	KH307	1.50
4"	13'4"	KH27/	100
4"	14'	KH2509	101
4"	15'	Kh303	1/2

Descript	ion	Part	
I.D.	Length	Number	Weight
2"	5'	KH4400	26
2"	6'	KH1194	36
2"	6'8"	KH3791	38
2"	7'	KH2229	43
2.5"	5'	KH1200	41
2.5"	6'8"	KH1201	55
2.5"	8'	KH2987	65
2.5"	10'	KH1202	82
2.5"	12'	KH1203	98
2.5"	13'4"	KH4390	109
2.5"	14'	KH5768	114
2.5"	15'	KH4713	122
4"	5'	KH1221	80
4"	6'8"	KH1222	106
4"	8'	KH1977	127
4"	10'	KH1223	159
4"	12'	KH1224	191
4"	13'4"	KH1225	212
4"	15'	KH1226	239
4"	16'	KH3614	254
4"	18'	KH5627	286



# Non Penetrating Roof Mounts



Products for A Growing World of Technology







# Non-Penetrating Mounts

## For Today's Communication Needs

Not only can ROHN provide you with towers and poles to meet the stringent demands of today's communication industry, we can also provide non-penetrating roof mounts needed to complete the project. ROHN offers many different models of non-pen mounts suitable for antennas up to 3 meters in diameter

# ROHN QUALITY

ROHN non-penetrating mounts are all designed and engineered to handle the job of getting above ground interference. Each mount has been

researched and developed to serve a specific purpose. With professionally engineered construction, you can be assured you're getting a virtually maintenance free product built to the highest standards. And because our mounts are Hot Dip Galvanized, our mounts won't rust.

### FEATURES

ROHN's Non-Penetrating Roof Mounts are designed for PCS, Wireless Cable, DBS, and UHF/VHF reception, etc. Features include:

- No penetration on roof surface
- Galvanized for corrosion protection
- Designed for concrete block ballast
- Varied mast heights are available
- Varied mast pipe O.D.'s are available
- Goes together quickly
- Minimum of bolted connections
- Engineering ballast tables available
- Optional roof pads or mats are available
- Some models are UPS shippable

# Blank






		25G B	RM ALLOWABL	25G BRM ALLOWABLE ANTENNA AREAS										
EFFECTIVE PROJECTED AREA (EPA)	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs ONE SECTION (MPH)	Vs TWO SECTIONS (MPH)	Vmax AT CE PROJECTED CENTROID OF	NTROID OF AREA (MPH) ANTENNA EPA								
(FT <sup>2</sup> )			h = 12.4 FT	h = 22.4 FT	h = 12.4 ft (1 sect)	h = 22.4  ft (2  sect)								
	500	5.0	131	96	111	65								
	750	7.5	160	117	136	80								
	1000	10.0	185	135	157	92								
2	1250	12.5	207	151	1/6	103								
2	1750	17.5	245	179	201	111								
	2000	20.0	250	191	201	124								
	2250	22.5	250	203	221	130								
	2500	25.0	250	214	231	135								
	2750	27.5	250	224	240	140								
	3000	30.0	250	234	244	143								
	500	5.0	113	88	92	57								
	750	7.5	138	107	112	70								
	1000	10.0	159	124	130	81								
	1250	12.5	178	139	145	91								
4	1500	15.0	195	152	157	98								
	2000	20.0	225	175	174	104								
	2250	22.5	239	186	182	114								
	2500	25.0	250	196	190	119								
	2750	27.5	250	206	198	124								
	3000	30.0	250	215	201	126								
	500	5.0	100	82	80	52								
	750	7.5	123	100	98	63								
	1000	10.0	142	115	113	73								
6	1200	12.5	159	129	120	82								
Ŭ	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	1/5	113								
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	25G BRM ALLOWABLE ANTENNA AREAS										
EFFECTIVE PROJECTED AREA (EPA)	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs ONE SECTION (MPH)	Vs TWO SECTIONS (MPH)	Vmax AT CE PROJECTED CENTROID OF	NTROID OF AREA (MPH) ANTENNA EPA					
(FT <sup>2</sup> )		( )	h = 12.4 FT	h = 22.4 FT	h = 12.4 ft (1 sect)	h = 22.4  ft (2  sect)					
8	500 750 1000 1250 1500 1750 2000 2250 2500 2750	5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5	91 112 129 144 158 171 183 194 204 214	76 94 108 121 132 143 153 162 171 179	72 $72$ $88$ $101$ $113$ $122$ $129$ $136$ $142$ $149$ $154$	h = 22.4 π (2 sect) 48 58 67 75 81 86 90 95 99 103					
	3000	30.0	224	187	157	104					
10	500 750 1000 1250 1500 1750 2000 2250 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	84 103 119 133 146 158 169 179 189 198 207	72 89 102 114 125 135 145 153 162 169 177	66 80 93 104 112 118 124 130 136 141 144	44 54 63 70 76 80 84 88 92 95 97					
12	500 750 1000 1250 1500 1750 2000 2250 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	79 97 112 125 137 148 158 167 176 185 193	69 84 97 109 119 128 137 146 154 161 168	61 74 86 96 104 110 115 121 126 131 133	42 51 59 66 71 75 79 83 86 90 91					
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	ASJ	DA	TE: 8/28/99		<b>ROHN Industries</b>	, Inc.					
APP'D ENG:         MSJ         DATE:         8/31/99           APP'D SALES:         DATE:         DATE:         1/99				2	5G BRM ALLOW	ABLE					
DRAWING NUM	ABER:	A99	2094-2 OF 9		ANTENNA ARE	AS					



		25G BR	M ALLOWABL	E ANTENNA	AREAS	
EFFECTIVE PROJECTED	BALLAST			Vs TMO	Vmax AT CE	
AREA	(200)	LOAD	SECTION	SECTIONS	CENTROID OF	ANTENNA EPA
(EPA) (ET <sup>2</sup> )		(PSF)	(MPH)	(MPH)		
	500		11 = 12.4 F I	11 - 22.4 F I	h = 12.4  ft (1  sect)	h = 22.4 ft (2 sect)
	500	5.0	/4	66	57	39
	1000	10.0	105	00 03	80	40
	1250	12.5	117	104	90	62
14	1500	15.0	129	114	97	67
	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	1/4	154	123	85
	3000	30.0	102	101	125	00
	500	5.0	70	63	54	37
	750	7.5	86	77	66	46
	1000	10.0	100	89	/6	53
16	1250	12.0	122	99 100	00 02	59 64
10	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
18	1250	12.0	116	90	01 87	00 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	142	110	77
	3000	30.0	164	148	112	78
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	ABER:	A9	92094-3 OF 9			<b></b>
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Form No. 95-2806M

## ANGLE ANTENNA GRAVITY MOUNT

Ballast Requirements Chart

		Zero Velocity		Wind S Coef	peeds Resulting in ficient of Friction =	Sliding .50
Antenna Diameter	Ballast (pounds)	Root Load	Max. V (MPH)	$FL = 0^{\circ}$	FL = 20°	$FL = 40^{\circ}$
4 Ft. (1.2M)	1000 1500 2000 2500 3000 3500 4000 5000 6000	6 9 12 15 18 21 24 30 36	135 164 187 207 225 240 250 250 250 250	91 111 128 143 157 170 181 203 222	93 114 132 147 161 174 186 208 228	101 123 142 159 174 188 201 225 246
6 Ft. (1.8M)	1000 1500 2500 3000 3500 4000 5000 6000	6 9 12 15 18 21 24 30 36	90 109 125 138 150 160 165 165 165	60 74 85 96 105 113 121 135 148	62 76 88 98 108 116 124 139 152	67 82 95 106 116 125 134 150 164
8 Ft. (2.4M)	1000 1500 2000 2500 3000 3500 4000 5000 6000	6 9 12 15 18 21 24 30 36	68 82 94 104 112 120 125 125 125	45 56 64 72 79 85 91 101 111	47 57 66 74 81 87 93 104 114	50 62 71 79 87 94 101 112 123
10 Ft. (3.0M)	1000 1500 2000 2500 3000 3500 4000 5000 6000	6 9 12 15 18 21 24 30 36	46 56 64 71 77 82 85 85 85 85	31 38 44 49 54 58 62 69 76	33 40 46 52 57 61 65 73 80	40 49 57 64 70 75 80 85 85

Information stated herein is based upon Engineering Drawing A880397R1 to be used as a guide in calculating the required ballast amounts for the AAGM Antenna Gravity Mount series. This infomation is the property of UNR-ROHN. It is not to be reproduced, copied or traced in whole or in part without our written consent.



- Ballast requirements are provided to assist consumers in determining the applicability of the AAGM for an antenna installation. Refer to UNR-ROHN Engineering Report 870101 dated July 28, 1988 for test data used to generate the ballast requirements indicated. The ballast data should not be relied upon without competent local professional examination and verification of its accuracy and suitability for a specific site or application.
- 2. Ballast requirements are based on typical ANSI/EIA-222-D paraboloid antennas supported 12 inches from the vertex of the antenna on a 54 inch long mounting pipe on a flat supporting surface. Specific antenna types may require more stringent wind loads and ballast requirements and must be investigated for each installation. The load carrying requirements of the supporting surface, the mast, the antenna and the antenna's connection to the mast must also be investigated for each installation.
- 3. The ballast weights indicated are net ballast weights, and must be uniformly distributed over all panels. The effective weight of the gravity mount and antenna may be deducted from the ballast weights indicated to determine ballast pan weight requirements. The effective weight of the gravity mount and antenna may be calculated by subtracting the uplift component of wind load from the actual weight of the gravity mount and antenna. (Worst case uplift wind load component = .000910 (A) (V) 2 at an 80° elevation angle).
- 4. The zero velocity roof loads shown are equal to the ballast weights indicated divided by the total area enclosed by the perimeters of the gravity mounts (i.e. an area greater than the ballast pan contact area). If effective gravity mount and antenna weights are considered when determining ballast pan weight requirements, the zero velocity roof loads will be higher than those indicated due to the absence of the uplift component of wind load. The zero velocity roof load, in all cases, equals the weight of the gravity mount, antenna and ballast weight divided by the total area enclosed by the perimeter of the gravity mount (166 sq. ft.). Total roof loads under wind loading conditions would include wind forces and moments, weight of ballast, gravity mount, antenna and roof pads. (Worst case download component = .003374 (A) (V) 2 at a 60° elevation angle.
- 5. Maximum wind velocities are based on a minimum 1.5 factor of safety against structural failure and overturning for the worst case antenna elevation angle. The wind speeds which may occur at an installation must be determined on an individual site basis.



6. The tabulated wind speeds resulting in sliding are based on a factor of safety (F.S.) equal to 1.0 and a coefficient of friction (μ) equal to .50. Wind speeds are given for 0, 20, and 40 degree antenna elevation angles. The .50 coeffficient of friction value was determined from full-scale load tests using wet UNR-ROHN roof pads on wet troweled finished concrete. The appropriate coefficient of friction to determine wind speeds resulting in sliding must be determined on an individual site basis.

Wind speeds resulting in sliding for other factors of safety or for other coefficients of friction may be found by multiplying the tabulated wind speeds resulting in sliding by the following factor:



- 7. UNR-ROHN recommends that ballast material always be placed prior to mounting the antenna and that roof pads and gravity mount be secured to prevent hazards from occurring under extreme wind loading conditions.
- 8. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast rails and under the mast pipe. When roof pads are utilized, the minimum coefficient of friction between ballast rails and roof pad or between the roof pads and supporting surface must be used to calculate the wind speeds resulting in sliding.
- 9. When adhesives, sealants, or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to ensure that damage to the supporting surface will not occur upon wind loading.
- 10. Adhesives and sealants must be capable of resisting shear, otherwise they may act as a lubricant and decrease the effective coefficient of friction between the ballast rails and the supporting surface. Windward ballast rails may partially lift off at wind speeds well below the maximum wind speeds indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.







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EFFECTIVE PROJECTED AREA	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH)										
(FT <sup>2</sup> )				h=2 FT	h=3FT	h=4 FT	h=5 FT	h=6 FT	h=7FT	h=8 FT	h=9FT			
	300	7.1	171	242	198	171	153	140	130	121	114			
	500	11.8	221	313	256	221	198	181	167	157	148			
	700	16.6	261	370	302	262	234	214	198	185	175			
	900	21.3	296	416	340	294	263	240	223	208	196			
	1100	26.0	328	448	366	317	284	259	240	224	211			
2	1500	30.0	383	506	A1A	358	302	2/0	250	239	225			
	1700	40.2	407	533	435	377	337	308	285	267	255			
	1900	45.0	431	558	456	395	353	322	299	279	263			
	2100	49.7	453	583	476	412	369	336	312	291	275			
	2300	54.4	474	604	493	427	382	349	323	302	285			
	300	7.1	121	171	140	121	108	99	92	86	81			
	500	11.8	156	221	181	157	140	128	118	111	104			
	700		185	262	214	185	166	151	140	131	123			
	900	21.3 210 294 240 208 186 170 157 147 139 260 260 272 2417 259 224 201 182 169 159 140												
4	1300	20.0	252	338	259	224	201	195	181	169	149			
<b>–</b>	1500	35.5	271	358	292	253	226	207	191	179	169			
	1700	40.2	288	377	308	267	238	218	201	188	178			
	1900	45.0	305	395	322	279	250	228	211	197	186			
	2100	49.7	320	412	336	291	261	238	220	206	194			
	2300	54.4	335	427	349	302	270	247	228	213	201			
	300	7.1	99	140	114	99	89	81	75	70	66			
	500	11.8	128	181	148	128	114	104	97	90	85			
	700	16.6	151	214	1/5	151	135	123	114	107	101			
	900	21.3	100	240	211	192	164	139	120	120	113			
6	1300	30.8	206	255	225	195	175	159	148	138	130			
Ŭ	1500	35.5	221	292	239	207	185	169	156	146	138			
	1700	40.2	235	308	251	218	195	178	165	154	145			
	1900	45.0	249	322	263	228	204	186	172	161	152			
	2100	49.7	261	336	275	238	213	194	180	168	159			
	2300	54.4	274	349	285	247	220	201	186	174	164			
	300	7.1	86		99	86	77	70	65	61	57			
	500	11.8	110	157	128	111	99	107	84	/8	74 97			
	900	21.3	148	208	170	147	132	120	111	104	98			
	1100	26.0	164	224	183	159	142	129	120	112	106			
8	1300	30.8	178	239	195	169	151	138	128	120	113			
	1500	35.5	191	253	207	179	160	146	135	127	119			
	1700	40.2	204	267	218	188	169	154	142	133	126			
	1900	45.0	215	279	228	197	177	161	149	140	132			
	2100	49.7	226	291	238	206	184	168	156	146	13/			
	2300 54.4 237 302 247 213 131 174 101 131 142													
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### BRM4 AND BRM410 ALLOWABLE ANTENNA AREAS



### BRM4 AND BRM410 ALLOWABLE ANTENNA AREAS

EFFECTIVE PROJECTED AREA	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH)							
(E.P.A.) (FT <sup>2</sup> )				h=2 FT	h=3FT	h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT
	300	7.1	77	108	89	77	69	63	58	54	51
	500	11.8	99	140	114	99	89	81	75	70	66
	700	16.6	117	166	135	117	105	96	89	83	78
	900	21.3	133	186	152	132	118	107	100	93	88
	1100	26.0	147	201	164	142	127	116	107	100	95
. 10	1300	30.8	159	214	175	151	135	123	114	107	101
	1500	35.5	171	226	185	160	143	131	121	113	107
	1700	40.2	182	238	195	169	151	138	12/	119	112
	1900	45.0	193	250	204	10/	158	144	134	125	110
	2100	49.7 54 A	203	270	213	191	171	150	135	130	123
	2300	7 1	70	270	81	70	63	57	53	135	47
	500	11.8	90	128	104	90	81	74	68	64	60
	700	16.6	107	151	123	107	96	87	81	76	71
	900	21.3	121	170	139	120	107	98	91	85	80
	1100	26.0	134	- 183	149	129	116	106	98	92	86
12	1300	30.8	145	195         159         138         123         113         104         98         92           195         159         138         123         113         104         98         92							92
	1500	35.5	156	207         169         146         131         119         111         103         97           207         159         146         131         119         111         103         97							
	1700	40.2	166	218         178         154         138         126         116         109         103							
	1900	45.0	176	218         176         164         166         126         116         166         166           228         186         161         144         132         122         114         107							
	2100	49.7	185	238         194         168         150         137         127         119         112           218         194         168         150         137         127         119         112							
	2300	54.4	193	247	201	174	156	142	132	123	116
	300	7.1	65	92	75	65	58	53	49	46	43
	500	11.8	84	118	97	84	75	68	63	59	56
	700	16.6	99	140	114	99	89	81	75	.70	66
	900	21.3	112	157	128		100	91	84	79	74
	1100	26.0	124	169	138	120	107	98	91	85	80
14	1300	30.8	135	181	148	128	114	104	9/	90	00
	1500	35.5	145	201	150	142	127	116	102	101	95
	1000	40.2	162	201	172	142	134	122	113	106	100
	2100	45.0	171	220	180	156	139	127	118	110	104
	2300	54.4	179	228	186	161	144	132	122	114	108
	300	7.1	61	86	70	61	54	49	46	43	40
	500	11.8	78	111	90	78	70	64	59	55	52
1	700	16.6	92	131	107	93	83	76	70	65	62
	900	21.3	105	147	120	104	93	85	79	74	69
	1100	26.0	116	159	129	112	100	92	85	79	75
16	1300	30.8	126	169	138	120	107	98	90	85	80
	1500	35.5	135	179	146	127	113	103	96	90	84
	1700	40.2	144	188	154	133	119	109	101	94	89
	1900	45.0	152	197	161	140	125	114	106	99	93
	2100	49.7	160	206	168	146	130	119	110	103	9/
	2300	54.4	168	213	1/4	151	135	123	114	1 107	
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EFFECTIVE	BALLAST	ZERO	Vs (MPH)								
PROJECTED	(LBS)	VELOCITY		Vmax AT CENTROID OF PROJECTED AREA, (MPH)							
(FPA)		LOAD (PSF)		Vmax AT CENTROID OF PROJECTED AREA, (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							
(E.IP.C.) (FT <sup>2</sup> )				h = 2 FT	h=3 FT	h = 4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h = 9 FT
	300	7.1	57	81	66	57	51	47	43	40	38
	500	11.8	74	104	85	74	66	60	56	52	49
	700	16.6	87	123	101	87	78	71	66	62	58
	900	21.3	99	139	113	98	88	80	74	69	65
	1100	26.0	109	149	122	106	95	86	80	75	70
18	1300	30.8	119	159	130	113	101	92	85	80	75
	1500	35.5	128	169	138	119	107	97	90	84	80
	1700	40.2	136	178	145	126	112	103	95	89	84
	1900	45.0	144	186	152	132	118	107	100	93	88
	2100	49.7	151	194	159	137	123	112	104	97	92
	2300	54.4	158	201	164	142	127	116	108	101	95
	300	/.1	54	//	03	54	48	44	41	38	36
	500	11.0	70	99		70	03	57	53	49	4/
	700	21.2	0.0	122	107	03	02	76	70	59	55
	1100	21.3	104	- 142	116	100	03 00	82	70	71	67
20	1300	30.8	112	151	123	107	96	87	81	76	71
20	1500	35.5	121	160	131	113	101	92	86	80	75
	1700	40.2	129	169	138	119	107	97	90	84	79
	1900	45.0	136	177	144	125	112	102	94	88	83
	2100	49.7	143	184	150	130	117	106	99	92	87
	2300	54.4	150	191	156	135	121	110	102	95	90
	300	7.1	52	73	60	52	46	42	39	37	34
	500	11.8	67	94	77	67	60	54	50	47	44
	700	16.6	79	112	91	79	71	64	60	56	53
· · · · ·	900	21.3	89	126	102	89	79	72	67	. 63	59
	1100	26.0	- 99	135	110	96	86	78	72	68	64
22	1300	30.8	107	144	118	102	91	83	77	72	68
	1500	35.5	115	153	125	108	97	88	82	76	72
	1700	40.2	123	161	131	114	102	93	86	80	76
	1900	45.0	130	168	137	119	106	97	90	84	79
	2100	49.7	137	176	143	124		101	94	88	83
	2300	54.4	143	182	149	129	115	105	97	91	86
	300		49		5/	49	44	40	3/	35	33
	500	11.0	04	107		76	69	62	40	40	43
	700	10.0	75	120	0/	70	76	60	61	60	50
	1100	21.5	95	120	106	92	82	75	69	65	61
24	1300	30.8	103	138	113	98	87	80	74	69	65
	1500	35.5	110	146	119	103	92	84	78	73	69
	1700	40.2	118	154	126	109	97	89	82	77	73
1	1900	45.0	124	161	132	114	102	93	86	81	76
	2100	49.7	131	168	137	119	106	97	90	84	79
	2300	54.4	137	174	142	123	110	101	93	87	82
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#### BRM4 AND BRM410 ALLOWABLE ANTENNA AREAS



BALLAST REQUIREMENTS FOR 78 INCH SQUARE BRM										
ANTENNA		ZERO VELOCITY		WIND SPEED COEFFICIE	S RESULTING	G IN SLIDING FION = .50				
DIAMETER	BALLAST (POUNDS)	ROOF LOAD (PSF)	MAX. V (MPH)	$EL = 0^{\circ}$	$EL = 20^{\circ}$	$EL = 40^{\circ}$				
	150	4	78	70	72	78				
	200	5	90	81	83	90				
2 FT (.6m)	300	7	110	99	102	110				
	400	10	127	115	118	127				
	500	12	142	128	132	142				
	200	5	45	41	42	45				
	400	10	64	57	59	64				
	600	14	78	70	72	78				
	800	19	90	81	83	90				
4 FT	1000	24	101	91	93	101				
(1.2m)	1200	29	110	99	102	110				
	1400	33	119	107	110	119				
	1600	38	127	115	118	127				
	1800	43	135	122	125	135				
	2000	48	140	128	132	140				
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Drawing No. A881574-2

- 1. Ballast requirements are provided to assist consumers in determining the applicability of the 78 inch square ballast roof mount (BRM) for an antenna installation. The ballast data should not be relied upon without competent local professional examination and verification of its accuracy and suitability for a specific site or application.
- 2. Ballast requirements are based on typical ANSI/EIA-222-D paraboloid antennas supported 12 inches from the vertex of the antenna on a 36 inch long mounting pipe on a flat supporting surface (See note 11). Specific antenna types may require more stringent wind loads and ballast requirements and must be investigated for each installation. The load carrying requirements of the supporting surface, the mast, the antenna and the antenna's connection to the mast must also be investigated for each installation.
- 3. The ballast weights indicated are net ballast weights, and must be uniformly distributed over all panels. The effective weight of the mount and antenna may be deducted from the ballast weights indicated to determine ballast panel weight requirements. The effective weight of the mount and antenna may be calculated by subtracting the uplift component of wind load from the actual weight of the mount and antenna. (Worst case ANSI/EIA-222-D uplift wind load component = .000910 (A) (V) 2 at an 80° elevation angle).
- 4. The zero velocity roof loads shown are equal to the ballast weights indicated divided by the total area enclosed by the perimeter of the mount (i.e. an area greater than the ballast panel contact area). If effective mount and antenna weights are considered when determining ballast panel weight requirements, the zero velocity roof loads will be higher than those indicated due to the absence of the uplift component of wind load. The zero velocity roof load, in all cases, equals the weight of the mount, antenna, and ballast panel weights, divided by the total area enclosed by the perimeter of the mount (42 sq. ft.). Total roof loads under wind loading conditions would include wind forces and moments, weights of ballast, mount, antenna and roof pads. (Worst case ANSI/EIA-222-D download wind component =.003374 (A) (V) 2 at a 60° elevation angle).
- 5. Maximum wind velocities are based on a minimum 1.5 factor of safety against structural failure and overturning for the worst case antenna elevation angle. (See notes 12 and 13). The wind speeds which may occur at an installation must be determined on an individual site basis.
- 6. The tabulated wind speeds resulting in sliding are based on a factor of safety (F.S.) equal to 1.0 and a coefficient of friction (μ) equal to .50. (See note 13). A 1.0 factor of safety was used assuming that at higher wind speeds, safety cables or other suitable attachments to the support structure would prevent sliding beyond a safe, designated area. Wind speeds are given for 0, 20, and 40 degree antenna elevation angles. The .50 coefficient of friction value was determined from full-scale load tests using wet UNR-Rohn roof pads on wet troweled finished concrete. The appropriate coefficient of friction to determine wind speeds resulting in sliding must be determined on an individual site basis. The coefficient of friction may vary under changing moisture and temperature conditions.

