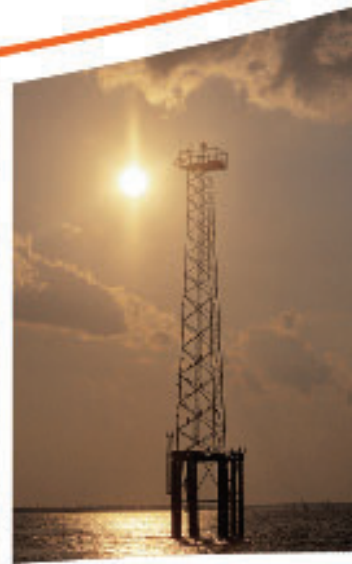


SELF-SUPPORTING TOWERS





STANDARD G-SERIES SELF-SUPPORTING



G-SERIES SELF-SUPPORTING

GENERAL USE

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