### Drawing No. A881574-2



Wind speeds resulting in sliding for other factors of saftey or for other coefficients of friction may be found by multiplying the tabulated wind speeds resulting in sliding by the following factor:



- 7. UNR-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 ballast material is fully supported by the ballast support angles (required for ballast to be effective in resisting overturning and slidng).
- 8. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast panels and under the mast pipe. When roof pads are utilized, the minimum coefficient of friction between the ballast panels and roof pad or between the roof pads and supporting surface must be used to calculate the wind speeds resulting in sliding.
- 9. When adhesives, sealants or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to insure that damage to the supporting surface will not occur upon wind loading.
- 10. Adhesives and sealants must be capable of resisting shear, otherwise, they may act as a lubricant and decrease the effective coefficient of friction between the ballast panels and the supporting surface. Windward ballast panels may partially lift off at wind speeds well below the maximum wind speeds indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.



Wind speeds resulting in sliding for other factors of saftey or for other coefficients of friction may be found by multiplying the tabulated wind speeds resulting in sliding by the following factor:



- 7. UNR-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 ballast material is fully supported by the ballast support angles (required for ballast to be effective in resisting overturning and slidng).
- 8. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast panels and under the mast pipe. When roof pads are utilized, the minimum coefficient of friction between the ballast panels and roof pad or between the roof pads and supporting surface must be used to calculate the wind speeds resulting in sliding.
- 9. When adhesives, sealants or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to insure that damage to the supporting surface will not occur upon wind loading.
- 10. Adhesives and sealants must be capable of resisting shear, otherwise, they may act as a lubricant and decrease the effective coefficient of friction between the ballast panels and the supporting surface. Windward ballast panels may partially lift off at wind speeds well below the maximum wind speeds indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.

BRMS         MAST         SPECIFICATIONS           NO.         PART NO.         DESCRIPTION           AMO.         PART NO.         DESCRIPTION           AMMS         PART NO.         DESCRIPTION           AMMSSM         KTTOTO         BAME SUT         DESCRIPTION           AMMSSM         KTTOTO         BAME SUT         DESCRIPTION           AMMSSM         KTTOTO         BAME SUT         DESCRIPTION           AMMSSM         KTTOTO         BAME WITH 5 STO.         PTER(5.0.0) X 45-3.4"           BAMESOM         KTTOTO         BAME WITH 4 STO.         PTER(5.0.0) X 45-3.4"           BAMESOM         KTTOTO         BAME WITH 4 STO.         PTER(6.0.0) X 45-3.4"           BAMESIA         KTTOTO         BAME WITH 4 STO.         PTER(6.5.0) N 45-3.4"           BAMESIA         KTTOTO         BAME WITH 4 STO.         PTER(6.5.0) N 45-3.4"           BAMESIA         KTTOTO         BAME WITH 4 STO.         PTER(6.5.0) N 45-3.4"	ITEM         BRUG         BILL         OF         MATERIAL           1         1         1         1         1         1         0.001.         PART NO.         DESCRIPTION         DWO.         DWO.<
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	BRN	/16 BALLAST	REQU	REMEN	TS TAE	BLE		
		ZERO		DE COEFI	SIGN WI	ND VELO	CITIES	)
DIAMETER	(POUNDS)	LOAD	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
	1000	10.0	125	95	154	107	167	131
4 FT	1250	12.5	139	106	169	119	189	146
(1.2m)	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
2000         2010         100         100         101         211         101           500         5.0         58         45         65         50         69         0								
	750	7.5	71	55	83	61	89	75
	1000	10.0	83	63	99	71	106	87 -
	1250	12.5	93	71	112	79	120	97
	1500	15.0	99	78	120	87	129	107
6 FT	1750	17.5	105	84	127	94	137	115
(1.011)	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
	1500	15.0	74	58	85	65	90	80
8 FT	1750	17.5	78	63	91	70	96	86
(2.4m)	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
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### NOTES FOR BRM6 BALLAST REQUIREMENTS TABLE

- 1. Ballast requirements are provided to assist consumers in determining the applicability of the BRM6 for an antenna installation. Refer to sheets 4, 5, and 6 for the criteria used to develop the ballast requirements table. The ballast data and development criteria should not be relied upon without competent local professional examination and verification of its accuracy and suitability for a specific site or application.
- 2. Ballast requirements are based on typical ANSI/EIA-222-D paraboloid antennas supported 12 inches from the vertex of the antenna on a 48 inch long mounting pipe on a flat supporting surface. The vertex of the antenna is assumed to be at the top of the mounting pipe. Specific antenna types 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 mast, the antenna and the antenna's connection to the mast must also be investigated for each installation.
- 3. The ballast weights indicated are net ballast weights, and must be uniformly distributed over all panels. The weight of the mount and antenna may be considered as ballast. The following table summarizes the weight of the BRM6 mount:

BRM6 Antenna Mount Weights										
Mount No.	BRM635	BRM640	BRM645	BRM655	BRM665					
Mast Pipe Size	3″ Std.	3 1/2" Std.	4″ Std.	5″ Std.	6″ Std.					
Weight (lbs.)	244	251	257	273	290					

- 4. The zero velocity loads shown are equal to the ballast weights indicated divided by the total area enclosed by the perimeter of the mount (100 sq. ft.). This area is greater than the ballast panel contact area. Loads which must also be investigated include reactions caused by wind forces and movements, live loads, and dead loads of ballast, mount, antenna, miscellaneous equipment and roof pads. Refer to sheet 4 for maximum ANSI/EIA-222-D wind load coefficients for paraboloid antennas supported as described in note 2.
- 5. The tabulated maximum wind velocities (Vmax) are based on a minimum 1.5 factor of safety against structural failure and overturning. The wind velocity and the appropriate factor of safety for an installation must be determined on an individual site basis. Potential increases in wind velocity due to channeling, roof projections, and other obstructions, must be considered when determining ballast requirements.



### NOTES FOR BRM6 BALLAST REQUIREMENTS TABLE

- 6. The tabulated wind velocities resulting in sliding (Vs) are based on a factor of safety equal to 1.0 and a coefficient of friction equal to .50. 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. Wind velocities are given for 0, 20 and 40 degree antenna elevation angles. 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.
- 7. 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. Attachments to the supporting structure, under such conditions, must resist the portion of wind load which exceeds the frictional sliding resistance of the mount.
- 8. Refer to sheets 4, 5, and 6 for assistance in determining Vmax and Vs for specific wind load coefficients and/or other factors of safety and coefficients of friction.
- 9. Roof pads are recommended to prevent damage to roof membranes. Pads should be placed under all ballast panels and under the mast pipe. The minimum coefficient of friction must be considered for calculating the wind velocities resulting in sliding. When roof pads are utilized, the surface between the ballast panels and the roof pads and the supporting surface must both be considered.
- 10. 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 ballast material is fully supported by the ballast support angles (required for ballast to be effective in resisting overturning and sliding).
- 11. When adhesives, sealants or pads are utilized, they must be compatible with the supporting surface. They must also be durable and have adequate strength. Precautions should also be taken to insure that damage to the supporting surface will not occur upon wind loading.
- 12. Adhesives and sealants must be capable of resisting shear, otherwise, they may act as a lubricant and decrease the effective coefficient of friction between the ballast panels and the supporting surface. Windward ballast panels may partially lift off at wind velocities below the maximum wind velocities indicated. Adhesives or sealants may be disturbed under such circumstances and may require repairing after major wind loading events.
- 13. 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. Due to the many variables involved, Rohn does not accept responsibility for verifying the applicability of the BRM6 for a specific installation.



### BRM64510 ALLOWABLE ANTENNA AREAS

EFFECTIVE PROJECTED	BALLAST (LBS)	ZERO VELOCITY	Vs (MPH)	Vma	ax AT CEN 4" STD. P	ITROID OF	PROJEC , 4.5" O.D.	TED ARE	4, (MPH) 50	
AREA (E.P.A.)	, , ,	LOAD (PSF)				CENTR	DID OF E.	P.A.		
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
10 FT <sup>2</sup>	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	114 140 161 195 206 217 227 237 246 250	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 FT <sup>2</sup>	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	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						66 81 93 104 113 119 125 131 137 142 144
20 FT <sup>2</sup>	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
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EFFECTIVE PROJECTED	BALLAST (LBS)	ZERO VELOCITY	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH) 4" STD. PIPE MAST, 4.5" O.D., GRADE 50							
AREA (E.P.A.)		LOAD (PSF)				CENTR	OID OF E.	P.A.			
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT	
25 FT <sup>2</sup>	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 FT <sup>2</sup>	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 99 107 114 121 128 134 134	74 90 104 116 126 133 140 147 153 159 161	66 81 93 104 113 125 131 137 142 144	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 93 97 100 102	
35 FT <sup>2</sup>	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	53 65 75 84 91 99 106 112 118 124 129	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	
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### **BRM64510 ALLOWABLE ANTENNA AREAS**



## BRM64510 ALLOWABLE ANTENNA AREAS

EFFECTIVE PROJECTED	BALLAST (LBS)	ZERO VELOCITY	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA, (MPH) 4" STD. PIPE MAST, 4.5" O.D., GRADE 50							
AREA (E.P.A.)		LOAD (PSF)				CENTR	OID OF E.	P.A.			
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT	
40 FT <sup>2</sup>	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 <sup>-</sup> 127 132 138 140	57 70 81 90 97 103 108 113 118 123 125	52 64 74 82 99 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 FT <sup>2</sup>	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 FT <sup>2</sup>	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 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	
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### **ROHN® NON-PENETRATING ROOF MOUNT**

For Wirelss Cable, DBS, and UHF/VHF Reception

- No penetration of roof surface
- Galvanized for corrosion protection
- Designed for concrete block ballast

Specifications								
Model	Mast Height	Mast O.D.						
FRM125	60″	1-1/4″						
FRM150	26″	1-1/2″						
FRM166	26″	1.66″						
FRM238	30″	2-3/8″						
FRM238SP5	60″	2-3/8″						

The FRM series is one of the latest additions to the complete line of ROHN antenna support products. Other receive antenna mounts include gable end mounts, tripod mounts, telescoping masts, towers and wall brackets. The FRM series goes together quickly, with a minimum of bolted connections. The angle steel frame provides sufficient room to hold up to eight concrete blocks (blocks not provided). Disassembled, the lightweight UPS Shippable FRM stores in very small spaces with the angle members nested and the tube braces bundled. Varied mast heights are available to keep a low profile or to allow the antenna to "look" over rooftop obstructions.

Non Penetrating Roof Mounts



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6	250 350 450 650 750 850 950 1050 1150 1250	$     \begin{array}{r}       10.0 \\       14.0 \\       18.0 \\       22.0 \\       26.0 \\       30.0 \\       34.0 \\       38.0 \\       42.0 \\       46.0 \\       50.0 \\     \end{array} $	90 107 121 134 145 156 166 176 185 193 202	105 125 141 156 170 183 194 205 216 226 236	86 102 115 128 139 149 159 168 176 185 192	75 88 100 111 120 129 137 145 153 160 167	67 79 89 99 107 115 123 130 137 143 149	61 72 82 90 98 105 112 119 125 131 136	56 67 76 84 91 98 104 110 115 121 126	53 62 71 78 85 91 97 103 108 113 118	50 59 67 74 80 86 92 97 102 107 111
7	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	84 99 112 124 135 145 154 163 171 179 187	98 115 131 145 157 169 180 190 200 209 218	80 94 107 118 128 138 147 155 163 171 178	69 82 93 102 111 120 127 135 141 148 154	62 73 83 92 100 107 114 120 126 132 138	56 67 76 84 91 98 104 110 115 121 126	52 62 70 77 84 90 96 102 107 112 117	49 58 65 72 79 85 90 95 100 105 109	46 54 62 68 74 80 85 90 94 99 103
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### JRM ALLOWABLE ANTENNA AREAS

H=3FT

H=4FT

H=2FT

Vmax AT CENTROID OF

PROJECTED AREA (MPH)

H=6FT

H=7FT

H=8FT

H=5FT

Vs

(MPH)

EFFECTIVE

PROJECTED

AREA

(EPA) (FT<sup>2</sup>)

BALLAST

(LBS)

ZERO VELOCITY

LOAD

(PSF)

10.0

14.0

18.0

22.0

26.0

30.0

34.0

38.0

42.0

46.0

50.0



H=9FT



### JRM ALLOWABLE ANTENNA AREAS

EFFECTIVE PROJECTED AREA (EPA) (FT <sup>2</sup> )	BALLAST (LBS)	ZERO VELOCITY LOAD (PSF)	Vs (MPH)	Vmax AT CENTROID OF PROJECTED AREA (MPH)							
				H=2FT	H=3FT	H=4FT	H=5FT	H=6FT	H=7FT	H=8FT	H≍9FT
8	250 350 450 650 750 850 950 1050 1150 1250	10.0 14.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0	78 92 105 116 126 135 144 152 160 168 172	91 108 122 135 147 158 168 178 187 196 204	75 88 100 111 120 129 137 145 153 160 167	65 76 87 96 104 112 119 126 132 138 144	58 68 77 86 93 100 106 113 118 124 129	53 62 71 85 91 97 103 108 113 118	49 58 65 72 79 85 90 95 100 105 109	46 54 61 68 74 79 84 89 94 98 102	43 51 58 64 69 75 79 84 88 92 96
10	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	70 83 94 104 113 121 129 136 143 150 156	82 97 110 121 132 141 151 159 167 175 183	67 79 89 107 115 123 130 137 143 149	58 68 77 86 93 100 106 113 118 124 129	52 61 69 77 83 89 95 101 106 111 115	47 56 63 70 76 82 87 92 97 101 105	44 52 59 65 70 76 80 85 89 94 98	41 48 55 61 66 71 75 80 84 88 91	38 46 52 57 62 67 71 75 79 83 86
12	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	64 75 86 95 103 110 118 124 131 137 143	75 88 100 111 120 129 137 145 153 160 167	61 72 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 69 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 59 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
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# COMMERCIAL & Residential Mounts



Products for A Growing World of Technology







## MOUNTS

## For Today's Communication Needs

Not only can ROHN provide you with towers and poles to meet the stringent demands of today's communication industry, we can also provide the mounts and fittings needed to complete the project. ROHN offers many different models of mounts suitable for Satellites, Cellular and PCS applications, as well as mounts for amateur radio and television. The three categories of mounts offered by ROHN are Non-Penetrating Roof Mounts, Commercial Mounts and Residential Mounts.

ROHN manufactures roof and wall mounts for large aperture satellite antennas, including non-penetrating roof mounts for antennas up to 3 meters in diameter. ROHN also manufactures a compete line of towers and mounts for UHF-VHF home TV antennas. Mounts include tripods, telescoping masts, and various wall mounts.

### ROHN QUALITY

ROHN Mounts are all designed and engineered to handle the job of getting above ground interference. Each mount has been researched and developed to serve a specific purpose. With professionally engineered construction and Hot Dip Galvanizing after construction, you can be assured you're getting a virtually maintenance free product built to the highest standards. And because of our Hot Dip Galvanizing after fabrication, our mounts won't rust.

# GENERAL ASSEMBLY

### ROOF MOUNTS

Select a location on your roof where all Tripod or Quadpod feet are over rafters. Use lag screws of sufficient length to go through the roof surfacing material and into the rafter. A minimum of two lag screws per foot is required. If a rafter is not available, additional reinforcement should be added under the roof surface for support. Do not attach feet to roof surface only. Apply roofing compound under and around the feet for moisture sealing. Under no circumstances should anyone attempt to climb upon a Tripod or a Quadpod.

### WALL MOUNTS

Select a location where braces will attach to a structural member (wall stud, sill plate, etc). Use lag screws of sufficient length to go through the wall sheathing and or siding and into the structural member. Apply sealant as required for moisture protection.

## FACIA MOUNTS

Make certain your facia is capable of supporting the loads created by your antenna and mount installation. Select a location where the braces will attach to a structural member. Use lag screws of sufficient length to go through the facia and any other sheathing or siding and into the structural member. Upper and lower brackets should be spaced far enough apart to support loads created by the antenna and mast.

### MAST LENGTH

Do not attach any mast over 10 feet in length without using guys in three or four directions.

### ANTENNA LOAD

Any antenna over 2 square feet in size mounted within 10 feet of mast must be guyed.







# COMMERCIAL MOUNTS

### ROOF MOUNT-TRT AG2

The ROHN TRT AG2 is a heavy duty, commercial quality roof mount. Features include:

- 5' total effective height
- Shipped completely knocked-down for easy assembly in remote areas
- Extra length adjustable base feet for wide range of mounting conditions (anchor bolts not included) drilled to accept 3/8" anchors
- Heavy duty steel construction
- Hot Dip Galvanized after fabrication
- 23 1/8" O.D. mast pipe extending approximately 12" above apex
- Ideal mount to include in antenna packages
- UPS shippable

### THE HOUSE BRACKET UNIT POLE MOUNT

The ROHN HBUPMTVRO is an inexpensive alternative to elaborate ground or yard mounts. In just three easy steps, the HBUPMTVRO can be mounted to the side or end of a building, and it can be fastened to the roof with an optional Roof Mounting Kit.

Capable of receiving up to 5" O.D. maximum, optional ROHN TVRO Mounting Poles, and utilizing the ROHN TVRO ground base, your selected antenna will be elevated above common ground mounted interference hazards. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Optional Roof Mounting Kit
- Easy three-step installation
- Model: HBUPMTVRO
- Adjustable from 0"-36" out from wall
- UPS shippable





## THE POLE SUPPORT MOUNT

The ROHN Pole Support Mount (PSM) can be mounted to the side or end of a building in easy one-step installation. Capable of receiving all sizes of the optional ROHN TVRO mounting poles and utilizing the ROHN TVRO ground base, your TVRO antenna will be elevated above common ground mounting hazards like trees, bushes, houses, etc... Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Easy one-step installation
- Easy one-step installation
- Model: PSM
- UPS shippable



### THE POLE SUPPORT MOUNT

The ROHN Pole Wall Mount (PWM) is designed to support most Satellite, PCS, Cellular or Microwave antennas. With the use of 5' - 7' pipe, the ROHN PWM can be located so antenna and electronics can be easily reached and the pipe distance from the wall adjusts as needed. Additional features include:



- Hot Dip Galvanized after fabrication
- Accepts up to a 5  $\frac{1}{2}$  O.D. pipe
- Optional mounting hardware and pipe available
- Ideal for a variety of antennas
- Easy to reach antenna from rooftop
- Model: PWM
- UPS shippable

### WALL MOUNTS

The ROHN Wall Mount (WM212) is designed to support most Satellite, PCS, Cellular, or Microwave type antennas. The ROHN WM212 can be located so antenna and electronics can be easily reached and the pipe distance from the wall adjusts as needed. Additional features include:

- Hot Dip Galvanized after fabrication
- Includes 5' Long x 2" I.D. x 2  $\frac{1}{2}$ " O.D. schedule 40 mounting pipe
- Optional items include installation hardware (ROHN part #HMK18M or B12 stabilizer straps)
- Available without B12 stabilizer straps







### The Saw Horse Roof Mount

ROHN's Universal Roof Mount (URM) is capable of supporting most TVRO, 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 or burying cable. At the same time, the URM frees up yard space, eliminates some zoning problems and increases security from theft and vandalism. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS Cellular and Microwave antennas
- Easy one-step installation
- Model: URM
- UPS shippable
- · Mounting pipe and installation hardware are optional

### THE SAW HORSE ROOF MOUNT

ROHN's Saw Horse Roof Mounts (SHRM) allow the placement of antennas on roof peaks or flat roofs, allowing them to be above interference created by close buildings and trees. At the same time, it frees up yard space, eliminates some zoning problems and increases security from theft and vandalism. The SHRM will adjust from a flat roof to any pitched roof up to 12''/12''. And installation is easy because there's no need for concrete or burying cable. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Constructed of heavy angle material
- Easy one-step installation
- Model: SHRM
- UPS shippable
- Mounting pipe and installation hardware are optional


# Residential Mounts

# THE DBS TOWER MOUNT

The DBS Tower Mount is perfect for today's new generation of reception dishes. Made for 25G towers, it's one of the latest additions to the complete line of ROHN antenna support products. Features include:

- Goes together quickly
- Minimum of bolted connections
- Angle steel cross members connect directly to the tower legs with easy to use U-bolts
- Available in Hot Dip Galvanized or pre-galvanized finish
- UPS shippable
- Disassembled, the lightweight mount stores in very small spaces with angle members nested
- Supports almost all major DBS antenna brands



# THE GABLE END MOUNT

ROHN's new Gable End Mount is now even more versatile. It's designed to provide excellent support for off-air or wireless cable antennas, utilizing mast clamps capable of supporting up to 1 1/2" masts (optional mast sizes are available from ROHN). The GEM is easily installed on the gable end of a house with no roof penetration required.



# GABLE END MOUNT FEATURES:

- Galvanized Finish
- Constructed with a bottom support angle adjustable from 40" 60"
- Versatile enough to install to almost any pitch roof
- Design has four attachment points on the facia board
- Mast brackets designed for 4" clearance from the facia
- Packaged in one box for convenience
- GEM (part number: GEM4060) Contains: 1 VWM4 (two brackets), 2 adjustable angles, 1 hardware package, lag screws

## THE GABLE POLE BRACKET

The ROHN Gable Pole Bracket is another inexpensive solution to supporting an elevated satellite antenna. It can be installed using any ROHN HMK, hardware mounting kit. Additional features include:

- Hot Dip Galvanized after fabrication
- Will support most TVRO, PCS, Cellular and Microwave antennas
- Constructed of high strength steel
- Adaptable to all gable ends
- UPS Shippable 17 lb.
- Easy to install/Approx. 4' long
- Holds up to 5" standard pipe
- Model: GPB4





# HEAVY DUTY ALL STEEL Tri-Mast

ROHN's Trimast is ideal for conventional UHF-VHF or wireless cable antennas. Available in overall heights of 5' (part no. TM60) and 10' (part no. TM120), ROHN Trimasts can be installed to roof slope or peak.

- "Socket-lock" clamping device for fast and secure installation
- Features bolt-on removable swivel feet
- Includes pitch pads and lag screws
- Galvanized inside and out for lasting, durable finish
- Double base swivel feet help prevent twisting of the mast
- Conforms to most any roof slope



# TRIPOD ROOF TOWERS

ROHN Tripod Roof Towers feature universal mast clamp and support bracket. They arecompact folding for efficient storage and easy to install. Additional features include:

- Most TRT Snap-outs fold tightly for convenient storage
- Universal mast clamp capable of mounting up to 1 3/4" diameter mast
- Socket lock to hold the tightening bolt in place without turning
- Bolt-on swivel feet adjust to most any pitch roof
- Made of 1 1/4" tubular legs
- Installation is simple and fast by using lag screws in the base feet securely anchoring the tower for long, trouble free service
- Lower mast support bracket
- Galvanized for long lasting corrosion protection
- Prevailing torque lock-nut is used on bolt-on feet
- Swing-Away mast support provides for quick and easy orientation before locking antenna in position
- Support has 3 set screws for clamping mast



## QUADPOD ROOF MOUNTS

With ROHN Quadpod Roof Mounts, the mast pipe stays vertical whether it's installed on the sloped, peak, or flat portion of a roof. The extra leg pivots in the collar to allow for upright installation on the sloped part of a roof. The additional support of the leg also adds strength to the installation. ROHN Quadpods are ideal for wireless cable or off air channel antennas. Features include:

- Bolt-on swivel feet
- Folds down for convenient shipping and storage
- Pitch pads and lag screws included
- Galvanized and durable



## TELESCOPING MASTS

ROHN Telescoping Masts are designed for use as guyed or bracketed installations. All ROHN Telescoping Masts are galvanized and come assembled with hardware. The unique ROHN Rolled Edge Guy Rings and Clamps are already installed and erection is simply attaching guys or brackets, extending the sections, inserting the locking cotter pins, rotating the tubes to a locked position and tightening the clamps.

The unique ROHN design features interior tube flanging combined with a double crimped exterior tube to produce a stronger and more stable joint than most common masts. Disassembly is possible by pulling each section out through the bottom. Each section also extends deeper into the lower tubes than most designs, adding still further to the stability of the mast. Additional features include:

- 1 1/4" top section can accept many popular wireless cable, off air and other small antennas
- Exclusive ROHN Rolled Edge Guy Ring rotates to any direction on the mast and with five guy holes allows guying in nearly any direction
- Masts can be handled by one person
- Bracketed masts are ideal for limited space sites
- Slim design makes the ROHN mast unobtrusive in most installations



# THE SNAKE MOUNT®

The Snake Mount is designed to adapt. It will work as a universal wall mount, a pitched roof mount, or a peak roof mount for wireless cable, DBS and UHF/UVF antennas. The snake mount comes in two sizes, small and large. The Small Snake Mount (part number: SM125) has a 1  $^{1}/^{4''}$  O.D. mast capable of supporting an antenna of 2 square feet projected area or less. The Large Snake Mount (part number: SM238) has a 2  $^{3}/^{8''}$  O.D. mast capable of supporting up to a 1 meter antenna.





# Additional Features of the ROHN Snake Mount®:

- Available in 11.4 h O.D. tubing or 23.8 h tubing (2 1/4" compatible)
- Universal mount for roof or wall installation
- Conforms to any stud spacing requirements
- Galvanized for ultimate rust protection
- Includes lag screws
- Low cost, lightweight, and UPS shippable
- Sleek, modern design
- Patented design







# The Universal One-Legged Mount

The Universal One-Legged Mount may be the one and only mount that can be installed on any part of any building. This mount is designed for virtually all types of antennas - home, TV, MMDS, DBS and more (part number: 1LG). An optional chimney mounting kit will allow the One-Legged Mount to be installed on masonry chimneys (part number: 1LGCM). The One-Legged Mount can solve any mounting need.

### Features include:

- A 1 1/4" O.D. mounting pipe
- Galvanized for ultimate rust protection
- Includes lag screws
- Optional chimney mounting kit available
- Low cost, low profile, lightweight, and UPS shippable
- Can be installed on any roof, wall or gable end



### WALL MOUNTS

ROHN Wall Mounts for masonry, wood, metal and most other walls are designed to provide versatility. With six lengths, two widths and the ability to support up to a  $2^{3}/4''$  O.D. mast, these mounts can be the perfect answer for nearly any setting. The mounts can be installed quickly and with minimum effort using up to 5/16'' lag bolts on nearly any surface.\*

All mounts are galvanized for durability, and constructed of lightweight, high strength ribbed flat stock steel. Masts are held in place with a unique "Anti-Twist" locking clamp to help ensure steady reception.

Additional Features include:

- · Will extend beyond most residential roof overhangs
- Available in 4", 8", 12", 18", 24", and 30" stand-offs
- Available as single or double brackets
- UPS shippable

Upper brackets consist of horizontal members only. Lower brackets consist of horizontal members and one angled member for vertical support.

\* Lag screws or attachment bolts must be ordered separately.







# STEEL TUBING

ROHN Steel Tubing comes in a variety of end types, finishes, gauges and lengths. So whatever your needs, we have the steel tubing to fit every job.

### END TYPES

**Swaged** - ROHN swaged tubing with locking joint is available in two finishes and four gauges. When tubing is swaged, the metal is compressed and made thicker so the joint is stronger than the original material. In fact, so strong that 18 ga. swaged tubing has the strength of most competitive 16 ga. tubing. Swaging also eliminates the "joint bulge" common with expanded tubing.

**Expanded** - A tube with an expanded end along with a tube with a plain end allows the tubes to be stacked.

Plain End - Tubes with a plain end cannot be stacked if they are used directly in a tripod, wall mount, etc.



## FINISHES

**Hot Dip Galvanized** - This 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. No seams, holes or edges are coated.

**Pre-Galvanized** - This 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 at that point. It does, however, have a slightly uncoated seam on the inside and ends.

### GAUGES

ROHN offers steel tubing in 16, 18, and 20 gauges.

### LENGTHS

Steel tubing lengths are available from 2  $\frac{1}{2}$ " to 10'.



Galvanized



Pre-Galvanized

# Blank



# **TELESCOPING MASTS**

For Use As Guyed or Bracketed Installations



### <u>Details</u>



#### Lower Joints



Part Number	Bottom Section	Top Section	Mid Sections	Bottom Section O.D.	Top Section O.D.	Weight
H20	18 ga.	16 ga.	18 ga.	1-1/2″	1-1/4″	17
H30	18 ga.	16 ga.	18 ga.	1-3/4″	1-1/4″	26
H40	18 ga.	16 ga.	18 ga.	2″	1-1/4″	35
H50	18 ga.	16 ga.	18 ga.	2-1/4″	1-1/4″	46
H70	16 ga.	16 ga.	18 ga.	2-3/4″	1-1/4″	74
E20	20 ga.	18 ga.	20 ga.	1-1/2″	1-1/4″	14
E30	20 ga.	18 ga.	20 ga.	1-3/4″	1-1/4″	22
E40	20 ga.	18 ga.	20 ga.	2″	1-1/4″	30
E50	18 ga.	18 ga.	20 ga.	2-1/4"	1-1/4″	39

**Specifications** 

Last two digits in the part number references the total length of all tubing in the mast. Due to overlap in joints actual height above base will be less.

Masts have all hardware except base.

All installations must be bracketed or guyed. Brackets, guys and base are not included and should be ordered separately as needed for each type of installation.

Extend each section carefully, taking extra caution to prevent sections from pulling apart.

Do not extend mast horizontally and then rotate up from hinged base.

Sections can be disassembled through the lower end of the mast.

Telescoping masts are not recommended for commercial, ham, CB or beam antennas. Refer to ROHN Price List for current prices.

See ROHN Safety Brochure 93-2754C for safety information. This brochure is available free from ROHN.



# THE GTMBL BASE PLATE For Mast Installations

The GTMBL Base Plate features:

- More surface area to help prevent sinking
- A longer stake for a more stable installation (especially in areas with poor soils)
- Two locations for mast placement including one that hugs the wall
- Long lasting galvanized rust prevention

ROHN is now manufacturing a telescoping mast base plate called the GTMBL Base Plate. The GTMBL Base Plate is a full 10 inches square and features two locations for the stake and telescoping mast. The first location is the center and the second location is two inches from one side for installations in which the mast needs to be close to the wall. The drive stake is a full 18 inches in length.



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Part Number	Description
GTMBL	Base Plate
GTMBLX	Base Plate Individually Boxed





\* "X" in part number designates item is skin packed

WPSC = Weight Per Standard Carton SC = Standard Carton (Master Carton)







Thimble         Prevents guy wire from fraying and loosening.         Part No. Description       WPSC SC 1/4TH For all sizes wire 4 lbs. 100 up to 1/4"	Galvanized Guy Wire         Heavy galvanized steel guy wire.         Rust proof. Non-tangling 20 50'         interconnected coils. Packaged         1000' per box.         Part No. Description       WPSC SC         618 é strand, 18 gauge       32 lbs. 1000 fr.         620 é strand, 20 gauge       19 lbs. 1000 fr.
<ul> <li>1/4" Turnbuckle</li> <li>Turnbuckle, 1-1/4" x 4" forged eye to eye. Ideal for guyed telescoping masts and tubing.</li> <li>Part No. Description WPSC SC 1/4TBE&amp;E 1/4" x 4" 23 lbs. 100 Turnbuckle</li> </ul>	Clear Coated Guy Wire Galvanized wire in a clear vinyl coating. Non-tangling 20 50' inter- connected coils. Packaged 1000' per box. Part No. Description WPSC SC 1/BHSCC 6 strand, 20 gauge 29 lbs. 1000 ft.
Screw Anchor Hot dip galvanized screw anchor ideal for guyed telescoping masts and tubing. Part No. Description GAS430 30° long, 1/2° dia. rod 4° dia. helix, 3lbs. each. Only bulk available	Ground Wire Uncoated aluminum ground wire grounds mast from lightning and electrical disturbance. Part No. Description WPSC SC AGW8 No. 8 solid wire 16 lbs. 1000 ft.



### <u>1...2...3...4...5...6...7...8...9...10</u> <u>SECONDS!</u> "There is no quicker, more cost effective, and easier way to terminate guy wire."





### ROHN Gripple are available for the following guy wire:

• 620, 618, and 1/8HSCC — for guyed telescoping masts and tubing

• 3/16EHS and 1/4EHS — 3/16" and 1/4" guy wire

The Gripple replaces the need for a turnbuckle and cable clamp. (It is not designed to suspend or lift persons).

Properly installed Gripple Rope Gripps provide approximately 85% of the nominal breaking strength of the steel cable to which they are applied. To determine the actual holding strength of the Gripple, a pull test must be made. This will determine if the Gripple is suitable for your application. Use appropriate safety factor when calculating working load limit. Gripple Rope Gripps are not to be used in a load lifting capacity.

Part #	ROHN Guy Wire	Bag Quantity
61820GRPL	620 618 1/8HSCC	10
3/16Gripple	3/16EHS	8
1/4Gripple	1/4EHS	8

Apply up to 600 lb. tension using the long-handled Grippler tool. Part # Grippler







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			X			DWG NO
RZ	R +	2 FH23 MAST MOUN	BRACKET 10-9	/16 X I X 10GA	PG	C79145
	/ 5/16 DIA HOLE	Z I HZB SADDLE CL	MP 4 X 1-7/8 V-B	Ψ	2	NO DWG
		4         240005         NUL 1/4         H           1         220352PK4PR         SCREW         1/4	X 1-1/2 AB SM	S	5	
	() (v)	4 Z50029 LDCK WASH	R 5/16 INT		ZP	NO DWG
:		4 240014 NUT 5/16 1	A 3/4 CARR		5	
	4	2 FH65 PANEL 3 X	126A X 35-7/8		Ы	C94002
	PART NO.	30.0000°				
	9 <sup>10</sup>	1 FORMSIZZESCHILLIERATUR	ORMATION SHEE	T		
		1 720004 6 X 9 POL 16 720006 9 X 13 POL	Y BAG			
		R3	I P/N GEM4060			
		I   HWGEM4060 HDWE PACK	GE FOR GEM406	GEM4060 D	9d	C940022 C940022
	BEND LINE	GEM4060 ADJUSTABLE	MAST SUPPORT		ЪG	C940022
	TTP 12 PLACES					
	-0					
R2 352	358 R3		R6 atr 2 w	AS 3 FOR FH28 B	-12-98 AV	0
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			R2 CHANGED DIM	& ADDED NOTES 52, 710175 WAS 710172	5 76-92 24-	202
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Mounts Commercial Residential









# HEAVY DUTY ALL STEEL TRI-MOUNTS

All The Features Needed For Any Type Of TV Antenna Installation

- Spiral double headed nails provided for secure attachment and easy disconnect
- Pitch pads provided to seal base
- Pre-galvanized to resist corrosion
- Tri-Mounts are notched at the top for easy installation and to prevent extension mast from twisting
- Outriggers are easily adapted to any roof pitch

### **SPECIFICATIONS**

Both mounts have Standard Packages of 5 per banded bundle and Master Packages of 120.



TRM 36 has a weight of 15 lbs. per package.



TRM 60 has a weight of 20 lbs. per package.



# TRIPOD ROOF TOWERS

TRT36-Snap-out design

**TRT60**-4' base spread to accommodate 24" or 16" rafter spacing

**TRT122**-Bolt on braces, ladder face on one side, bolt on foot for hinge-type installation

### SPECIFICATIONS

Part Number	Wt.	Ht.	Packaged
TRT30	6#	2′6″	Bulk
TRT36	7#	3′	Bulk
TRT60	10#	5′	Bulk
TRT122	29#	10′	Cardboard Box
TRT Bag (optional)	1/2#	Bag conto &	ains: 6 lag screws foot sealers



Do not install towers or masts near power lines. All towers or masts should be installed out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

# All towers and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified persons and remarked with hazard and warning labels at least twice a year to insure safety and proper performance.

# All antenna installations must be grounded per local or national codes.

The mixing of so-called interchangeable copies of Rohn towers with Rohn towers 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 to conform to the same quality standards. Mixing of non-Rohn items may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.



Part Number	Description	Finish	End Type	Packaging
160505PHS	1 1/4" x 5' - 16 gauge	Pre-Galvanized	Swaged	Bundled
161005GHS	1 1/4″ x 10′ - 16 gauge	Hot Dip Galvanized	Swaged	Bundled
161005PHS	1 1/4″ x 10′ - 16 gauge	Pre-Galvanized	Swaged	Bundled
161005PHSB	1 1/4" x 10' - 16 gauge	Pre-Galvanized	Swaged	Boxed
161006PLX	1 1/2" x 10' - 16 gauge	Pre-Galvanized	Expanded	Bundled
M200	2"O.D. x 10' - 16 gauge	Pre-Galvanized	Plain End	Bundled
M200H	2"O.D. x 10' - 1/8" wall	Hot Dip Galvanized	Plain End	Bundled
M4	1 1/4″ x 4′ - 16 gauge	Pre-Galvanized	Plain End	Bundled
M8	1 1/4" x 8' - 16 gauge	Pre-Galvanized	Plain End	Bundled
180505PHS	1 1/4" x 5' - 18 gauge	Pre-Galvanized	Swaged	Bundled
180505PHSB	1 1/4″ x 5′ - 18 gauge	Pre-Galvanized	Swaged	Boxed
181005PHS	1 1/4" x 10' - 18 gauge	Pre-Galvanized	Swaged	Bundled
181005PHSB	1 1/4" x 10' - 18 gauge	Pre-Galvanized	Swaged	Boxed
200505EHS	1 1/4″ x 5′ - 20 gauge	Gold Enameled	Swaged	Bundled
200505PHS	1 1/4″ x 5′ - 20 gauge	Pre-Galvanized	Swaged	Bundled
201005PHS	1 1/4" x 10' - 20 gauge	Pre-Galvanized	Swaged	Bundled
202505PHS	1 1/4" x 2 1/2' - 20 gauge	Pre-Galvanized	Swaged	Bundled

# ROHN® STEEL TUBING

5' and 10' tubing are banded 10 pcs. per bundle. 2 1/2' tubing is banded 20 pcs. per bundle or can be bulk packed per customer specifications.

5' and 10' boxed tubing are 10 pcs. per box.

### For Your Protection

Do not install or dismantle steel tubing near power lines. All steel tubing should be installed or dismantled out of falling distance of power lines since every electrical and telephone wire should be considered dangerous.

All antenna-type installations should be installed (or dismantled) by experienced and trained personnel and guyed or attached every 10'. The maximum height for average TV receiving antennas is 30' above ground (or 10' above roof). Large ham, CB, or TV antennas are not recommended for use with 1 1/4"-10' tubing sections.

All antenna-type installations should be thoroughly inspected by qualified personnel and marked with hazard and warning labels to insure safety and proper performance.

All antenna-type installations must be grounded per local or national codes.

For safety and installation information, see ROHN publication Form No. 93-2754C.









Mounts

**Commercial Residential** 









# HEAVY-DUTY, GALVANIZED WALL MOUNTS

WM4	4" clearance, upper and lower bracket supplied, heavy duty (includes lag screws)
VWM4	4" clearance, upper and lower bracket supplied, economy model (includes lag screws)
WM6S*	6" clearance, upper bracket only
WM8S*	8" clearance, upper bracket only
WM8D*	8" clearance, upper and lower bracket supplied
WM12S*	12" clearance, upper bracket only
WM12D*	12" clearance, upper and lower bracket supplied
WM18S*	18" clearance, upper bracket only
WM18D*	18" clearance, upper and lower bracket supplied
WM24S*	24" clearance, upper bracket only
WM24D*	24" clearance, upper and lower bracket supplied
WM30S*	30" clearance, upper bracket only







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# HARDWARE / ACCESSORIES



Products for A Growing World of Technology

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# **BOLTS, NUTS AND WASHERS**

#### Grade 5 Capscrew Assemblies - Hot Dip Galvanized



		Cap	screw	Hex Nut	PalNut	Assembly			
	Description	Part No.	Weight	Part No.	Part No.	Part No.	Weight		
	5/16 x 2-3/8	210003G	5/100	230002	230001	210003GA	7/100		
	3/8 x 1-1/4	210005G	5/100	230005	230007	210005GA	10/100		
	3/8 x 1-1/2	210008G	5/100	230005	230007	210008GA	10/100		
	3/8 x 2	210009G	7/100	230005	230007	210009GA	12/100		
	3/8 x 2-1/2	210011G	8/100	230005	230007	210011GA	13/100		
	3/8 x 2-1/2 (Full Thread)	210176G	8/100	230005	230007	210176GA	13/100		
	318 x 4	210014G	13/100	230005	230007	210014GA	18/100		
	3/8 x 4 (Full Thread)	210013G	18/100	230005	230007	210013GA	18/100		
L	7/16 x 2-1/2	210016G	17/100	230009	230010	210016GA	17/100		
	1/2 x 5	210083G	32/100	230013	230011	210083GA	41/100		
	5/8 x 1-3/4	210146G	22/100	230018	230017	210146GA	35/100		
	5/8 x 2	210140G	25/100	230018	230017	210140GA	38/100		
	5/8 x 3-1/4	210036G	38/100	230018	230017	210036GA	51/100		
	5/8 x 3-3/4	210038G	40/100	230018	230017	210038GA	53/100		
	3/4 x 4-1/2	210091G	71/100	230020	230021	210091GA	91/100		
	7/8 x 3	210062G	71/100	230026	230026	210062GA	103/100		

#### Grade 5 Capscrew Assemblies - Zinc Plated



#### Rigid Tube Bolt Assemblies, Hot Dip Galvanized



Assembly includes bolt, lock nut and washert

	Boli	t	Lock Nut	Washer	Asse	mbly
Description	Part No.	Weight	Part No.	Part No.	Part No.	Weight
<sup>1</sup> J-Joint (5 /16" - 18 THD)	J071	8/100	230003	250008G	J07	89/100
<sup>2</sup> J-Brace (5/16" - 18 THD)	210003G	5/100.	230003	250008G	308	336/100
<sup>3</sup> C-Joint (1/2"-13THD)	C071	30/100	230012	250011G	C07	660/100
C-Joint (1/2"-13THD)	C071	30/100	230012	250011G	C07L	540/100
	(9 req'd)		(15req'd)	(9 req'd)		
( Long)(1/2"- 13THD)	CO71L					
_	(6 req'd)					
<sup>4</sup> C-Brace (5/16" - 18 THD)	C081		230003	250008G	C08	420/100
<sup>₅</sup> D-Joint (5/8" - 11 THD)	D071	61/100	Discont.		N/A	
D-Joint (5/8" - 11 THD)	D071	61/100	Discont.		N/A	
	(9 req'd)					
(Long) (5/8" - 11 THD)	D071L	64/100				
-	(6 req'd)					
<sup>6</sup> D-Brace (5/16" - 18 THD)	D081	230003	250008G		D08	630/100

#### **Notes to Rigid Tube Bolt Assemblies**

1 Assembly includes 9 bolts, lock nuts and washers. 2 Assembly includes 21 bolts, lock nuts and washers. 3 Assembly includes 15 bolts, lock nuts and washers.

4 Assembly includes 30 bolts, lock nuts and washers.

5 Assembly includes 15 bolts, and washers.

6 Assembly includes 30 bolts, lock nuts and washers



#### Structural Bolt Assemblies - Hot Dip Galvanized

Capscrew

5/8 x 2	1/2 x 1-1/2
	1/2 x 1-3/4
	1/2 x 2
	5/8 x 1-1/2
	5/8 x 1-3/4
	5/8 x 2
Assembly includes bolt,	5/8 x 2-1/4
hex nut and pal nut	5/8 x 2-1/2
	5/8 x 3-1/4
	3/4 x 1-3/4
	3/4 x 2
	3/4 x 2-1/4
	3/4 x 2-1/2







Hex Nut

PalNut

Assembly

5/8 x12

#### **Base Bolt - Hot Dip Galvanized**

-		
Description	Part Number	Weight
1/2" x 12" + 2" (Hook)	1/2x12BB	1/2 ea.
5/8" x 12" + 3" (Hook)	5/8X12BB	1 ea.
3/4" x 16" + 3" (Hook)	3/4X16BB	1-1/2 ea.





#### Step Bolt - Hot Dip Galvanized

Description	Part Number	Weight
5/8 x 6-1/2 (2-1/2" thread length	210042G	84/100
Same as above - includes 2 hex nuts	5/8STEP	108/100



#### J Bolt - Hot Dip Galvanized

Description					
Α	В	C	D	Part No.	Weight
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	6-13/16	2-1/2	J107A	35/100
3/8	3/4	2	1-1/2	J167A	10/100



#### **Round Bend U-Bolt Assemblies - Hot Dip Galvanized**

How to measure U-Bolts

- A Diameter of thread
- B Width of opening
- C Depth of opening D Length of threaded area

Assembly includes bolt, hex nuts and pal nuts



Parts can be ordered separately. Prices and weights for Hex Nuts and Pal Nuts are located elsewhere in this catalog.

> Not Illustrated Zinc Plated U-bolt Assembly includes bolt and hex nuts



Assembly includes bolt, hex nuts and pal nuts



		Descr	iption		U	l-Bolt	HexNut	PalNut	Ass	embly
	A	B	C	D	PartNo.	Weight	Part No.	Part No.	Part No.	Weight
	5/16	1-1/2	2-5/8	1-1/4	JR51	11/100	230002	230001	JR51A	15/100
	5/16	1-11/16	2-1/4	1	JR54	11/100.	230002	230001	JR54A	15/100
	5/16	1-1/2	2	1-1/4	JR55	10/100	230002	230001	JR55A	14/100
	3/8	2-1/2	4	2	JR60	25/100	230005	230007	JR60A	35/100
	3/8	2-1/2	3-1/2	1-1/2	JR61	23/100	230005	230007	JR61A	33/100
	3/8	4	6	2-1/4	JR62	32/100	230005	230007	JP62A	42/100
	3/8	4-1/2	6-1/2	2-1/4	JR63	42/100	230005	230007	JR63A	52/100
	3/8	3-1/2	4-5/8	1-5/8	JR64	31/100	230005	230007	JR64A	41/100
	3/8	1-1/2	3	1-3/4	JR65	19/100	230005	230007	JR65A	29/100
	3/8	1-1/4	2-3/4	1-5/8	JR66	21/100	230005	230007	JR66A	31/100
	3/8	1	2-1/4	1-1/4	JR67	13/100	230005	230007	JR67A	23/100
	3/8	2-1/8	3	1-1/4	JR68	23/100	230005	230007	JR68A	31/100
	3/8	13/16	1-5/8	7/8	JR69	11/100	230005	230007	JR69A	21/100
	1/2	3/4	3-1/2	2-1/2	JR81	42/100	230013	230011	JR81A	60/100
	1/2	2-1/4	4-1/2	2-1/4	JR82	53/100	230013	230011	JR82A	71/100
	1/2	2-1/2	4-1/2	2-1/2	JR83	53/100	230013	230011	JR83A	71/100
	1/2	3	5-5/8	3	JR84	66/100	230013	230011	JR84A	84/100
	1/2	3	4-1/8	1-1/2	JR84S	55/100	230013	230011	JR84SA	73/100
	1/2	4-1/2	6	2-1/4	JR85	73/100	230013	230011	JR85A	91/100
	1/2	5-5/8	8	3-1/4	JR86	96/100	230013	230011	JR86A	114/100
•	1/2	6-3/4	9	3-1/4	JR87	109/100	230013	230011	JR87A	127/100
	1/2	3-1/2	6	3	JR88	70/100	230013	230011	JR88A	88/100
	1/2	4	6-1/2	3-1/2	JR89	10080/	230013	230011	JR89A	98/100
	1/2	2	3-3/4	1-3/4	JR810	45/100	230013	230011	JR810A	63/100
	1/2	8-3/4	11-1/8	2-1/2	JR90S	170/100	230013	230011	JR90SA	188/100
	1/2	10-7/8	13	2-1/2	JR110	180/100	230013	230011	JR110A	198/100
	1/2	12-7/8	15	2-1/2	JR120	225/100	230013	230011	JR120A	243/100
	3/4	3	5-3/4	3	JR121	159/100	230020	230021	JR121A	199/100
	3/4	3-1/2	6-1/4	2-3/4	JR122	223/100	230020	230021	JR122A	263/100
	3/4	4	6-3/4	2-1/2	JR123	244/100	230020	230021	JR123A	284/100
	3/4	4-1/2	7-1/4	2-1/2	JR124	240/100	230020	230021	JR124A	280/100
	3/4	5-5/8	8-5/16	2-1/2	JR125	278/100	230020	230021	JR125A	318/100
	3/4	6-3/4	10	3-1/2	JR126ST	350/100	230020	230021	JR126STA	390/100
	3/4	8-3/4	11-3/8	2-1/2	JR128	384/100	230020	230021	JR128A	424/100
	3/4	10-7/8	13-3/8	2-5/8	JR1210	477/100	230020	230021	JR1210A	517/100
	3/4	12-3/4	15	2-1/2	Jr1212	551/100	230020	23021	JR1212A	591/100

#### **Round Bend U-Bolt Assemblies - Zinc Plated**

	Descript	tion			
Α	B	C	D	Part Number	Weight
1/4-20	1-1/4	2 -1/4	1-3/8	JR45A	12/100

#### Square Bend U-Bolt Assemblies - Hot Dip Galvanized

Description					
Α	B	C	D	Part Number	Weight
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
3/4	6-1/4	8-1/2	2-1/2	JR12685SQA	277/100
1/2	6-1/4	7-13/16	1-3/4	JR815A	120/100

#### **Double Bend U-Bolt Assemblies - Hot Dip Galvanized**

Description	Part Number	Weight
5/16" (-18THD/ ( for 1-1/4" to 1-1/4 tubing)	TB5125BA	54/100
Pal Nut, 5/16" (-18THD) (Optional)	230001	1/100
1/2" (18THD)/ for 2" to 2" pipe	TB8250	1.7
Backing Plate for TB8250	BP8250	1





# Nuts, Heavy Hex - Hot Dip Galvanized

Description	Part Number	Weight
3/8"-16	230005	4/100
1/2"-13	230013	8/100
5/8-11	230018	12/100
3/4" -10	230020	19/100
7/8"-9	230026	29/100
1 " -8	230030	41/100

# Nuts, Finished Hex - Zinc Plated

Description	Part Number	Weight
1/4-20	240005	1/100
1/4" - 28	240009	1/100
5/16"-18	240014	1/100
5/16"-24	240016	1/100
3/8"- 16	240021 2/	00

# Nuts, Finished Hex - Hot Dip Galvanized

•		
Part Number	Weight	
230002	84/100	
230009	3/100	
	Part Number 230002 230009	



## Locking Pal Nuts - Hot Dip Galvanized

Description	Part Number	Weight
5/16" - 18	230001	1/100
3/8" -16	230007	1/100
1/2" - 13	230011	1/100
5/8"-11	230017	1/100
3/4" -10	230021	2/100
7/8"-9	230025	3/100
1"-8	230029	5/100

Palnuts thread down bolt, tightening against the nut to prevent the nut from loosening. Open side of Palnut faces out.



### Nuts, Anco Lock - Hot Dip Galvanized

Description	Part Number	Weight
3/8" - 16	230008	2/100
1/2" 13	230015	7/100
5/8"-11	230019	12/100
3/4"-10	230022	19/100
7/8"-9	230027	30/100
1 " -8	230028	43/100



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# Flat Washers, SAE - Hot Dip Galvanized

Description	Part Number	Weight
5/16"	250005G	1/100
3/8"	250008G	1/100
9/16"	250011G	2/100
5/8"	250012G	3/100
3/4"	250017G	5/100
7/8"	250032G	6/100
ן"	250018G	8/100

#### **Beveled Washers - Hot Dip Galvanized**



Description	Part Number	Weight
3/8"	250040G	7/100
1/2"	250010G	7/100
5/8"	250013G	15/100
3/4"	250016G	6/100
7/8"	250062G	14/100
1"	250077G	31/100

#### **Ringfills - Hot Dip Galvanized**



Description				
Thickness	ID	OD	Part Number	Weight
1/4	11/16	2	KH390	.2
5/16	11/16	2	KH3423	.26
3/8	9/16	1-1/2	KH386	.16
3/8	11/16	1-1/2	KH391	.14
7/16	13/16	2	Kh3424	.34



# Thimbles - Hot Dip Galvanized



Description	Part Number	Weight
1/4" Standard Wire Rope Thimble, Open		
(for 1/8" to 3/16" wire with cable clamps)	1/4TH	4/100
5/16" Heavy Duty Wire Rope Thimble Open		
(for 3/16" wire with Big-Grips)	5/16THH	12/100
3/8" Standard Wire Rope Thimble Open		
(for 1/4" wire with cable clamps)	3/8TH	6/100
3/8" Heavy Duty Wire Rope ThimbleOpen		
(for 1/4" wire with Big-Grips or		
5/16" wire with cable clamps)	3/8THH	25/100
7/16" Heavy Duty Wire Rope Thimble Open		
(for 5/16" wire with Big-Grips)	7/16THH	30/100
1/2" Heavy DutyWire Rope Thimble Open		
(for 3/8" or 7/16" wire with cable clamps or		
3/8" wire with Big-Grips)	1/2THH	51/100
9/16" Heavy Duty Wire Rope ThimbleOpen		
(for 7/16" wire with Big-Grips)	9/16THH	51/100
5/8" Heavy Duty Wire Rope Thimble Open		
(for 1/2" or 9/16" wire with cable clamps		
or Big-Grips)	5/8THH	75/100
3/4" Heavy Duty Wire Rope Thimble Open		
(for 5/8" wire with cable clamps or Big Grips)	3/4THH	147/100
7/8" Heavy Duty Wire Rope Thimble Open		
(for 3/4" wire with Big-Grips)	7/8THH	175/100
1" Heavy Duty Wire Rope Thimble Open		
(for 7/8" wire with Big Grips)	1THH	275/100

# Cable Clamps - Hot Dip Galvanized

	Description	Part Number	Weight
1/8"	Cable Clamp, Malleable (3 per turnback)	1/8CCM	3/100
3/16"	Cable Clamp, Malleable (3 per turnback)	3/16CCM	8/100
1/4"	Cable Clamp, Malleable (3 per turnback)	1/4CCM	12/100
3/16"	Cable Clamp, Forged (3 per turnback)	3/16CCF	10/100
1/4"	Cable Clamp, Forged (3 per turnback)	1/4CCF	20/100
5/16"	Cable Clamp, Forged (3 per turnback)	5/16CCF	30/100
3/8"	Cable Clamp, Forged (3 per turnback)	3/8CCF	47/100
7/16"	Cable Clamp, Forged (4 per turnback)	7/16CCF	76/100
1/2"	Cable Clamp, Forged (4 per turnback)	1/2CCF	80/100
9/16"	Cable Clamp, Forged (4 per turnback)	9/16CCF	104/100
5/8"	Cable Clamp, Forged (4 per turnback)	5/8CCF	106/100
1-1/4"	Cable Clamp, Forged (6 per turnback)	11/4CCF	430/100
1-3/8"	Cable Clamp, Forged (7 per turnback)	13/8CCF	460/100

#### Fist Grips - Hot Dip Galvanized

	Description	Part Number	Weight
1/2"	Fist Grip (4 per turnback)	1/2FG	70/100
5/8"	Fist Grip (4 per turnback)	5/8FG	100/100
3/4"	Fist Grip (5 per turnback)	3/4FG	175/100
7/8"	Fist Grip (5 per turnback)	7/8FISTGR	225/100



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Forged Cable Clamp

Malleable Cable Clamp





#### Anchor Shackles, Round Pin

Description	Part Number	Weight
3/8" (1 ton safe working load)	3/85	25/100
1/2" (2 ton safe working load)	1/2\$	70/100
5/8" (3-1/4 ton safe working load)	5/8S	150/100
3/4" (4-3/4 ton safe working load)	3/4S	232/100
7/8" (6-1/2 ton safe working load)	7/8S	340/100
1" (8-1/2 ton safe working load)	15	500/100
1-1/8" (9-1/2 ton safe working load)	11/85	700/100
1-1/4" (12 ton safe working load)	11/45	975/100

### Turnbuckles - Hot Dip Galvanized

Description	Part Number	Weight
3/8"x6" Eye& Eye Tumbuckle (6,000 lbs. ultimate strength)	3/8TBE&E	1
3/8"x6" Eye & Jaw Tumbuckle (6,000 lbs. ultimate strength)	3/8TBE&J	1
1/2"x12" Eye & Eye Turnbuckle (11,000 lbs. ultimate srength)	1/2TBE&E	2
1/2"x12" Eye& Jaw Turnbuckle (11,000 lbs. ultimate strength)	1/2TBE&J	2
5/8"x12" Eye & Jaw Turnbuokle (17,500 lbs. ultimate strength)	5/8TBE&J	4
3/4"x12" Eye & Jaw Turnbuckle (26,000 lbs. ultimate strength)	3/4TBE&J	5
7/8"x12" Eye & Jaw Turnbuckle (36,000 lbs. ultimate strength)	7/8TBE&J	8
1"x12" Eye & Jaw Turnbuckle (50,000 lbs. ultimate strength)	1TBE&J	11
1-1/4"x18" Eye& Jaw Turnbuckle (76,000 lbs. ultimate strength)	11/4x18TB	24
1-1/2"x18" Eye& Jaw Turnbuckle (107,000 lbs. ultimate strength)	11/2x18TB	35
1-3/4"x18" Eye& Jaw Turnbuckle (140,000 lbs. ultimate strength)	13/4x18TB	54

#### Eyebolt - Hot Dip Galvanized

Description	Part Number	Weight
5/8" x 18" Eye Bolt with nuts	260004P	2

#### Guy Strain Insulators, Porcelain

Description	Part Number	Weight
Porcelain Guy Strain Insulator (10,000 lbs. ultimate strength)	502	1
Porcelain Guy Strain Insulator (12,000 lbs. ultimate strength)	504	1-1/2
Porcelain Guy Strain Insulator (20,000 lbs. ultimate strength)	506	3
Porcelain Guy Strain Insulator (33,000 lbs. ultimate strength)	559	5
Porcelain Guy Strain Insulator (42,000 lbs. ultimate strength)	24369	4-1/2
(special order only)		
Porcelain Guy Strain Insulator (57,000 lbs. ultimate strength)	24213	7
(special order only)		

To arrive at safe working load for insulators appropriate safety factor must be applied.



502 504 506

556 24369 24213

#### Insulators, 24 Feet Long

Description	Part Number	Weight
24' Fiberglass Insulator(15,000 lbs. ultimate strength)	500288	20
For use with 3/16" to 3/8" EHS guy wire		
24' Fiberglass Insulator(30,000 lbs. ultimate strength)	703288	34
For use with 3/16" to 1/2" EHS guywire		
24' Fiberglass Insulator(36,000 lbs. ultimate strength)	360288	40
For use with 3/16" to 9/16" EHS guy wire		
24' Fiberglass Insulator(80,000 lbs. ultimate strength)	800288	60
For use with 9/16" through 7/8" EHS guy wire		

To arrive at safe working load for insulators appropriate safety factor must be applied.



#### Big Grips - Hot Dip Galvanized



	Description	Part Number	Weight
3/16"	Galvanized Big-Grip with end sleeve	BG2142	33/100
1/4"	Galvanized Big-Grip with end sleeve	BG2144	50/100
5/16"	Galvanized Big-Grip with end sleeve	BG2146	82/100
3/8"	Galvanized Big-Grip with end sleeve	BG2147	112/100
7/16"	Galvanized Big-Grip with end sleeve	BG2148	188/100
1/2"	Galvanized Big-Grip with end sleeve	BG2115	315/100
9/16"	Galvanized Big-Grip with end sleeve	BG2116	480/100
5/8"	Galvanized Big-Grip with end sleeve	BG2111	650/100
3/4"	Galvanized Big-Grip with end sleeve	BG2112	1080/100
7/8"	Galvanized Big-Grip with end sleeve	BGMS7023	1125/100
1"	Galvanized Big-Grip with end sleeve for use with	BGMS7047	2540/100
	1" EHS and wth 1" Bridgestrand when capacity does not		
	exceed 104.5 KIPS		
1"	Rocket Socket with Ear Clamp for use with 1" Bridgestrand	RK0516	46
	when capacity does not exceed 122KIPS		
	Guy Link, required for Rocket Socket	GL11/4	73/100

End sleeves must be used on all Big-Grips. See Drawing B700607 for procedure to apply end sleeve.

Oversized heavy duty thimbles must be used with all Big-Grips. Thimbles are not required when using Rocket Sockets.

#### Rocket Socket requires Guy Link at guy wire to tower connection.

#### End Sleeves - Hot Dip Galvanized

Description	Part Number	Weight
3/16"	GC65303	3/100
1/4"	GC65136	3/100
5/16"	GC65128	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
ן "	Gc65271	32/100

#### **Guy Wire - Hot Dip Galvanized**



To arrive at safe working load for guy wire appropriate safety factor must be applied.

There is an additional charge for coiling large quantities of individual length guy wire onto wooden spools for shipment. ROHN reserves the right to charge for cutting.





#### **Anchor Rods**

	Equalizer Plate		Dimensions in inches						
Part No.	Туре	L	A	В	C	D	T	(Lbs.)	Allowable Load (Lbs.)*
GAR30	eye	84	1		2	5/8		9	7,330
GAC303	EE	84	2			5/8	3/16	13	7,330
GAC305	EE	84	2			5/8	3/16	14	7,330
GAC345501	EJ	84	2	12	2-1/2	3/4	3/8	25	17,670
GAC565501	EJ	120	2-1/2	12	3	1-1/4	1/2	65	49,060
GAG575501	EJ	168	3	12	4	1-7/16	3/4	125	64,800
GAC585501	EJ	192	4	12	6	1-1/4	1	220	98,100
GAC595501	EJ	240	4	18	6	1-7/16	1	310	129,700
*Allowable load	includes a 33	-1/3% ir	ncrease in	allowab	le stresses				



# Screw Anchor - Hot Dip Galvanized

Description	Part Number	Weight
5/8" x 4' Screw Anchor (2,500 lb. holding power)	GAS604	7

Type EJ equalizer plates are used with eye and jaw turnbuckles.

Type EE equalizer plates are supplied in pairs for eye and eye turnbuckles.

Part number suffixes 3,5, and 55 denote 3, or 5 holes in plates.

Type GAC30 or GAC305 rods are supplied with type EP25343 or EP25345 equalizer plates.



# **GROUNDING**

# Ground Lugs and clamps

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Description	Part Number	Weight		
Galvanized clamp for 5/8" galvanized ground rod	\$58	16/100		
Bronze clamp for 5/8" copper ground rod	340017	18/100		
Bronze clamp for 3/4" copper ground rod	340016	25/100		
Tinned clamp for 3/4" copper ground rod	340016T	25/100		
Hy-Lug, Burndy to #4 wire	340034	3/100		
Hy-Lug with 3/8" bolt & nut, Burndy to #4 wire	340034A	11/100		
Ground lug with 7/16 attachment hole and 1/2" bolt hole	GL4	42/100		
Ground lug with 7/16 attachment hole and 5/8" bolt hole	GI5	45/100		
Ground lug with 7/16 attachment hole and 3/4" bolt hole	GL6	59/100		
Ground lug with 7/16 attachment hole and 7/8" bolt hole	GL7	64/100		
Ground lug with 7/16 attachment hole and 1" bolt hole	GL8	64/100		
Ground lug with 7/16 attachment hole and 1-1/2" bolt hole	GL10	143/100		
Ground Lug, #2 through #4/0 wire	BL250	16/100		
Ground Lug with 1/4" bolt, nut, washer, #2 thru #410 wire	BL250A	20/100		
Ground Lug, #14 through #4 wire	340043T	3/100		
Ground Lug with 1/4" bolt, nut, washer, #14 thru #4 wire	340043A	6/100		
Guy wire ground clamp (for use with 3/16 - 1/2 guy wire)I	340028	14/100		
Guy wire ground clamp (for use with 9/16 - 3/4 guy wire)	340029	38/100		
Guy wire ground clamp (for use with 718 - 1 guy wire)	9842L	76/100		
Round member ground clamp (for 1/2" to 1" O.D.)	340018	30/100		
Round member ground clamp, tinned (for 1/2" to 1" O.D.)	340018T	100/100		
Round member ground clamp, tinned (for 1-1/2" to 2-3/8" O.D.)	340019T	100/100		
Thompson Clamp #423T for 2/0 to 2/0	340079T			





Description	Part Number	Weight
#10 solid copper wire	CW10S	32/MFT
#6 solid copper wire	CW6S	80/MFT
#4 stranded copper wire	CW4ST	129/MFT
#4 solid copper wire	CW4S	127/MFT
#2 solid copper wire	CW2S	201 MFT
#1/0 stranded copper wire	CW1/0ST	326/MFT
#2/0 stranded copper wire	CW2/0ST	411/MFT
#4/0 stranded copper wire	CW4/0ST	653/MFT
2" x .021 copper strap	340039*	168/MFT
3" x .021 copper strap	340040*	251/MFT
4" x .021 copper strap	340041*	335/MFT
8' x 24' copper ground screen	340007*	32

\*Stock levels vary. Allow sufficient time for delivery.

Wire and Strap, Copper

#### Ground rods and Lightning Rods

Description	Part Number	Weight
3/8" x 4' copper clad ground rod with clamp	GR384	160/100
3/8" x 4' galvanized ground rod with clamp	GR384Z	172/100
3/8" x 6' copper clad ground rod with clamp	GR386	235/100
3/8" x 6' galvanized ground rod with clamp	GR386Z	258/100
5/8" x 8' copper clad ground rod	340020	800/100
5/8" x 10' copper clad ground rod	340021	1045/100
3/4" x 10' copper clad ground rod (THD)	340024	1500/100
5/8" x 8' copper clad ground rod, plain end, with ground wire clamp	GR8C	82/100
5/8" x 8' galvanized ground rod with ground wire clamp	GR8G	90/100
3/4" x 10' copper clad ground rod (THD) w/ ground wire clamp	GR10C	133/100
3/4" ground rod coupler	3/4C	80/100
7/8" x 6' solid aluminum lightning rod	LR	6
5/8" x 5' copper clad lightning rod	LRCL	4



# **LIGHTING**

#### Beacons and Lenses



Description	Part Number	Weight
Beacon (red glass)	B1R	77
Upper Beacon Lens, red	AP3557	6
Center Beacon Lens, red	AP3556	14
Lower Beacon Lens, red	AP3555	11
Two lower red beacon lenses - glued	AP3555/5	22
One upper red beacon lens & one center red beacon lens - glued	AP3556/7	20
Clear Glass Silicon Sealant (glue)	550020	3 oz.

# 🙀 Ice Shields and Beacon Mounts



Description	Part Number	Weight
Heavy Duty Ice Shield for beacon. Framework construction with	ISBEACON	43
heavy grating attaches to tower leg above beacon.		
Beacon Leg Mount for sections not listed below	APL1258UM	31
Beacon Leg Mount for 1W or 2W tower section	APL1W2WA	26
Beacon Leg Mount for 3WN tower section	APL3WNA	26
Beacon top mounting plate for 4 inch flange plate	APL4A	14
Beacon top mounting plate for 4.5 inch flange plate	APL4HA	17
Beacon top mounting plate for 5 inch flange plate	APL5A	18
Beacon top mounting plate for 6 inch flange plate	APL6A	20
Beacon top mounting plate for 7 inch flange plate	APL7A	24



# **Obstruction Lights**

-		
Description	Part Number	Weight
Obstruction Light, Single (red)	OB1	4
Obstruction Light, Double (red)	OB2	8
Obstruction Light Red Lens	530230	2

#### Lamps



······ • • • • • • • • • • • • • • • •		
Description	Part Number	Weight
Beacon Lamp (3,000 hour) - 120 volt	B620W	2/24
Obstruction Light Lamp (8,000 hour) - 120 volt	OB116W	12/120
Obstruction Light Lamp (2,000 hour) - 230 volt	OB100W	12/120





JBG

#### **Color Screen**

Description	Part Number	Weight
Color Screen (red)	711130	4

# Gaskets

Description	Part Number	Weight
Set of Beacon Gaskets, consists of:		
2 BGB1, 1 BGMI, 1 BGT1, and BGT2	BGSR	1
JB4 Junction Box Gasket	JBG1	1/4
JB7 Junction Box Gasket	JB7G1	1/4
Obstruction Lens Gaskets	OBG1	1/4



JB7G1

BGSR



#### **Breathers**

Description	Part Number	Weight
Conduit Breather	CB1	1/2

#### **Terminal Blocks**

Description	Part Number	Weight
Terminal Block, 7 position	510003	37/100
Terminal Block, 4 position	510002	21/100
Terminal Block, 2 position	510001	11/100



#### Receptacles

Description	Part Number	Weight
Beacon Lamp Receptacle, pre-focused mogulbase	23X546	1
OB Lamp Receptacle	50714	1/2



Wraplock		
Description	Part Number	Weight
Wraplock 1/2" x 100' stainless steel	WR100	3

Includes metal strapping, connectors and crimping tool

RPCP1 or RPCP2 Photo control

# RPCP1 or RPCP2 Assembly

#### **Photo Control**

Description	Part Number	Weight
Photocontrol with socket, 120 volt, suitable for outdoor use	RPH1P	4
Photocontrol with socket, 230 volt, suitable for outdoor use	RPH2P	4
Photocontrol only, 120 volt, less socket	RPCP1	.19
Photocontrol only, 230 volt, less socket	RPCP2	.19
Socket for RPCPI and RPCP2	RPCPS	.55

RPH1P and RPH2P are complete assemblies, including locknuts, elbow and reducer required to connect to junction box.



#### **Grounding Kits**

See drawings shown below for configurations. Note that towers and guy configuration shown are for general examples only and may not duplicate all possible installations.

Not all towers listed are current models. Models 36 and 48 and D are discontinued.

AGK requires one guy wire ground clamp for each guy wire. These clamps are not included in kit, and must be ordered separately

Description	Part Number	Weight
Base grounding kit consisting of:		
one 5/8" x 8' hot dip galvanized ground rod		
one brass tower attachment lug with hardware		
one brass rod clamp		
ten feet of #4 solid copper wire		
For 80, 90 and C towers	BGK1G	11
For J, 55G and 65G towers	BGK2G	11
For 25G, 26KD and 45G towers	BGK3G	11
For 1/2 inch anchor bolts	BGK4G	11
For 5/8 inch anchor bolts	BGK5G	11
For 3/4 inch anchor bolts	BGK6G	11
For 7/8 inch anchor bolts	BGK7G	12
For 1 inch anchor bolts	BGK8G	12
Anchor wire grounding kit for 3 anchors consisting of:	AGK1G	33
three 5/8" x 8' hot dip galvanized ground rods		
three brass rod clamps		
45 feet of #6 stranded copper wire		
Note: Requires nine aux wire around clamps - not included		











# Blank



# INSTALLATION ACCESSORIES



Products for A Growing World of Technology

# Blank

# Hardware/ Installation Accessories

ETNSBM

ETNSBL

1.2

1.2

Weight

.4



# **MISCELLANEOUS**

#### **ROHN-Loc Harness**

Description	Part Number	Weight
ROHN-LOC belt and safety clamp (Includes lanyard, 3 D-rings,		
and pouch):		
X-Small (waist size 32-40)	RLBELTXS	7.5
Small (waist size 32-40)	RLBELTS	7.5
Medium (waist size 36-44)	RLBELTM	7.5
Large (waist size 40-48)	RLBELTL	7.5
X-large (waist size 46-54)	RLBELTXL	8.0
Belts		
Description	Part Number	Weight
Tool and safety belt, 6 ply nylon:		
20" - see sizing instructions below	ETTSBS	4.75
22" - see sizing instructions below	ETTSBM	4.75
24" - see sizing instructions below	ETTSBL	4.75
To determine correct size measure across back, hip to hip, add 2".		
Safety belt, nylon w/2 D rings & nylon lanyard (no tool capacity):		
Small (not illustrated)	ETNSBS	1.2

### Safety Strap

Medium (not illustrated)

Large (not illustrated)

Description	Part Number	Weight
Safety Strap, nylon filament, neoprene impregnated	ETSTRAP	3



HIDE

#### Bucket

Description	Part Number	Weight
Bucket, 17" high, No. 1 canvas with cycolac top ring (reinforced leather bottom)	ETCBKT	3







# Description Part Number Bolt bag, belt, 10"x 11" water repellent canvas ETBAG

# Hard Hat

**Bolt Bag** 

Description	Part Number	Weight
Hard hat, adjustable	ETHH	1

#### Gloves

Description	Part Number	Weight
Gloves, leather, shirred elastic wrist	ETLG	1





Hardware/ Installation Accessories

#### **Cables and Winches**





Description	Part Number	Weight
3/8" stainless steel aircraft cable 1x7		
15,000 lbs ultimate strength	RLCSS	30/CFT
1/4" galvanized aircraft cable 7x19		
7,000 lbs. ultimate strength	1/4GAC	11/CFT
Brake winch, 2,500 lb. lifting capacity		
Other winches listed in Erection Tool section	B2503	16



#### Toolbox

Description	Part Number	Weight
Tool box, 22"x10"x10" (approximate size)	ETTBL	5

# **Beam Clamp**

Description	Part Number	Weight
3/8" beam clamp	BC38	30/100
1/2" beam clamp	BC12	40/100



# **Paints and Supplies**

Description	Part Number	Weight
Tower paint, orange, acrylic latex	PNTNP05	11/GAL
Tower paint, white, acrylic latex	PNTNPW9	11/GAL
Cold Galvanize, spray	380063	1
Cold Galvanize, quart can	380065	6/QT.
Paint mitt, with thumb	ETPM	.25



### <u>ROHN NO PRIME WATER BASE TOWER PAINT</u> for use on untreated galvanized surfaces

#### **Cut Your Installation Costs**

Tower White and Tower Orange are protective coatings formulated with a vinyl/acrylic emulsion resin providing long-term protection and performance. These coatings offer excellent resistance to weathering, ease of application and freedom from fire hazard. Meets FAA regulations for color coding transmission towers. Federal Standard No. 595 Colors, 12197 and 17875.

#### Preparation

Galvanized Surfaces: It is not necessary to etch or weather new galvanized surfaces. Remove all deteriorated coatings by scraping or wirebrushing. Remove grease, oil, salt, white rust, or dirt by washing with a suitable detergent solution. No primer necessary except where galvanizing has been damaged, then spot prime with zinc dust primer.

#### Application

These products are formulated specifically for application to galvanized steel towers by paint mittens, air atomized spray or airless spray. May be applied as a one coat system. However, to assure maximum color uniformity and hiding, application of an additional coat may be desired. Will also perform well over uncoated galvanized metal surfaces and wood.

March	15,	1992

#### **ROHN Tower Field Treating & Painting Specifications**

All instruments of authorization for tower licensing, wherever antenna structures must be painted, clearly outline the manner in which such structures are to be marked. Under no circumstances is there to be any deviation, as F.C.C.'s Field Engineering & Monitoring Bureau has a tight inspection schedule and could issue violation notices to licensees who have not complied.

The pertinent rule section to be observed is:

Antenna structures shall be painted throughout their height with alternate bands of aviation surface orange and white, terminating with aviation surface orange bands at both top and bottom. The width of the bands shall be approximately one-seventh the height of the structure; however, the bands shall not be more than 100 feet nor less than 1-1/2 feet in width. All towers shall be cleaned or repainted as often as necessary to maintain good visibility.

Suggested procedures for treating and painting towers in the field are:

#### 1. Treating Galvanized Surfaces for Oil Based Paints:

Prior to painting, the surface of all tower parts shall be treated by applying with a brush a chemical solution containing the following: 2 ounces each – Copper Chloride/Copper Nitrate/Sal Ammoniac, available from ROHN in one package (ROHN Part Number T1)

2 ounces Muriatic Acid, obtain locally (Note: Muriatic Acid is extremely dangerous and should be treated carefully. Wear protective clothing, i.e. gloves, face masks/shields, glasses, etc. Follow the instructions on the container. ROHN takes no responsibility for improper use of Muriatic Acid).

1 gallon water

2. The treated surfaces shall again be washed with plain water and allowed to completely dry before applying any paint.

#### 3. Applying Paint:

All surfaces of all parts of the tower, including any exposed steel of the anchors, turnbuckles and cable clamps, shall be painted, except the guy wires and accessories, such as antennas, ladders, bottom of flanges, lights and cables. All bolts and nuts, which have not been painted during assembly shall be painted after erecting.

The paint shall be applied by brushing or spraying, depending on conditions or the erector's option. All surfaces shall be uniformly covered, with no streaks or incompletely covered surfaces permitted.

Before painting, all surfaces shall be clean and free from all foreign matter. All painting shall be done in dry weather for best results. Paint shall not be applied on wet surfaces, nor when the relative humidity exceeds 80%, or when the temperature of the surrounding air or the surface to be painted is 50° F or below.

Steel shall not be handled until paint is thoroughly dry. After erection, the tower paint shall be carefully touched up, assuring proper coverage of all areas to be painted.

	Clean Up With Soap and Water			
	Physical Characte	ristics		
ł	Type Vehicle	Blended Vinyl Acrylic Emulsion		
n	Type Solvent	Water		
	Flash Point	Non-Flammable		
	Contains No Lead			
r-	Heat Resistance	180° F, 82° C		
	Finish	Flat		
	Drying Time at 70° I	F (21°C) and 50% Relative Humidity		
	Touch	1 hour		
	Recoat	2-4 hours		
	Hard	3-4 weeks		
15	Coverage	200-400 Square feet per gallon at the recommended dry film thickness of 1-2 mils.		
	Order PNTNP05 (or	ange) or PNTNPW9 (white) 11#/gallon		



Hardware/ Installation Accessories

# Wrenches









Description		Part Number	Weight	
Adjustable wrench, drop forged alloy steel, heat treated:				
10"			ETCRTW10	1
12"			ETCRTW12	1.5
18"			ETCRTW18	5.5
Straight pipe wrench, ı	malleable iron I-beam	handle:		
10"			ETHDPW10	3
12"			ETHDPW12	4
Construction wrench w	ith drifting and alignin	g handle:		
Bolt SizeOpening	Length			
1/2"	7/8"	12"	ETCTW7/8	1
5/8"	1-1/16"	14-3/4"	ETCTW11/16	1.75
3/4"	1-1/4"	17"	ETCTW11/4	2
7/8"	1-7/16"	17-5/16"	ETCTW17/16	2.75
]"	1-5/8"	17-11/16"	ETCTW15/8	3.75
Combination wrench s	et:			
1/2" 9/16" 5/8" 3/4" 7/8" openings 5 pieces			ETCWSFT	120/100

# Pliers and Grips





Description		Part Number	Weight	
Locking plier/wrenc	Locking plier/wrench, 10" straight jaws			1.5
<b></b>				0.5
Thin nose pliers, 6"			ETINP	.25
			FTCCO	1
Side Cuffers, 8" forg	jed steel with polished ste	el finish	EISC8	I
Channeleck pliers 12" forced polished steel finish		FTCHP12	1 75	
Channelock pilers, 12, lorged, polished sieer innsh		LICIII12	1.75	
Cable arips:				
Maximum	Minimum	Maximum		
Cable Size	Cable Size	Safe Load		
.37"	.12"	4,500 lbs.	ETCG37	3
.75"	.37"	10,000 lbs.	ETCG75	4
1.00"	.75"	1 <i>5,</i> 000 lbs.	ETCGI00	17



#### Rachets, Sockets and Socket Adapters

Description	Part Number	Weight
Reversible ratchet handles:		
3/8" drive, 7" handle	ETRRH738	70/100
1/2" drive, 10" handle	ETRRH1012	150/100
1/2" drive, 15" handle	ETRRH1512	320/100
3/4" drive, 19" handle	ETRRH1934	500/100
Sockets:		
3/8" Drive, deep set		
7/16"	ETDS7/1638	11/100
1/2"	ETDS1/238	10/100
9/16"	ETOS9/1638	16/100
5/8"	ETDS5/838	20/100
11/16	ETDS11/1638	22/100
3/4"	ETDS3/438	28/100
13/16"	ETDS13/1638	30/100
7/8"	ETDS7/838	37/100
1/2" Drive, deep set		
7/16"	ETDS7/1612	23/100
1/2"	ETDS1/212	29/100
9/16"	ETDS9/1612	29/100
11/16"	ETDS11/1612	30/100
13/16"	ETDS13/1612	44/100
7/8"	ETDS7/812	51/100
15/16"	ETOS15/1612	58/100
1-1/16"	ETDS1&1/1612	80/100
1-1/8"	ETDS11/812	81/100
3/4" Drive, deep set		
1-1/4"	ETDS11/434	118/100
1-5/16"	ETDS15/1634	123/100
1-7/16"	ETDS17/1634	140/100
1-1/2"	ETDS11/234	174/100
1-5/8"	ETDS15/834	212/100
Socket Adapters:		
To convert 3/8" to 1/2"	ETSADAP38/122	13/100
To convert 1/2" to 3/8"	ETSADAP12/38	15/100
To convert 1/2" to 3/4"	ETSADAP12/34	31/100
To convert $3/4$ " to $1/2$ "	FTSADAP34/12	44/100

# Screwdrivers

Description	Part Number	Weight
Light blade, cabinet tip, 6" blade, 3/16" diameter, 9-1/16" length	ETSD3/16	15/100
Square blade, standard tip, 6" blade, 5/16" diameter, 10" length	ETSD5/16	30/100

#### Hammers

Description	Part Number	Weight
Ball pien hammer, 40 oz., 16" length, hickory handle	ETHAM40	3
Sledge hammer double face, 8 Ibs. 32" handle 2-1/4" face	ETDFS8	8



O



HA-20



Hardware/ Installation Accessories

#### **Cutting and Stripping Tools**





Description	Part Number	Weight
Hack saw, adjusts for 8" to 12" blades (10" provided),		
3-1/4" depth of cut	ETHS10	1.6
Hack saw blades, set of ten 10" blades	ETHSB10	.4
Tin snips, drop-forged steel with polished jaws	ETTS 10	1
Wire strippers, 7-1/2", cuts bolts & wire, strips wire,		
measures, gauges wire	ETWS1000	.5
Bolt/center cutters, cuts galvanized strand guy wire up to 1/2"	ETCCC1/2	18.75

#### **Dynamometers and Transits**

Description







Part Number

Weight

#### **Measuring Tools**



Description	Part Number	Weight
Level, 3 position, 4' length, one piece magnesium, I-beam construction	ETL4	2
Protractor plumb and level, for installing guy anchors at proper slope	ETGAL	.4
Steel tape, 50' or 15 meters, metric and English	ETST15M/50	.8





#### **Punches and Pins**











Description	Part Number	Weight
Lining up punch, hexagon, 3/16" point, 1/2" stock,10" length	ETLUP3/I6	.5
Lining up punch, hexagon, 1/4" point, 3/4" stock, 15" length	ETLUPI/4	1
Bull pin, 15" long	ETBP3/8	2.25
Serving tool	CST1	3
Pinch bar, 5'	ETPB30	7

# Files and Rasps

Description	Part Number	Weight
File, rasp, half round	ETFILE	.4
File, 1/2" diameter round, 12" long	ETFILER	.33

### **Beacons and Lenses**

Description	Part Number	Weight
Chain hoist,		
heavy duty 6,000 lb., maximum lift 10', with hook latches	ETHDCH	45
Cable hoist,		
light duty 2 ton capacity, maximum lift 6', 3/16" aircraft type cable	ETLDCH	9
Hand winch,		
heavy duty, 2,000 lb. capacity, 735' 1/8" cable drum cap.	ETHW2000	
heavy duty, 4,000 lb. capacity, 460' 1/4" cable drum cap.	ETHW4000	
Choker sling, cable braided eye & eye		
3', 3/8", max. strength. 1,600 lbs.	ETCS3/8X3	1.8
6', 3/8", max. strength. 1,600 lbs.	ETCS3/8X6	2
15',3/8", max. strength. 1,600 lbs.	ETCS3/8XI5	5
30', 3/8", max. strength. 1,600 lbs.	ETCS3/8X30	8.8
3', 1/2", max. strength. 2,800 lbs.	ETCS1/2X3	2.4
6', 1/2", max. strength. 2,800 lbs.	ETCS1/2X6	4.8
15,1/2", max. strength. 2,800 lbs.	ETCS1/2XI5	12
30', 1/2", max. strength. 2,800 lbs.	ETCS1/2X30	24
Snatch block, 8,000 lb. sate working load, with hook	ETSB18HHD	6
Snatch block, 8,000 lb. sate working load, with shackle	ETSB19SHD	6
	ET M (D.O.	1.0
5" Wood block, 2 pant with shackle, 1,800 lb. safe load	ETWB2	4.8
5" Wood block, 3 part with shackle, 2,400 lb. sate load	ETWB3	6.5



# Chain, Rope and Cable





Description	Part Number	Weight
Chain, 1/2" with 2 clevis hooks, 10' long	ETCHN1/2	10
Manila rope, 3 strand, lubricated 3/8", tensile strength 1,220 lbs.		
600' coil	ETMR3/8X600	24
1,200' coil	ETMR3/8X1200	48
1/2", tensile strength 2,830 lbs.		
600' coil	ETMRI/2X600	44
1,200' coil	ETMRI/2X1200	88
5/8", tensile strength 3.960 lbs		
600' coil	ETMR5/8X600	79
1,200' coil	ETMR5/8X1200	157
Polypropolene rope 3/8", tensile strength 2,440 lbs.		
600' coil	ETPR3/8X600.	23
1,200' coil	ETPR3/8X1200	46
1/2", tensile strength 3780 lbs.		
600' coil	ETPR1/2X600	42
1,200' coil	ETPR1/2X1200	84
5/8", tensile strength 5,670 lbs.		
600' coil	ETPR5/8X600	50
1,200' coil	ETPR5/8x1200	100
Winch cable		
1/8", 2,000 lb. breaking strength	ETWC18	.06/FF
1/4", 5,880 lb. breaking strength	ETWC14	.12/FF
3/813 1201b breaking strength	FTWC38	25/FF



#### **Erection Fixtures**

Description	Part Number	Weight
12' for towers with 1-1/4" tubular side rails	EF2545	20

Important: Erection fixtures should only be used to raise one section, or any part of a section, at one time. They are not intended for the lifting of people.



# WAVEGUIDE BRIDGES & LADDERS



Products for a Growing World of Technology

# Blank





# HORIZONTAL WAVEGUIDE BRIDGE

ROHN's Horizontal Waveguide Bridge comes complete in 10 ft. lengths in 24" or 48" widths. This Waveguide Bridge is completely self-supporting and includes 3 levels of 'trapeze'. This allows the transmission line to hang below the grating protection for safety against hazards such as falling ice. All items are hot dip galvanized. The threaded rod for the trapeze hanger angle can also be ordered as stainless steel.





# **WAVEGUIDE** SUPPORT



#### Waveguide Ladder Assembly

ROHN Waveguide Ladder assemblies come in 10 ft. or 20 ft. sections with pre-punched rungs in two variations, 8 or 15 holes, with both 7/16" diameter holes to accommodate butterfly hangers and 3/4" diameter holes to accept snap-in hangers. These ladders can be ordered with either 3 ft. or 4 ft. rung spacing. The 8 hole ladder is 19-1/6" wide and the 15 hole ladder is 34-13/16" wide. Mounting clamp assemblies must be ordered separately based upon brace size to which it is to be attached. All items are hot dip galvanized.

#### Special instructions on ordering Waveguide Ladders and Clamps

Waveguide ladder mounting clamp assemblies are included as part of the Waveguide Ladder but must be specified/ordered separately based upon brace size. See lower table on this page for part numbers and descriptions. Note there are tables for round and angle braces.

Part Number	Description
WL20F154KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 4 foot spacing
WL10F154KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 4 foot spacing
WL20F84KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 4 foot spacing
WL10F84KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 4 foot spacing
WL20F153KD	Waveguide Ladder, 20 foot section, 15 hole rungs with 3 foot spacing
WL10F153KD	Waveguide Ladder, 10 foot section, 15 hole rungs with 3 foot spacing
WL20F83KD	Waveguide Ladder, 20 foot section, 8 hole rungs with 3 foot spacing
WL10F83KD	Waveguide Ladder, 10 foot section, 8 hole rungs with 3 foot spacing



# FALL PROTECTION



Products for a Growing World of Technology




# FALL PROTECTION

# R O H N - THE ONLY SOURCE You'll Need

ROHN, in addition to making the highest quality towers, poles, equipment enclosures and mounts, also offers all the hardware and accessories you need to complete the package. From safety harnesses to steel tubing and masts, we've got what you need. All with the same high quality and engineering you'd expect from ROHN.

# R O H N - LOC SAFETY Climbing Device

When you install a ROHN -Loc you're protecting your workers as well as yourself. With ROHN -Loc you can overcome one of the biggest obstacles facing workers today, the reluctance to use complicated or bulky safety devices. ROHN -Loc is designed for permanent installation on a ladder or step-bolt equipped structure of any kind. It requires no complex assembly or complicated procedures for ordinary use. The convenience of ROHN -Loc is one of its strongest features, because a safety device does no good if workers won't use it.

The ROHN -Loc system uses top and bottom brackets which secure a 3/8'' cable. The ROHN-Loc safety clamp is permanently attached to the harness. The safety clamp locks to the cable allowing the worker to climb the structure with the clamp sliding freely along the cable and automatically past the safety cable restraints.



The cable is kept parallel to the structure along the entire length with cable restraints designed to keep the cable rigid, even in high winds. The ROHN -Loc Safety Harness and Safety Clamp securely lock onto the cable and the worker is secured to the structure.

Because of the unique design of the ROHN -Loc Safety Clamp, it is able to automatically slide past the intermediate cable restraints without any special effort or fumbling with latches or levers, leaving both hands free for safe climbing.

The top safety cable bracket can also serve as a climbing extension with permanently attached hand grips for workers to use in moving onto a platform or away from the ladder itself.

# Additional Features Of the ROHN-Loc Safety Harness and Safety Clamp

- Made of 1 <sup>3</sup>/4" (44mm) nylon webbing lined with Ultra-Hyde all wear points for reinforcement and comfort
- Drop-forged tongue buckles with rollers and grommeted holes on waist and leg straps allowing a wide range of adjustments
- Quickly adjustable shoulder straps fasten with single-pass friction buckles
- Features a drop-forged circle D-ring at the back with adjustable nylonlanyard provided as a fall-arrest device
- Has an integral waist belt with D-rings which permits the harness to be used for positioning
- Stainless steel positive gripping clamp with special lock to ensure secure attachment to safety cable
- Unique double lock system allows worker to release unit with one hand at any elevation plus prevents accidental disconnection





# <u>Rohn</u>

#### Safety Cable

3/8" galvanized steel cable held rigid against ice and wind by cable restraints. Stainless steel cable also available.

#### **Optional Top Safety Cable Bracket**

Hot Dip Galvanized steel with step bolts to serve as climbing extension.

#### **Bottom Safety Cable Bracket**

Hot Dip Galvanized formed steel with multiple bolt holes for adaptable installation.



Hardware/ Fall Protection



# ROHN-LOC SAFETY CLIMBING DEVICES

For Use With Leg or Face Mounted Ladder (Refer to Drawing No. C741170 for further details.)

	Number of			Number of	uorun <i>3.</i> 7		Number of	
Part Number	<u>Restrainers</u>	<u>Wt.</u>	Part Number	Restrainers	<u>Wt.</u>	Part Number	<u>Restrainers</u>	<u>Wt.</u>
			RL210	10	263	RL410	20	423
RL020	0	106	RL220	10	266	RL420	20	426
RLO30	1	119	RL230	11	279	RL430	21	449
RLO40	1	122	RL240	11	282	RL440	21	452
RL050	2	135	RL250	12	295	RL450	22	455
RLO60	2	138	RL260	12	298	RL460	22	458
RL070	3	151	RL270	13	321	RL470	23	471
RL080	3	154	RL280	13	324	RL480	23	474
RL090	4	170	RL290	14	327	RL490	24	483
RL100	4	173	RL300	14	330	RL500	24	490
RL110	5	183	RL310	15	343	RL510	25	503
RL120	5	186	RL320	15	346	RL520	25	506
RL130	6	199	RL330	16	359	RL530	26	519
RL140	6	202	RL340	16	362	RL540	26	522
RL150	7	215	RL350	17	375	RL550	27	529
			810/0					
RL160	/	218	RL360	1/	3/8	RL560	2/	532
RL170	8	231	RL370	18	391	RL570	28	561
RL180	8	234	RL380	18	394	RL580	28	564
RL190	9	247	RL390	19	407	RL590	29	567
RL200	9	250	RL400	19	410	RL600	29	570

Complete kits include one medium harness with safety clamp, necessary restrainers, top and bottom attachments, correct amount of 3/8" EHS cable to reach the top of the ladder, and necessary nuts, bolts, and U-bolts. For ordering the above, add suffix LAD to the appropriate kit part number. Individual part numbers for the top and bottom attachments and restrainers for use with ladder are as follows:

ROHN-Loc Top Bracket Assembly (for use with ladder attachment) RLTBL

RLBBL ROHN-Loc Bottom Bracket Assembly (for use with ladder attachment)

RLR1 ROHN-Loc Cable Restrainer (for use with ladder attachment)

If a ROHN-Loc Safety Climbing Device is to be used with a ROHN 25, 45, 55, 65, C or J per Drawing No. C741162, add suffix 25, 45, 55, 65, C or J to the appropriate kit part number. Individual part numbers for the top and bottom attachments and restrainers for use with 25, 45, 55, 65, C or J are as tollows.

**RLTBBB\*** ROHN-Loc Top & Bottom Bracket Assembly (for use with 25, 45, 55, 65, C or J tower)

ROHN-Loc Cable Restrainer (for use with 25, 45, 55, 65, or J tower) RLR2

RLR3 ROHN-Loc Cable Restrainer (for use with C tower)

If a ROHN-Loc Safety Climbing Device is to be leg mounted on a ROHN self supporting, 80 or 90 tower per Drawing No. C741234 (for top post assembly) or per Drawing No. C741242 (for top bracket assembly), individual items (one harness with safety clamp, necessary restrainers, sufficient amount of cable to reach the top of the tower, top and bottom attachments) must be ordered from the list below:

RLFBH**	Full-Body Harness with ROHN-Loc Safety Clamp
RLC (3/8 EHS)▲	ROHN-Loc 3/8" EHS Safety Cable
RLCSS▲	ROHN-Loc 3/8" Stainless Steel Safety Cable
rltpa*	ROHN-Loc Top Post Assembly (for use with step bolts)
RLTBA*	ROHN-Loc Top Bracket Assembly (for use with step bolts and through 4" pipe)
RLFPA*	ROHN-Loc Filler Plates (for use with tapered top or top plate)
RLCRA1	ROHN-Loc Cable Restrainer (for sections 1W through 5N)
RLCRA2	ROHN-Loc Cable Restrainer (for 4-1/2" O.D. or smaller pipe)
RLCRA3	ROHN-Loc Cable Restrainer (for 5" to 12" pipe)
RLBBA*	ROHN-Loc Bottom Bracket Assembly with Cable Hardware (for use with step bolts and through 10" pipe)

▲ Specify Tower Height

Note: For ROHN solid leg towers or bracketry to attach ROHN-Loc to a 9-1/2" flange plate or larger, contact the factory. Caution: The ROHN-Loc Safety Clamp must be used only on ROHN-Loc 3/8" Safety Cable. Use on any other cable is dangerous and could result in serious injury or death. ROHN recommends a complete inspection of the safety climb system if exposed to excessive stresses and will inspect it at the ROHN facility free if desired. Specifications subject to change without notice.

<sup>\*</sup>Specify tower model no. (25, 45, 55, 65, C, J) or section/pipe size. \*\*Specify size (waist size) – Small (32/40), Medium (36/44), Large (40/48), Extra Large (44/52)

### Hardware/ Fall Protection



















# Hardware/ Fall Protection







# <u>Saftey Climb System - Rail</u>

Part Number	Description	Qantity	Weight #
Safety RAM Rail			
SCL001-1	20' RAM safety rail c/w hardware	each	18
SCL001-2	10' RAM safety rail c/w hardware	each	9
SCL001-3	20' RAM safety rail c/w hardware top	each	18
SCL001-4	10' RAM safety rail c/w hardware top	each	9
SCL001-5	additional RAM clamp kits	each	2
RAM Trolleys			
160389	RAM spring lever trolley c/w carabiner	each	2
Safety Rail Stand-Off			
SCL002-1	safety rail stand-off	each	14
Safety Rail Stand-Off			
<b>Pinwheel Boom Location</b>			
SCL002-2	stand-off 2 lev. 2.88" OD (73 mm OD) boom	each	29
SCL002-3	stand-off 3 lev. 2.88" OD (73 mm OD) boom	each	39
SCL002-4	stand-off 2 lev. 4.5" OD (114 mm OD) boom	each	29
SCL002-5	stand-off 3 lev. 4.5" OD (114 mm OD) boom	each	39
SCL002-6	stand-off 2 lev. 3 1/2" to 4" OD (89-102 mm OD) sq. boom	each	43
SCL002-7	stand-off 3 lev. 3 1/2" to 4" OD (89-102 mm OD) sq. boom	each	60



The RAM Safety Climb Rail System is designed to mount directly to fixed ladders to provide fall protection while climbing. The system's unique design allows the trolley to be installed only one way, thus eliminating the possibility of an accident by installing the trolley upside down. The rails clamp to round or square 3/4" (19 mm) diameter ladder rungs. This product meets or exceeds all OSHA requirements for climbing safety. The RAM system is ordered by selecting (1) 10' or 20' Top Rail Kit and then selecting the appropriate number of 10' and 20' Rail Kits to achieve your tower height requirements. Mounting brackets and a rail splice are furnished with each of the 10' and 20' kits. Both the rail and the trolley are manufactured from premium-quality 6061-T6 aluminum. The trolley is ordered separately.



Part Number	Description	Qantity	Weight #
Safety RAM Cable-Ladder			
SCL010-1	25' RAM safety cable system	kit of 1	48
SCL001-2	50' RAM safety cable system	kit of 1	54
SCL010-3	100' RAM safety cable system	kit of 1	66
SCL010-4	150' RAM safety cable system	kit of 1	78
SCL010-5	200' RAM safety cable system	kit of 1	91
SCL010-6	250' RAM safety cable system	kit of 1	102
SCL010-7	300' RAM safety cable system	kit of 1	113
SCL010-8	350' RAM safety cable system	kit of 1	126
SCL010-9	400' RAM safety cable system	kit of 1	138
SCL010-10	SCL010-10 500' RAM safety cable system		162
	Note: Each cable system is complete with "L" type cable guides.		-
RAM Cable Safety			
Sleeve (Slider)			
SCL010-S	RAM cable safety sleeve (slider) kit	kit of 1	2
Optional Items:			
160418	straight cable guide	kit of 1	1
160419	"L" type cable guide	kit of 1	1
CLO10F cable guide extension bar		kit of 1	3

# <u>Saftey Climb System - Cable</u>



The RAM Safety Climb Cable System is designed to provide fall protection while climbing or descending a variety of ladders or vertical structures. The stainless steel slider (fall arrestor) can be attached or removed from the cable at any point. It is secured with a compatible carabiner, supplied with the slider, to the sternal D-ring on any approved climbing harness. The slider is not included in the system and must be ordered separately. The user is free to climb and descend with full use of the hands. In the event of a fall, the slider will automatically arrest the fall. The slider has a builtin mechanism preventing it from operating in the upside-down position. Kits are complete with all mounting hardware, top and bottom mounts, standoff brackets and cable. The RAM slider is designed specifically for use on 7x19 constructed 3/8" galvanized aircraft cable . This system will also support the use of DBI Sala's slider.

# Blank



# TOWER LIGHTING



Products for a Growing World of Technology



**\**A/+

# **OBSTRUCTION LIGHTING COMPONENTS**

Part Number Des	cri	pt	ior
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Fari Number	Description	<u><u>vvi</u>.</u>
B1R	300 MM Beacon with Red Glass – No Bulbs	77
OB1	Single Obstruction Light (Red), 3/4" Side Entrance – No Bulbs	3
OB2	Double Obstruction Light (Red), 3/4" Bottom Entrance – No Bulbs	6
RPH1P	Photocontrol Complete w/Socket and Outdoor Housing (120 Volt)	4
RPH2P	Photocontrol Complete w/Socket and Outdoor Housing (230 Volt)	4
FA1SSX1	Non-Alarm Beacon Flasher Only w/Outdoor Housing (For Use with One Beacon at the Top) (120 Volt) (Photocontrol or Time Switch Provided by Others)	17
FA2SSX1	Non-Alarm Beacon Flasher Only w/Outdoor Housing (For Use with Two Beacons, Synchronizing or Alternating Flash, (120 Volt)	18
FA3SSX1	Non-Alarm Beacon Flasher Only in Outdoor Housing (For Use with Three Beacons) (120 Volt)	19
FA1SSX1P	Non-Alarm Lighting Control with Outdoor Housing and Photocontrol, Red Only (For Use with One Red Beacon at the Top, (120 Volt)	18
FA2SSX1P**	Non-Alarm Lighting Control with Outdoor Housing and Photocontrol, Red Only (For Use with Two Beacons, Synchronizing or Alternating Flash) (120 Volt)	19
FA3SSX1P	Non-Alarm Lighting Control with Outdoor Housing and Photocontrol, Red Only (For Use with Three Beacons) (120 Volt)	20
A3LCA*	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with One Red Beacon at the Top – Close on Fail Contacts)	20
A5LCA*	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with Two Red Beacons at the Top – Close on Fail Contacts)	20
ULC350	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with One Red Beacon at the Top – Open or Close on Fail Contacts)	16
ULC700	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with Three Red Beacons and Two Levels of Side Lights – Open or Close on Fail Contacts)	42
LC12HAS*	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with One Red Beacon at the Top and Two Intermediate Red Beacons – Close on Fail Contacts)	29
LC12HAS13*	Alarmed Lighting Control (Same as Above Except Open on Fail Contacts)	29
LC22HAS	Alarmed Lighting Control with Indoor Housing and Photocontrol, Red Only or Dual Lighting (For Use with Two Red Beacons at the Top and Two Intermediate Red Beacons – Close on Fail Contacts)	29
LBRR1200**	Load Balance Resistor, Outdoor/Indoor Housing (1200 Watts)	10
LBRRKIT	Load Balance Resistor (Same as Above) with Wire, Conduit, and Locknuts to Connect Tower Lighting Kit to Radio Equipment Building	19
CB1	Conduit Breather, 3/4" Tap	1/2
JB4C	JB4 Junction Box with Cable Support, 3/4" Tap	3
JB4TC	JB4 Junction Box with 4 Contact Terminal Blocks and Cable Support, 3/4" Tap	3
JB7TC	JB7 Junction Box with 7 Contact Terminal Blocks and Cable Support, 1" Vertical Tap, 3/4" Horizontal Tap	6
B620W	Beacon Bulb (3000 Hour) – 120 Volt (Available in Case of 24 Bulbs)	
OB116W	Obstruction Light Bulb (8000 Hour) – 120 Volt (Available in Case of 120 Bulbs)	
OB100W	Obstruction Llght Bulb (2000 Hour) – 230 Volt (Available in Case of 120 Bulbs)	
WR100	Can of 100' x 1/2" Stainless Steel Wraplock with Buckles, Keys, and Ratchet Wrench	3
LRB1	Lightning Rod Assembly, 7/8" x 6' Solid Aluminum, with Base for 300 MM Beacon	6
LR	Lightning Rod Only, 7/8" x 6' Solid Aluminum, with Nut (ROHN Beacon Mounting Plates Drilled to Fit This Rod)	3
LRCL	Lightning Rod Only, 5/8" x 5' Copper Clad, with Nuts (ROHN Beacon Mounting Plates Drilled to Fit This Rod)	6

\*Discontinued. Available on special request. Contact the factory for further details.

\*\*An LBRR1200 is required with FA2SSX1P control where constant line loading is required (on one beacon tower).

**Note:** Variations on above controls and parts for discontinued controls are available upon request.

Alarm controls are available in outdoor housings. Add NEMA4 to part number.

Prices and specifications are subject to change without notice.

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# **TOWER OBSTRUCTION LIGHTING KITS**

Tower <u>Height</u>	Standard Kit Part Number	230V, 50/60 Cycle <u>Kit Part Number</u>	*Self-Supporting Conversion <u>Kit Part Number</u>
Exposed Wire			
to 150'	RA1E	RA1EE	_
<u>Conduit</u>			
to 150'	RA1C	RA1CE	—
151' to 350'	FA1C	***	**FAKIT (1 req'd)
351' to 500'	A2C1	***	**FAKIT (2 req'd)
501' to 700'	A2C2	***	
<u>Alarm</u>			
to 150'	RA1CM	—	
151' to 350'	FA1CM	—	**FAKIT (1 req'd)
351' to 500'	A2C1A	—	**FAKIT (2 req'd)
501' to 700'	A2C2A		

All kits include photocontrol, necessary wire, fittings, junction boxes, lights, and flasher (where required) in outdoor housing, except alarm kits. Alarm kits include control in indoor housing with remote photocell. See drawings and parts lists for details.

- Notes: 1) Above kits are per FAA Advisory Circular 70/7460-1J.
  - 2) Prices for special lighting kits including medium/high intensity strobes, dual lighting (red and strobes), and towers over 700' are available upon request.
  - 3) Lamp life on 230 volt kits (RA1EE and RA1CE) is very short.
- \* In addition to a standard kit, order a conversion kit for each OB light level where tower face width is more than 8'. (A FAKIT8 conversion kit is required on towers with a face width exceeding 41", up to and including 8' face width.) The material in the conversion kit is sufficient to run from inside corner ladder to face. (See \*\* below.)
- \*\* Conversion kit part number (FAKIT15, FAKIT25, FAKIT35, FAKIT45) is determined by face width at DB light level. (For example, if tower face width is 13'4" at the OB light level, order part number FAKIT15.)
- \*\*\* Order standard kit plus one transformer XFRFA1C (for towers 151' to 350') or XFRFA2C (for towers 351' to 700').

(Note: Transformer may not be necessary on AM towers. Consult the factory for additional information.)

Prices and specifications are subject to change without notice. F.O.B. Peoria, Illinois



# **REPLACEMENT PARTS FOR OBSTRUCTION LIGHTING**

#### Part Number

C	)B	1	&	O	B2	0	bs	tru	JCt	io	n	Lig	hts	5
	-				• •			1.0		-				-

(Dwg. C6	20701/C621306)
530230	OB Red Lens (AP3522R)
OBG1	Gasket
OBR	OB Retainer Ring
OBL	OB Latch
50714	OB Bulb Receptacle
P1 Pages	n* (Dr. 770040)
711120	Pod Filter Scroops (AP3524) (2 Pog!d por Bogson)
PCS	Set of 9 Person Carliet
	Sel of 7 beacon Gaskels
DGD1 PCM1	Gasket (1 per Beacon)
DGINI PCT1	Gasket (1 per Beacon)
DGT1 DCT2	Gasker (Tper Deacon)
	Gasker (5 per beacon)
99DJ	Beacon Fligh Temperature VVIring (Inside) – Complete Ser
Z3X340	Claur Claur Silian Sanlart (alua) 2 Or Tuba
550020	Clear Glass Silicon Sealant (glue) – 5 Oz. Tube
B1R Beac	on (Dwg. D770040)
AP3557	Upper Beacon Lens, Red
AP3556	Center Beacon Lens, Red
AP3555	Lower Beacon Lens, Red (2 Reg'd. per Beacon)
BGSR	Set of 5 Beacon Gaskets
BGB1	Gasket (2 per Beacon)
BGM1	Gasket (1 per Beacon)
BGT1	Gasket (1 per Beacon)
BGT2	Gasket (1 per Beacon)
WBS	Beacon High Temperature Wiring (Inside) - Complete Set
23X546	Beacon Bulb Receptacle
550020	Clear Glass Silicon Sealant (Glue) – 3 Oz. Tube
Miscellan	eous
2237	Water Tight Connector for 2 Conductor (2 #12) UF Cable

2534	Water Tight Connector for 2 #14 SO	
2535	Water Tight Connector for 3 Conductor	
	(1 #6/Ĭ #8/1 #12)	

 $\underline{\mbox{Note:}}$  Replacement Castings for B1 and B1R Beacons Available Upon Request

\*Discontinued. Not available as a complete unit

Prices and specifications are subject to change without notice.

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#### Part Number

RPH1* & RPH	12* Photocontrols (Dwg. D770021)
KH2250	Printed Circuit Board, Assembled (120 Volt)
KH2251	Printed Circuit Board, Assembled (230 Volt)
K10P11D55	Relay (Solder Type)
NSL446	Photocell Eye Only
R5K10W	Resistor (230 Volt)
TC493B	Capacitor
512	Rectifier
RPH1P & RPI	H2P Photocontrols (Dwg. C930709)
RPCP1	Photocontrol (120 Volt)
RPCP2	Photocontrol (230 Volt)
RPCPS	Socket Only for RPCP 1/RPCP2
FA1SSX1P, F/	A2SSX1P & FA3SSX1P Flashers & PC
(Dwg. C9310	)16/C930988/C930987/C940639)
FA1SSX1	1 Ckt Flasher in Outdoor Housing
FA2SSX1	2 Ckt Flasher in Outdoor Housing
FA3SSX1	3 Ckt Flasher in Outdoor Housing
FA1SSX2	1 Ckt Flasher Panel (120 Volt)
FA2SSX2	2 Ckt Flasher Panel (120 Volt)
FA3SSX2	3 Ckt Flasher Panel (120 Volt)
RPH1P	Photocontrol (120 Volt)
SSBFA120	Flasher Printed Circuit Board, Assembled (120 Volt)
SSBFA230	Flasher Printed Circuit Board, Assembled (230 Volt)
510018	Jumper, Program
510167	Regulator
510168	Timer Oscillator
510170	Diode, Red Light Emitting
510171	Suppressor (27 Volt)
510172	Suppressor, Transient (120 Volt)
510173	Rectifier (50 Volt)
510204	Transformer (120 Volt)
510205	Transformer (230 Volt)
6154H	Relay, Solid State
A3LCA* & A5	SLCA* Flashers & PC with Alarm
(Dwg. D9305	533/C840385L)
	Printed Circuit Reard Assembled

۱		
	A3PCBA	Printed Circuit Board, Assembled
	A5PCBA	Printed Circuit Board, Assembled
	LCAPC	Photocell Only
	NSL446	Photocell Eye Only
	TLC43	Power Transformer
	TLC48	Relay, Plug In (12 VDC)
	510172	Supressor, Transient (120 Volt)
	510194	Current Transformer
	61 <i>5</i> 4H	Relay, Solid State
	A3LCANEMA4	Complete Control w/Outdoor Housing and Photocell
	A5LCANEMA4	Complete Control w/Outdoor Housing and Photocell



# **REPLACEMENT PARTS FOR OBSTRUCTION LIGHTING**

#### Part Number

#### ULC350 & ULC700 Flasher & Photocontrol with Alarm (Dwg. C941430/D950891)

l	Dwg. C7414.	JU/ U7JU07 I )
	ULC350PNL	Panel Only (for ULC350)
	ULC700PNL	Panel Only (for ULC700)
	EBPCB	Expansion Board (ULC700)
	CSPCB	Current Sensor Printed Circuit Board
	MCPCB	Main Control Printed Circuit Board
	RDPCB	Relay Driver Printed Circuit Board
	RPH1P	Photocontrol (120 Volt)
	510124	Relay, 4PDT (120 VAC)
	510128	Relay, DPDT (120V/25A)
	6154H	Relay, Solid State
	ULC350NEMA4	Complete ULC350 Control w/Outdoor Housing
	ULC700NEMA4	Complete ULC700 Control w/Outdoor Housing

#### LC12HAS\* & LC22HAS\* Flashers & PC with Alarms (Dwg. C930539/D930540/C921411)

•	~	
	A5PCBA11S	Printed Circuit Board, Assembled
	LCAPC	Photocell Only
	NSL446	Photocell Eye Only
	TLC43	Power Transformer
	TLC48	Relay, Plug In (12 VDC)
	510041	Module, Lamp Out
	510129	Relay, Transfer
	510172	Suppressor, Transient (120 Volt)
	510194	Current Transformer
	510215A	Relay, Dual Solid State
	6154H	Relay, Solid State
	LC12HASNEMA	Complete Control in Outdoor Housing

#### A3BFA2 Flasher (Dwg. C930988/D930987)

SSBFA120	Printed Circuit Board, Assembled (120 Volt)
SSBFA230	Printed Circuit Board, Assembled (120 Volt)
510018	Jumper, Program
510167	Regulator
510168	Timer Oscillator
510170	Diode, Red Light Emitting
510171	Suppressor (27 Volt)
510172	Suppressor, Transient (12 Volt)
510173	Rectifier (50 Volt)
510204	Transformer (120 Volt)
510205	Transformer (230 Volt)
61 <i>5</i> 4H	Relay, Solid State

\*Discontinued. Not available as a complete unit.

Note: For additional replacement parts not listed, contact the factory.

Prices and specifications are subject to change without notice.

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#### Part Number

A3SS1 & A5S	<u> S1 Flasher with Photocontrol*</u>	
(Dwg. C820880/C820829)		
NSL446	Photocell Eye Only	
PCBA3/A5SSA	Printed Circuit Board, Assembled	
RPC12	Photocell Complete (120 Volt/230 Volt)	
510165	Transformer	
510172	Suppressor, Transient (120 Volt)	
6154H	Relay, Solid State	

#### A3SSX1 Flasher Only\* (Dwg. C821240)

PCBA3/A5SSXA	Printed Circuit Board, Assembled
510165	Transformer
510172	Suppressor, Transient (120 Volt)
6154H	Relay, Solid State

#### FA1SS1 & FA2SS1 Flasher with Photocontrol\* (Dwg. C861053/C861054/C861052)

NSL446	Photocell Eye Only
RPC123	Photocell Complete (120 Volt/230 Volt)
SSBFA120	Flasher Printed Circuit Board, Assembled (120 V
SSBFA230	Flasher Printed Circuit Board, Assembled (120 V
SSPCA	Photocell Printed Circuit Board, Assembled (120 Volt/230 Volt)
WH1	1 Ckt Flasher Wiring Harness
WH2	2 Ckt Flasher Wiring Harness
510172	Suppressor, Transient (120 Volt)
61 <i>5</i> 4H	Relay, Solid State

#### A3LCA11 & A5LCA11 Flasher PC with Alarm\* (Dwg. C902054/D920606)

A3PCBA11	Printed Circuit Board, Assembled
A5PCBA11	Printed Circuit Board, Assembled
RPC123	Photocell Only
NSL446	Photocell Eye Only
TLC43	Power Transformer
TLC48	Relay, Plug In (12 VDC)
510129	Relay, Transfer
510172	Suppressor, Transient (120 Volt)
6154H	Relay, Solid State

#### RC231PC Flasher & Photocontrol\* (Dwg. B770717)

SSM11	Flasher Unit
RC23PCBR1	Printed Circuit Board Assembly
RPC12	Photocell Only

**Tower Lighting** 







# <u>RA1E LIGHTING KIT</u>

## To 150' w/Exposed Wire 120 Volt AC

Qty.	Part Number	Description
1	OB2	Double Obstruction Light
2	OB116W	Obstruction Light Bulbs (120 Volt)
1	JB4TC	Junction Box
2	2237	Water Tight Connectors
1	520009	Conduit Nipple 3/4" x 18"
2	520013	Plastic Pipe Plugs 3/4"
2	520002	Conduit Lock Nuts 3/4"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
1	RPH1	Photo-Electric Control (120 Volt)
10'	530024	#14 Wire (Black)
10'	530023	#14 Wire (White)
_	530030	2 conductor #12 cable (tower height plus 5')
1	OBLITECAT	Obstruction Lighting Catalog

For Guyed or Self-Supporting Tower.

Prices and specifications are subject to change without notice. F.O.B. Peoria, Illinois







# RA1C LIGHTING KIT To 150' w/Conduit 120 Volt AC

Qty.	Part Number	Description
1	OB2	Double Obstruction Light
2	OB116W	Obstruction Light Bulbs (120 Volt)
2	JB4TC	Junction Boxes
1	JB4C	Junction Box
2	520028	Short Elbows 3/4"
2	CB1	Conduit Breathers
1	520006	3 Piece Coupling 3/4"
2	520041	3 Piece Coupling 1/2"
3	520013	Plastic Pipe Plugs 3/4"
8	520002	Conduit Lock Nuts 3/4"
4	520031	Conduit Lock Nuts 1/2"
4	520012	Reducers 3/4" to 1/2"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
1	RPH1P	Photo-Electric Control (120 Volt)
1	520007	Conduit Nipple 3/4" x 4"
1	520008	Conduit Nipple 3/4" x 12"
1	520009	Conduit Nipple 3/4" x 18"
—	530024	#14 Wire (Black) (Tower Height Plus 15')
	530023	#14 Wire (White) (Tower Height Plus 15')
_	520029	Rigid Galvanized Conduit 1/2" (Tower Height)
1	OBLITECAT	Obstruction Lighting Catalog

For Guyed or Self-Supporting Tower.

**Tower Lighting** 







## FA1C LIGHTING KIT 151' to 350' w/Conduit 120 Volt AC

Qty.	Part Number	Description
3	OB1	Single Obstruction Lights
3	JB4TC	Junction Boxes
2	JB4C	Junction Boxes
1	2534	Water Tight Connector
1	520028	Short Elbow 3/4"
2	CB1	Conduit Breathers
6	520006	3 Piece Couplings 3/4"
2	520062	Pipe Couplings 3/4"
2	520013	Plastic Pipe Plugs 3/4"
1	TB27A	TB Condulet, Gasket, and Cover 3/4"
17	520002	Conduit Lock Nuts 3/4"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
25'	530021	#14 Wire (Red)
25'	530023	#14 Wire (White)
3	520007	Conduit Nipple 3/4" x 4"
—	530021	#14 Wire (Red) (1/2 Tower Height plus 15')
3	520009	Conduit Nipples 3/4" x 18"
1	520083	Elbows 3/4" x 12" with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	FA1SSX1P	Outdoor Flasher Box w/Flasher, Remote Photocell, and Hardware
3	520008	Conduit Nipples 3/4" x 12"
1	B1R	Beacon with Red Glass
2	B620W	Beacon Bulbs (120 Volt)
3	OB116W	Obstruction Light Bulbs (120 Volt)
_	530006	#6 Wire (White) (Tower Height Plus 15')
	530009	#8 Wire (Black) (Tower Height Plus 15')
	520001	Rigid Galvanized Conduit 3/4" (Tower Height)

Conversion kit is required on towers over 41" face width. Conversion kit consists of required material for installing side lights on wider face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

See Drawing No. C860155R1 For Details







# A2C1 & A2C2 LIGHTING KIT

#### (Non-Alarm Unit) 351' to 700' w/Conduit

Qty.	Part Number	Description
6	OB1	Single Obstruction Lights
4	JB4C	Junction Boxes
2	JB4TC	Junction Boxes
3	JB7TC	Junction Boxes
3	2534	Water Tight Connectors
6	520017	Reducers 1" to 3/4"
2	520028	Short Elbows 3/4"
3	CB1	Conduit Breathers
12	520006	Erickson Couplings 3/4"
3	520013	Plastic Pipe Plugs 3/4"
2	TB27A	TB Condulets, Gaskets, and Covers 3/4"
40	520002	Conduit Lock Nuts 3/4"
2	WR100	Cans Stainless Steel Wraplock (1/2" x 100')
2	520023	Cans Joint Compound
50'	530021	#14 Wire (Red)
50'	530023	#14 Wire (White)
5	520007	Conduit Nipples 3/4" x 4"
6	520008	Conduit Nipples 3/4" x 12"
6	520009	Conduit Nipples 3/4" x 18"
4	520062	Pipe Couplers 3/4"
2	520083	Elbows 3/4" x 12" with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	FA3SSX1PXFM	Outdoor Flasher Box with Flasher, Remote Photocell, Hardware, and Boost Transformers
3	B1R	Beacons w/Red Glass
6	B620W	Beacon Bulbs (120 volt)
6	OB116W	Obstruction Light Bulbs (120 volt)
-	530012	#8 Wire (white) (Tower Height Plus 40')
-	530016	#10 Wire (black) (Tower Height Plus 40')
_	530017	#12 Wire (red) (¾ Tower Height Plus 30′)
-	530021	#14 Wire (red) (1/4 Tower Height Plus 20')
-	530024	2 – #14 Wire (black) (1/2 Tower Height Plus 20')
-	520001	Rigid Galvanized Conduit ¾" (Tower Height)

The above wire sizes are for tower heights of 351' to 500'. For heights 501' to 700', #8 white (530012) changes to #6 white (530006); #10 black (530016) changes to #8 black (530009); and #12 red (530017) changes to #10 red (530014), and #14 black (530024) changes to #12 black (530018).

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

Note: Wire lengths may vary due to structure height including appurtenances.

Prices and specifications are subject to change without notice.

F.O.B. Peoria, Illinois







# RA1CM LIGHTING KIT To 150' w/Conduit

Qty.	Part Number	Description
1	OB2	Double ObstructionLight
2	OB116W	Obstruction Light Bulbs (120 volt)
2	JB4TC	Junction Boxes
1	JB4C	Junction Box
2	520028	Short Elbows ¾″
2	CB1	Conduit Breathers 3/4"
1	520006	3 Piece Coupling ¾″
2	520041	3 Piece Coupling 1/2"
2	520013	Plastic Pipe Plugs ¾″
8	520002	Conduit Lock Nuts ¾4″
6	520031	Conduit Lock Nuts 1/2"
5	520012	Reducers 3/4" to 1/2"
1	WR100	Can Stainless Steel Wraplock (1/2" x 100')
1	520023	Can Joint Compound
1	520008	Conduit Nipple ¾4″ x 12″
1	520009	Conduit Nipple ¾4″ x 18″
-	530024	#14 Wire (black) (Tower Height Plus 30')
-	530023	#14 Wire (white) (Tower Height Plus 30')
-	520029	Rigid Galvanized Conduit 1/2" (Tower Height Plus 20')
1	A3LCA11	Indoor Alarm Control w/Remote Photocell
1	OBLITECAT	Obstruction Lighting Catalog

For guyed or self-supporting tower.







# FA1CM LIGHTING KIT 151' to 350' w/Conduit

Qty.	Part Number	Description
3	OB1	Single Obstruction Light
3	JB4TC	Junction Boxes
2	JB4C	Junction Boxes
1	2534	Water Tight Connector
1	520028	Short Elbow ¾4″
2	CB1	Conduit Breathers
6	520006	Erickson Couplings 3⁄4″
2	520062	Pipe Couplings ¾4″
2	520013	Plastic Pipe Plugs 3/4"
1	TB27A	TB Condulet, Gasket, and Cover $\mathscr{Y}_{4}$ "
3	520031	Conduit Lock Nuts 1/2"
19	520002	Conduit Lock Nuts 3/4"
1	WR100	Can Stainless Steel Wraplock (1/2" × 100')
1	520023	Can Joint Compound
25′	530021	#14 Wire (Red)
25′	530023	#14 Wire (White)
2	520007	Conduit Nipple ¾4″ × 4″
_	530021	#14 Wire (Red) (1/2 Tower Height Plus 30')
3	520009	Conduit Nipples 3/4" x 18"
1	520083	Elbows ¾″ to 12″ with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	ULC350	Indoor Alarm Control with Remote Photocell
3	520008	Conduit Nipples ¾″ x 12″
1	B1R	Beacon w/Red Glass
2	B620W	Beacon Blubs (120 volt)
3	OB116W	Obstruction Light Bulbs (120 volt)
-	530006	#6 Wire (White) (Tower Height Plus 30')
_	530009	#8 Wire (Black) (Tower Height Plus 30')
_	520001	Rigid Galvanized Conduit ¾" (Tower Height Plus 10')
10′	520029	Rigid Galvanized Conduit 1/2" (For Remote Photocell)

Conversion kit is required on towers over 41" face width. Conversion kit consists of required material for installing side lights on wider face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

Note: #6 black wire (530005) replaces #8 black wire (530009) if tower height exceeds 300'.







# A2C1A & A2C2A LIGHTING KIT

#### (with Alarm Unit) 351' to 700' w/Conduit

Qty.	Part Number	Description
6	OB1	Single Obstruction Lights
4	JB4C	Junction Boxes
2	JB4TC	Junction Boxes
3	JB7TC	Junction Boxes
3	2534	Water Tight Connectors
6	520017	Reducers 1" to 3/4"
2	520028	Short Elbows 3/4"
3	CB1	Conduit Breathers
12	520006	Erickson Couplings 3/4"
3	520013	Plastic Pipe Plugs 3/4"
2	TB27A	TB Condulets, Gaskets, and Covers 3/4"
3	520031	Conduit Lock Nuts 1/2"
40	520002	Conduit Lock Nuts 3/4"
2	WR100	Cans Stainless Steel Wraplock (1/2" x 100')
2	520023	Cans Joint Compound
50'	530021	#14 Wire (Red)
50'	530023	#14 Wire (White)
5	520007	Conduit Nipples 3/4" x 4"
6	520008	Conduit Nipples 3/4" x 12"
6	520009	Conduit Nipples 3/4" x 18"
4	520062	Pipe Couplers 3/4"
2	520083	Elbows 3/4" x 12" with 30° Bend
1	OBLITECAT	Obstruction Lighting Catalog
1	ULC700	Indoor Alarm Control with Remote Photocell
3	B1R	Beacons w/Red Glass
6	B620W	Beacon Bulbs (120 Volt)
6	OB116W	Obstruction Light Bulbs (120 Volt)
_	530012	#8 Wire (White) (Tower Height Plus 60′)
-	530016	#10 Wire (Black) (Tower Height Plus 60')
-	530017	#12 Wire (Red) (¾ Tower Height Plus 50')
_	530021	#14 Wire (Red) (1/4 tTower Height Plus 40')
_	530024	2 – #14 Wire (Black) (1/2 Tower Height Plus 40')
-	520001	Rigid Galvanized Conduit ¾" (Tower Height Plus 10')
10′	520029	Rigid Galvanized Conduit 1/2" (for remote photocell)

The above wire sizes are for tower heights of 351' to 500'. For heights 501' to 700', #8 white (530012) changes to #6 white (530006); #10 black (530016) changes to #8 black (530009); and #12 red (530017) changes to #10 red (530014), and #14 black (530024) changes to #12 black (530018).

Conversion kit may be required on self-supporting towers, depending upon base size, and would consist of required material for installing side lights on varying face width structures. Conversion kit must be ordered as a separate item. Additional information is available upon request.

Note: Wire lengths may vary due to structure height including appurtenances.

Prices and specifications are subject to change without notice. F.O.B. Peoria, Illinois See Drawing No. D960684 For Further Details





**Tower Lighting** 





TL-20










**Tower Lighting** 













































## GENERAL INFORMATION



Products for A Growing World of Technology



## FOUNDATION INFORMATION



Products for A Growing World of Technology



## FOUNDATION AND ANCHOR TOLERANCES ALL FOUNDATIONS CONCRETE DIMENSIONS - PLUS OR MINUS I" (25 mm). DEPTH OF FOUNDATION - PLUS 3" (76 mm) OR MINUS O". DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE. REINFORCING STEEL PLACEMENT - PER A.C.I. 301. PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3 mm). VERTICAL EMBEDMENTS OUT OF PLUMB - 1/2 DEGREE. ANCHOR BOLTS 7. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" . (51 mm). 8. ANCHOR BOLT SPACING - 1/16" (2 mm). 9. ANCHOR BOLT CIRCLE ORIENTATION - 1/4 DEGREE. 10. ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2 mm). SELF-SUPPORTING TOWERS II. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES -PLUS OR MINUS 1/16" (2 mm) OR 1/16" (2 mm) PER 20 FT (6 m) OF FACE SPREAD. 12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS -1/2" (13 mm). GUYED TOWERS 13. GUY RADIUS - PLUS OR MINUS 5 PERCENT OF DISTANCE SPECIFIED. 14. ANCHOR ELEVATION - PLUS OR MINUS 5 PERCENT OF GUY RADIUS. 15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS) - 0.1 DEGREES. 16. ANCHOR ROD SLOPE - PLUS OR MINUS 1.0 DEGREE. 17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS PLUS OR MINUS 1.0 DEGREE. 18. ANCHOR HEAD OUT OF PLUMB - 1.0 DEGREE. 19. GUY INITIAL TENSION - PLUS OR MINUS 10 PERCENT OF TENSION SPECIFIED. NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY. WARNING !!! AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS. R6 REVISED AND REDRAWN 12/23/96 JLR use XK ▲ Rev By ▲ Ckd By ▲ Appd By No. A Revision Description 🔺 Date THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT. R Scale: NONE Bу Date Title: CSR 6/19/87 Drawn: FOUNDATION AND ANCHOR TOLERANCES KTL 9/25/87 Checked: XK <u>9/25/87</u> App. Eng.: DRAWING NO. : AB10214R6 App. Sales: AE 2/12/88



STANDARD FOUNDATION NOTES		
I. FOLVDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/FIA-222-E. "STRUCTURAL STAUDARDS FOR STEEL ANTENNA TONERS AND ANTENNA STRUCTURES. SECTION FOR "OMAL" SOIL CONDITIONS. "NORMAL" SOIL IS DEFINED AS FOR COMESTIVE SOIL WITH AN ALLOMBILE NET VERTICAL BEATING CARGITY OF 4000 FSF (192 K-9) AND ALLOMBILE NET VERTICAL BEATING CARGITY PER LILEAL FOOT OF DEPTH (62.9 KP0, PER LINEAL METER OF DEPTH) TO SAXIMM OF 4000 FSF (192 K-0).	<ol> <li>FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONMEL KN AND EXPERIENCE WITH THE PROPOSED FOUNDATION TYPE. CONSTRU- BE IN SCORDANCE WITH GENERALLY ACCEPTED INSTALLATON PRACT 9. FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING ABIO214.</li> <li>CLOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION IN 2005 MATERIAL SHALL BE REMOVED FROM FROM SHALL SHALL</li></ol>	WLEDGEABLE 7710N SHALL 10ES. 10E
2. THE UPGCHARE WUST VERTY THAT ACTUAL SITE SOLL PARAMETERS MEET OR EVCEED E. A. "NORUL" SOLL PARAMETERS AND THAT THE DEFTH OF STADDARD FUNCHIOLS ARE ADEOLUT SOLL PARAMETERS FEAST FEAST THE DEFTH OF STADDARD FUNCHIOLS ARE ADEOLUTE OF THE FAOST FEAST FEAST PEARTANTION AND/OF ZONE OF SEASONLE ADE REQUIRE VARIANTION ENTRY STREE. CONDUCTION ADD/OF ZONE OF SEASONLE ADE REQUIRE VARIANTION CONTINUE VARIAMETERS ARE NOT ADDALT AND FEAST ANTIVITY OF CONTINUE. SOLL ANAMADIST ARE NOT ADDALT AND FEAST ANTIVITY OF CONTINUE. SOLL ANAMADIST ARE NOT ADDALT AND FEAST ANTIVITY OF CONTINUE. SOLL ANAMADIST ARE NOT ADDALT AND FEAST ANTIVITY OF CONTINUE. SOLL ANAMADIST ARE NOT ADDALT AND FEAST ANTIVITY OF CONTINUE. SOLL ANAMADIST ARE NOT ADDALT AND FEAST ANTIVITY OF CONTINUE. SOLL ANAMADIST ARE NOT ADDALT AND FEAST ANTIVITY OF CONTINUE. SOLL ANAMADIST AND AND ADDALT AND ANTIVITY OF CONTINUE. SOLL ANAMADIST AND AND ADDALT AND ANTIVITY OF CONTINUE. SOLL ANAMADIST AND ADDALT AND	LOOSE CUTTINGS CONSETE SHALL BE PLACED IN A MANUER THAT WILL PREVENT SEGN CONCRETE SHALL BE PLACED IN A MANUER THAT WILL PREVENT SEGN STRENGTH OR DURABILITY OF THE FOUNDATION.	FREE OF EGATION OF THE
<ol> <li>FOLVDATION DESIGNE ACTORNACE COLUMNATIONS ENCONTRERU.</li> <li>FOLVDATION DESIGNE SASUME FIELD INSECTIONS WILL BERFORMED BY THE PURCHASER'S REPRESENTATIVE TO VERIFY THAT CONSTRUCTION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.</li> </ol>	C. THE TAL CUMPETE MAY DE VEL THOUTEL TAL IS VENTICAL DE TATITING SIDES OF EXANTION, FORMWORF, REINFORCING BARS, FO CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES CONCERTE FALL THROUGH MATER.	W WITHOUT MM TIES, SHALL
4. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNESS OTHERNISE NOTED. THE LATEST REVISION OF ACT 310, "BUILDING CODE RECOLIFEMENTS FOR REINFORCE CONCRETE" PROCEEDURES FOR THE PROTECTION OF EXAMINIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.	CONTRETE ATTLE TATCLE REALT NOTIFIES UNLIST OFFICE ATTLE FLET FU TO FLET NO FLET DE TOUNDATIONS. FORMS FOR PIERS SHALL BE REMO TO FLETING STRUCTURAL BACKFILL. CONSTRUCTION JOINTS, IF REQUIRED IN PIER MUST BE AT LEAST II CONSTRUCTION JOINTS, IF REQUIRED IN PIER MUST BE INTENTIONALLI DE ELON BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLI	ED PRIOR INCHES
5. ANCHOR BOLTS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A354 GRADE BC AND SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH).	ASSUMES NO OTHER CONSTRUCTION JOINTS. ASSUMES NO OTHER CONSTRUCTION JOINTS.	DESIGN OPED TO
7. CONCRETE MATERIALS SHALL ON FULLED ON ALL ANYMON DULIS. 7. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS .	DEALN WITH ALCHATED FINISH. AREA INSIDE LIMITS OF ANCHOR. BE LEVEL WITH A SCATCHED FINISH. 5. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" ()	OLTS SHALL
B. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTLIZED AND SHALL RESULT IN DUABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DUABLITY REQUIRENTS OF ACI 318 CMATERIA SHALL BE SATISTED ABSED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMAN. CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI (20.7 MPa) IN 28 DAYS.	MINIMUM. - FOR ANCHOR BLOCK TYPE FOUNDATIONS, THE PORTION OF ALL STEEL FROM TOP OF ANCHOR BLOCK TO GROUND LEVEL, SHALL BE COATED DESION ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER MEASINESS PERIODIC INSPECTIONS WILL BE PERFORMED OVER MEASINESS MUST BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIF.	ANCHORS, TH BITUMEN. HE LIFE OF OTECTION C CONDITIONS
<ol> <li>MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION WENDO UTLIZED OF 1/3 CLEAR DISFAVCE BEHIND OF BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2.3 CLEAR DISFAVCE PROVIDED WORKBLLITY AND WITHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OF VOIDS.</li> </ol>		-
10. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM AGIS GRADE GO UNLESS OTHERWISE NOTED: SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.		
11. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HADLING AND THROUGHOUT PLACEMENT OF CONCRETE.		
12. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS. 13. MINIMM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 mm) UNLESS 01HEMMISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 mm) MINIMUM COVER ON REINFORCEMENT.	710 REVISED NOTE #9 & #24 11/3/34 CSR /	AK WD XK
14. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76 mm) NOR BE LESS THAN 2 INCHES (51 mm).	No. & Revision Description & Date & Rev By & C THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT 6	(d By▲Appd By
15. SPACERS SHALL BE ATTACHED INTERNITTENTLY THROUGHOUT THE ENTIFIE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.	TO BE REPRODUCED. COPIED ON TRACED IN WHOLE OF THE UT ON PART WITHOUT ON WHITE CONSENT.	
16. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (200 mm) MAXIMUM LAYERS TO 952, OF MAXIMUM DRY DENSITY AT OFTIMUM MOISTURE (NOTENT IN AZCORDANCE WITH ASTM DE98. ADDITIONALLY, STRUCTURAL BACKFILL MIST HAVE, A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT	TITIONE BY Date TITION Trown: CSR 6/17/87 FOUNDATION MATERIAL SPECIF Theored: HA 1/6/88 INSTALLATION NOTES AND TOLI	CATIONS, RANCES
17. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT TOWER SITE.	100. Eng.: XK 1/6/98 10. Scies: AE 2/2/98	0120021







		I T X 78" ANCHOR BOLTS						ANCHOR BOLT SETTING	TEMPLATE I7101/TOP J WI			<del>o</del> 2									PLAN VIEW				0 <b>,</b>			NOTES	1. FOR ANCHOR AND FOUNDATION TOLERANCES	NO. ABIOZIA. 2. ALL ANCHOR BOLT SHALL MEET OF EXCEED ANCHOR BOLT PROJECTION	REQUIREMENTS OF ASTM A354 GR BC AND ARE HOOKED 180° AT THE BOTTOM.	3. WHEN FOUNDATIONS ARE DESIGNED BY RADDED ABLIO22-ABLIO22-ABLIO22 ABLIO22 - 12/10 - 22/4 75 OTHERS, IT SHALL BE THE RESPONSIBILITY REPRESED NOTE 2 00000 - 11 - 1000 - 15	OF THE PURCHASER'S FOUNDATION ENGINEER REVISED PLAN VIEW IL 10 INSURE THAT THE ANCHORAGES PROVIDED No. A Revision Description	ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT IN WITHING CONSULTING OF THE ANCHORAGES ARE NOT	LIMITED BY THE STRENGTH OF THE Securi MORE BY Date True: FOUNDATIONS. A FOR ANCHORE AT TELEVIATE OF ANCHORE AN CHORE AN CHORE AN CHORE AN CHORE AN CHORE AND AN CHORE AND AN CHORE AND AN CHORE AND	SEE DRAWING B730521. App. Exp.: 75 8-12-38	APP. Soluti AE B-12-88 ENG. FILE: DOWNING NO. , C990790 R.
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Z	16' 5 3/8	18. 2 1/4	13.11	21.7 13/16	7.8 3/4	9. 5 9/16	11. 2 5/16	13. 1 3/4	15. 3 11/16	17' 5 11/16	19. 7 11/16	21.95/8	23' 11 5/8	26. 1 5/8	28.3 9/16	31.6 9/16	34.99/16	38.01/2	41.3 1/2	44 6 7/16	47' 9 7/16	16' 3 15/16	19, 9 5/8	14. 7 3/16	18. 0 13/16	34 . 8 1/8	14' 8 9/16										
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YPE 2)	TOSIC: 1							7.8	7.B	8.7	9.2	11.8	16.7	18.4	20.1	27.6	31.4	35.4	42.7		CLEAR	YPICAL		
	VERT. BARS							10 .6	10 •6	10 .6	10 .6	10 .6	10 •7	12 .7	12 .8	8. 21	16 eB	16 •8	16 • 9	AXIS MITER		L I		
L) (1	7							2,6	5, Q	2,6	2.6	2,6	3,0	3.0	3.0	3,6	з. б	з, в	. 0.*		BARS 12 CENTERS, 12 CH WAY, CH WAY,	VIEW		
ND BE	×							4.6	4.6	5.0	5.0	6,0	6,6	2.0	7.3	о. <del>в</del>	в, 9	£.5	б.б	AN VI	1,525	ATION MAT		
ILL A	Q					•		0.11	0.11	0.11	12.0	12.6	14.0	14.0	15.0	16.0	16.0	17.0	17.0		₹ L	ELEV		
A A A	MIN FACE SPREAD							716	7.6	7.6	7,6	8,0	0.6	0,6	5,3	9.01	6.01	11'3	12.0	`	REBAR			
	CONC. YDS. NS) SQUARE						6.9	9.4	9.4	9.5	12.0	12.7	18.5	19.7	22.4	29.2	33. /	37.1	46.7	VERT. VERT. EQUAL		IEW		
	REG'D (CU. 3 FI. ROUND						6.3	8.7	8.7	8.8	10.8	11.3	16.3	17.3	19.9	25.6	29.4	33.4	42.0		r —,— т  -  -    -  -	ION V		
( I , 34	HOR. BARS						9,	<b>.</b>	9,	e,	9	9,	ŝ.	ءو	9.	9,	• 0	٠2			<u></u>	DRILLI		
D (TY	VERT. BARS						9 e	8 • 7	8 #7	8 •7	8.8	8. 01	12 +8	8• ZI	12 .8	16 •8	16 .8	16 .9	5. 12	VERT. (SEE CH FOR EXA OUAN.) OUAN.) OUAN.)		u -		
74 QN	U						2,0	2,0	0.2	2.0	2.6	2,6	3,0	3.0	3.0	3,6	3,6	3,6	4.0	HAT.				
IER A	۲						4.6	5. C	е 2, е	5. E	5.6	5' 6	6.3	6,6	7.3	۲. 9	а б	6.6	6.01			VIEW BELL		
"	0						в, О	е . 9	6,8	0.6	0.01	0.11	12.0	12.6	13.0	13.9	14.0	14.0	14.0			ATION		
	MIN FACE SPREA						6, E	8, E	8, Q	8, 6	в, 6	<i>B</i> , <i>G</i>	9.6	10.0	0.11	12.6	14.0	15.3	16.6	EE CHAR EE CHAR a' E YACT a' L' a' L' a' L' a' L' CIRCULA CIRCULA CIRCULA CIRCULA CIRCULA		DRILL		
1.2 4	MIN ANCHOF BOL T SIZE (NOTE 6)	N/A	N/A	N/A	N/A	N/A	5/8X42	5/8X42	5/8X42	5/8X42	3/4X4B	3/4X4B	7/BX60	7/BX60	7/BX60	7/8X60	1×78	1X78	1X78	2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>_</b>			
LIMITS FOR TYPES	ALLOW. SHEAR SHEAR (KIPS PER PER						4.0	6.0	6.0	8.0	10.0	10.0	15.0	15.0	15.0	20.0	25.0	25.0	35.0	E T <u>SUPER</u> T <u>SUPER</u> T <u>SUPER</u> TTOMER TTOMER TTOMER TTOMER TTOMER TTOMER	1-1-1-	) 이 ((		
	ALLOW. LEG LOAD (KIPS)	4.5	11.2	19.6	28.0	36.0	33.7	43.6	52.5	56.0	64.9	85.6	114.0	129.0	152.0	184.0	215.0	242.0	268.0		DUARE)	ION VI		
	ANCHOR ANCHOR BOLT SIZE ALL FND TYPES	(4) 5/8	(4) 5/8	(4) 5/8	(4) 5/8	(4) 5/8	8/2 (*)	(4) 7/8	(4) 7/8	(4) 7/8	1 (4)	1 (4)	(6) 1	(6) I	(6) 1	1 (8)	(8) /	1 (8)	1 (8)	PLA PLA PLA PLA PLA PLA PLA PLA		<u>ELEVAT</u> <u>PIER</u>		
	10. 1.0. NO.	FI	F2	F3	F4	F5	F6	F7	FB	63	F10	F11	F12	F13	F14	F15	F16	F17	F18		-1			



**Foundation Information** 









**Foundation Information** 

























**Foundation Information** 





## GUYING INFORMATION



Products for A Growing World of Technology


	WIRE SIZE	ANCHOR ROD	TURNBUCKLE	THIMBLE						
		GAR30	5/8TBE&J	5/16THH						
	3/16 FHS	GAC303,305	3∕8TBE&E	5/16THH						
		GAC3455	I/2TBE&J	5/16THH						
		GAC5655	5/8TBE&J	5/16THH						
		GAR30	5/8TBE&J	3/8THH						
		GAC303,305	I/2TBE&E	3/8THH						
		GAC3455	I/2TBE&J	3/8THH						
		GAC5655	5/8TBE&J	3/8THH						
		GAR30	5/8TBE&J	7/16THH						
		GAC303,305	5/8TBE&J	7/16THH						
	5/16 EHS	GAC3455	5/8TBE&J	7/16THH						
		GAC5655	5/8TBE&J	7/16THH						
		GAR30	5/8TBE&J	1/2THH						
	3/8 EHS	GAC3455	5/8TBE&J	I/2THH						
		GAC5655	5/8TBE&J	1/2THH						
NOTE: THIS CHART APPLICABLE FOR E.I.A. REV. E GUY CHARTS ONLY										
ADDED GAC303, 305 TO 5/16EHS 7/25/89 JHD WDU TS HIS DRAWING IS THE PROPERTY OF UNR-ROHN. IT IS NOT TO BE REPRODUCED.										
COPI	OPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.									
CKE	KED BY: WRF DATE: 10/1/87 TITLE:									
ROV	ED BY: RAM D	ATE: 10/1/87	GU							
EΝ	IUMBER:		HARDW	ARE CRARI						

A871382 R2

DRAWING NUMBER:













BILL OF MATERIAL	DESCRIPTION DWG. NO.	3-HOLE EQUALIZER P'S. C 660416	34"X 2/4 BOLT ASS'Y	1/2" X 2" BOLT 185'Y	PLASTIC BAG 6"X9"	5-HOLE EQUALIZER & 'S. C 6604/6	34"X 2/4" 80LT ASS Y.	1,5°X 2" BOLT ASSY	PLASTIC BAG 9"X/J"	56"X18"WALL ANCHOR	5"X5"X 1/4"RETAINER P.S.		EQUALIZER PLATE NIT	WALL AWALTON ASS I	EQUALIZER PLATE KIT	WALL ANCHOR ASS'Y	55'Y. WAS 1/2" LG. 9.51.88 14.2	10.15.00 4.2.3	F MATERNAL 6-2-77 13.2	7-6-76 0.4	DESCRIPTION DATE BY	REVISIONS		ROHN		Door Auguro	FROOF ANCHUR	PERTY OF ROMN. IT IS NOT TO BE FILE NO. TRACED IN WHOLE OR IN PART	MT.	/-77 UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES.	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/
	QUAN. PART NO.	2 EP25 3	1 210048GA	3 210020GA	1 720004	2 EP25 5	1 2100485A	5 210020GA	1 720006	1 260004P	Z K466		1 EP 2534 3	CZ MUM T	1 EP 2534 5	1 GAW 25	R4 1/2 X2" 8017 A	R3 ADDED NUTE	RZ ADDED BILLS O	R1 ADDED NOTE	NO.					TTTLE   //	NNALL	THIS DRAWING IS THE PRO REPRODUCED, COPIED, OR		DWN. BY J.H.D. DATE 6-2	CK'0. N. DATE DATE	Man "3.6-
		EP 2534 3		+(1) - (2)			EP 2534 5		- 36 M/3		2" - " " " - " - " - " - " - " - " - " -	GAW 25 - 5 ×3 ×4 PLATED(P/W KA66)	UPIN EP 2534 5	EQUALIZER PLATES					BETWIECH PLATED /4 "		<u>ZMPORTANT</u>		DAWE 23 37 RESULTANT OF THE GUT WIRESJAND NOT IN	A POSITION THAT COULD CAUSE BENDING	1 A NOWN, CONTRACT THE UNARCO-ROHN		NOTE: DUE TO VARIABLES INVOLVED IN ROOF	AND OTHER INSTALLATIONS, IT SHALL BE TH. CUSTOMERS OR INSTALLER'S RESPONSIBILIT	TO PROVIDE STRUCTURALLY ADEQUATE SUPPOR FOR DIERÉANCHOR CONNECTIONS. IT MAY ALSO	BE NECESSARY FOR THE CUSTOMER OR	LON EP 2534 3 MISTALLER TO SECURE THE SERVICE OF A MICLUDES BOLT ASS'Y MISTALLATION COMPLES WITH LOCAL	EQUALIZER PLATES BUILDING CODES,













# INSTALLATION INFORMATION



# ROHN INSTALLAION

**Base:** See appropriate ROHN catalog information. The first 10' section should be leveled, plumbed and temporarily guyed or braced while pouring the concrete. Do not pull tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

**Height of Tower and Bracket Uses:** See appropriate ROHN catalog information. (Note: Tighten the house bracket U-Bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-Bolts.)

**Bolts:** Nuts and bolts are located in tower legs on ROHN#20 and #25 towers. Installers are urged to use a 10" lining-up punch that tapers from about 3 mm to 6mm over 159 mm length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

**Miscellaneous:** Installation is greatly hastened and simplified with the use of an erection fixture. Do not us it to lift more than the weight of one tower section or any part of a section at one time. Erection fixtures are not intended to be used for lifting individuals. If the antenna is to be fixed and a set screw used in the mast housing, or if a rotator is to be mounted on a short length of mast above the tower top section, install a TB50 tower bushing at the bottom of th mast housing to center the mast in the mast housing. These bushings are "peened" in place. If the rotator is to mounted inside the top section of the tower, do not install a TB50 tower bushing at the bottom of mast housing. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower. Towers are not to be used as ladders.

**Caution:** Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more that 40' of #45 tower, 30' of #25 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering towie on any type of hinge base or hinge section, the loads applied for hinging the towers must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

Roof installations have been excluded from the catalog. Local engineers must be consulted to determine adequate base and anchor details and wind loading criteria for all roof type installations.

Engineering services are available. See appropriate price sheet in a ROHN catalog.

Specifications subject to change without notice.

Towers and tower sections depicted in this catalog are examples presented as a reference guide. ROHN custom designs each individual tower for each specific installation from a large inventory of materials. Sections and parts in this catalog may be selected as part of that design.

The information contained herein 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 problems arise which are not covered sufficiently herein for the purchasers purposes, the matter should be deferred to the ROHN home office.

Do not install towers and masts near power lines. All towers and masts should be installed twice the height of the installation away from power lines since every electrical wire must be considered dangerous.

ROHN recommends anti-climb sections on all towers to prevent unauthorized persons from climbing towers.

# All tower s and masts should be installed and dismantled by experienced and trained personnel.

All types of antenna installations should be thoroughly inspected by qualified personnel and remarked with hazard and warning labels at least twice a year to ensure safety and proper performance.

# All antenna installations must be grounded per local and national codes.

The mixing of co-called interchangeable copies of ROHN products is dangerous and voids all data or warranty supplied by ROHN. Materials used by the so-called copies 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 item may endanger the lives of your customers and cause serious tower failures and financial misfortune for all concerned.



# EIA222 TOWER STANDARDS



# TIA/EIA STANDARD

Structural Standards for Steel Antenna Towers and Antenna Supporting Structures



June 1996

TELECOMMUNICATIONS INDUSTRY ASSOCIATION

## STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES **TABLE OF CONTENTS**

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This standard does not purport to address all safety problems associated with its use or all applicable regulatory requirements. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

(From Standards Proposal No. 3278, formulated under the cognizance of the TR-14.7 Structural Standards for Steel Antenna Towers and Antenna Supporting Structures Subcommittee) Published by Telecommunications Industry Association 1996, Standards and Technology Department, 2500 Wilson Boulevard, Arlington, VA 22201 Price: Please refer to current Catalog of EIA, JEDEC, and TIA Standards and Engineering Publications or call Global Engineering Documents, USA and Canada (1-800-854-7179) International (303-397-7956)

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## ANTENNA SUPPORT QUESTIONNAIRE



## Form No. 95-2793T

<u>ROHN</u> ® <u>ANTENNA</u> <u>S</u> Please complete or check all applicable spaces.	UPPORT STRUCTURE QUEST	IONNAIRE						
Cuctomor:	Talanhana No :	Fax No ·						
Addross:	Citu:	7in:						
Address.	City:							
luxer site.	CliyCounty.	JIUIE						
	Telephone No.:	rux nu.:						
This structure is for:  Material Only Material & Installation (Ref. 1997)	This structure is for:  Material Only Material & Installation by ROHN Union Labor Non-Union Labor (ROHN assumes normal site & access)							
Design assumes normal soil and rigidity per E.I.A., 80% guy radius, and leve	el ground.							
Foundation Installation: 🗆 By Others 🛛 By ROHN Provide	e sketch or azimuth of one leg							
Type of Structure: 🗆 Guyed 🛛 Self-Supporting 🗆 Brackete	ed 🗆 Roof Mounted 🗆 Concrete Pole	□ Steel Pole						
Structure Height: (Feet/Meters) Building Code:								
Base of Structure: Ground Roof at ft. above grade								
Design Load: Wind Basic Other Describe Ice								
Operational Load: Wind Ice								
EIA Operational Requirements:  Yes  No  Other Explain								
Step Bolts or Ladder:       None       Quantity:         Inside       Inside         Outside       Inside         Step Bolts       Inside	Face  Standard Corner  Heavy Leg  Other							
Safety Device:  Kohn-Loc  Other Explain								
Obstruction Marking and Lighting:  None								
Aircraft Warning Lights:       Yes       No       By Others       Explain								
Paint: 🗆 FAA 🔹 Factory applied 🔅 Sufficient Paint for Field Application								
Vertical Waveguide Support: 🗆 None 🔅 Ladder 🔅 Brace Brackets 🔅 Conduit 🔅 Other								
Location of Vertical Waveguide Support: (If Preference)								
Waveguide Bridge: Provide sketch or explanation								
Platforms: 🗆 Not Required 🛛 Required (Provide elevation and description.)								
Lighting Protection: 🗆 None								
Lightning Rod Required: 🗆 No 🗆 Yes If yes, quantity If yes, extended type? 🗆 Yes 🗆 No Downlead wire size								

\_\_\_\_\_

## **ROHN® ANTENNA SUPPORT STRUCTURE QUESTIONNAIRE**

Antenna Information: (UHF/VHF mounts must state type of mount and length of side arm, if applicable. Attach a separate sheet if necessary.)

Quantity	Model No., Size and Manufacturer	Freq. *	Elev. (2' TOL. U.N.)	Azimuth if applicable	Ante Yes	Antenna Mount Required Yes No By Others (Describe)		No. of Tiebacks	Ice Shield	Lines: Size Model & Qty.

\*Frequency of microwave dishes only.

Will ROHN be responsible for coax elbow complex or details? 🗆 No

#### The following data is required for special foundation designs:

- Allowable bearing capacity
   Boring log showing composition and variation with depth
   Water table depth and variation
- 4) Type of foundation recommended (pile, spread footing, mat, etc.)
- 5) Uplift recommendations pertinent to the type or types of foundations recommended
- 6) Consistency of soil:
  - A. Unconfined compression strength of cohesive soil (clay) B. Standard penetration blows per foot

  - C. Rock quality designation for rock
- 7) Allowable passive pressure in pounds per sq. ft. depth (PSF/FT)
- 8) Backfill considerations
- 9) Factors of safety included in allowable design values

#### Note:

1) Before any soil boring work begins, the soils engineer should contact ROHN for tower reactions, preferred boring locations, and any other data the soils engineer may require. 2) A detailed soils report, with proper foundation recommendations, will produce the most economical and safe foundation design.

#### Additional information, comments, or special requirements:

Purpose of Tower: (Check One) Broadcast CATV Cellular Land Mobile Microwave PCS Wireless Cable Other (Please Specify)	
<b>Drawings:</b> Are Are Not Required with Quotation	
Prices requested are: 🗆 For budgetary purposes 🗆 Firm (Check One)	
Submitted by:	Date:

Return completed form to: ROHN, 6718 West Plank Road, Peoria, Illinois 61604 USA



TERMS & CONDITIONS





## TERMS AND CONDITIONS OF SALE

**General** – In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.
- All delivery prices are FOB our point of manufacture, unless otherwise • specified.
- The agreement and language herein shall be construed and enforced in accordance with the laws of the Province of Ontario and the federal laws of Canada, applicable therein as of the date of e-mail confirmation of your order.
- A finance charge, at the monthly rate of 2%, will be assessed on past due invoices where allowed by applicable law.

Delay – We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

Title and Risk of Loss - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

Terms - Terms are net 30 days from invoice date on approved credit.

Credit Approval – Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform any work, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

Taxes – When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

Warranty - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

Buyer's Remedies - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S

NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.

Cancellation - Orders accepted by us are non-cancellable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation. In no event shall this fee be less than 25% of the price of the materials or services cancelled.

Packaging for Shipment – The pricing for our products includes packing for standard ground domestic shipments, such as motor freight or package carriers. When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

Freight - Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s). Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

Customer-Specified Shipping Instructions and Freight Terms – We shall comply with the customer-specified shipping instructions and freight terms, provided they are stated in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

#### **Return of Material**

- Advance authorization must be obtained and the returned products accompanied by a Return Authorization (RA) number.
- When authorized, the products must be returned within 90 days after the shipment date, in the original package, if any, and otherwise be in new condition. Products are to be returned with the freight charges prepaid.
- When the above conditions are satisfied and the products are accepted by us, a credit will be issued for the products, less a 25% restock charge.

Shortage and Damage Claims - All claims of shortages and damage must be filed within seven days of receipt of material.

Engineering Terms & Conditions – All products shown in our catalog are intended to be used by personnel who are qualified, trained and experienced in the design and installation of communication structures and installations. A licensed professional engineer familiar with these structures must be consulted to perform thorough structural analysis prior to any installation. Please contact us if you wish to perform these types of analyses. Prior to installation, structures must be at least visually inspected for corrosion by personnel experienced in that field.

Prices and specifications are subject to change without notice.



catalogsales@radiancorp.com www.radiancorp.com

Toll Free +1 866 RADIAN4 (723-4264) Fax +1 866 RADIAN0 (723-4260) Fax +1 866 RADIAN0 (723-4260)





## TERMS AND CONDITIONS OF SALE

 All quotation, proposals, prices, or other terms are made for acceptance within 60 days (after 60 days, prices in effect at time of shipment will apply) and shipment within 60 days of purchase order date, unless otherwise stated. They are subject to change without notice, however, we invite 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. We 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 customer, 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 any 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 20% of the purchase order price. If customer 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 20%, 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, 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 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 of 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 or 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 the Buyer's failure to comply with said laws, ruled, and regulations in connection with the performance of this sale.

The above warranty applies only to items manufactured by Rohn. Items not manufactured by Rohn are warranted and 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 guaranty.

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 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.

 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 loading criteria (wind load, antenna load, geotechnical information, etc.) based on site-specific data in accordance with ANSI/EIA-222 (latest revision). This information must be verified by others prior to installation.

**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 customer or customer'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. Customer 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 customer will be responsible for any extra charges incurred on prepaid shipments. Any special item ordered and shipped from Reno, Bessemer, Frankfort, or Bridgeport will incur a 10% inbound freight, plus 7% warehouse and handling charge, and will be shipped F.O.B. shipping point.

**20.** A service charge not to exceed 1-11.2 % per month or maximum allowable per State law will be billed on all accounts not paid within 30 days of invoice date.

 ${\bf 21}.$  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.** Any purchase order, which is placed under a "hold order" for over five (5) days by the customer for any reason, will be subject to a 1% per month storage charge, plus a 1-11.2 % per month interest charge for a total of 21.2 % per month from the date of the hold until the order is released.

**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 customer.

Prices and specifications are subject to change without notice.



# SAFETY INFORMATION





#### DO NOT ATTEMPT TO INSTALL OR DISMANTLE ANY ROHN PRODUCTS UNTIL YOU HAVE READ AND UNDERSTOOD THE INFORMATION IN THIS DOCUMENT.





## **ELECTROCUTION HAZARD**

**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. See inside of this brochure for more information.

## WARNING SIGNS REQUIRED

This notice sign must be attached to all poles, towers and bases in a location which is conspicuous and readable from the ground so that all personnel are notified and warned. On large self-supporting towers, signs must be attached on all three legs (if they are climbable) or on the ladder. Aluminum wire is furnished for attaching signs. Radian recommends you check frequently to make sure the sign has not been removed. These 6" x 9" signs may be ordered prepaid for \$6.00 each. Specify part numbers ACWS.

**Tower Erectors** - Please see that these signs are attached per the instructions above before leaving the site.



## FALL HAZARD

**Guyed 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 AND PRECAUTIONS**

IF YOU NEED HELP FROM RADIAN

Field technicians, warning labels, catalogs, guy charts, etc. are available from Radian.

IF YOU ARE SELLING ROHN PRODUCTS

Due to government regulations, be sure you and your customers are informed as to proper use when purchasing any antenna supporting structure.

#### **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 Radian. Materials used by the so-called copies are not the same quality and have not been tested or engineered by Radian to conform to the same quality standards. Mixing of ROHN items may endanger lives and cause serious failures and financial misfortune for all concerned.

## WHO SHOULD INSTALL OR DISMANTLE ROHN PRODUCTS

Installing, dismantling and rigging ROHN products requires specialized skills and experience. Information supplied by Radian 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.

Radian 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

Radian does not recommend or warrant in any way the use of used materials. The use of used materials voids all warranties set forth by Radian 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**

Radian recommends anti-climb sections 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 once a year to ensure safety and proper performance.

Radian 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, anticlimb 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. Radian cannot be responsible for any omission at any time.

#### **ABOUT OSHA**

Due to the Occupational Safety and Health Act regulations, parts are available incorporating features which will permit a safe product.

It is a policy of Radian 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

Towers and poles may or may not include step bolts. Step bolts are supplied as a convenience during construction.

If your structure has step bolts, the spacing at the section joints may not be consistent with the spacing throughout the structure. If this condition presents any hazard, the step bolts must be removed. For proper safety Radian recommends a ladder and/or safety climbing device on towers and poles.

Radian 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.

### **CONSUMER WARRANTY**

Seller makes no warranty of any kind, expressed or implied, and Buyer assumes all risk and liability resulting from the use of ROHN products, whether used singularly or in combination with other products.

Seller makes no warranty of merchantability of the products or the fitness of the products for any purpose.

Seller neither assumes nor authorizes any person to assume for Seller any other liability in connection with the sale or use of its products sold, and there are no oral agreements or warranties collateral to or affecting any sale.

The invalidity of any particular term or provision of this disclaimer shall not affect the validity of the remaining terms and provisions of the disclaimer and sales agreement.

#### Inspection and Maintenance Manual

The Radian Inspection and Maintenance Manual, available from Radian for \$15, is a guide to help maintain your installation.

Section 1 of the three part manual includes information and directions on performing tower maintenance. Areas include safety precautions, paint, corrosion protection, connections, guy wires, insulators, welds, lighting, conduit and grounding.

Section 2 includes the drawings and check lists required to conduct an organized and thorough inspection of the structure. A second copy of all maintenance forms is included.

Section 3 provides room for special notes and contains drawings, specifications, and component lists for ROHN Lighting Equipment.

#### INSTALLATION AND 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**!

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.

6. If the assembly starts to drop, get away from it and let it fall. Remember: Antennas, masts, towers, cables, metal guy wires 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 from the antenna. Have someone call for medical help.

# CONSIDERATIONS IN ERECTING TOWERS AND 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 can save many 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 base and support (such as guy wires) you will need.

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 Personal Communications Foundation believes that the following steps will help make sure you have a safe and 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! Paying \$10.00 to \$25.00 for an expert to inspect the foundation and finished installation is the cheapest insurance you can possibly buy! 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 on the height of buildings or other structures of 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.

This information has been adapted from the PERSONAL COMMUNICATIONS FOUNDATION 10960 Wilshire Boulevard, Suite 1504 Los Angelos, CA 90024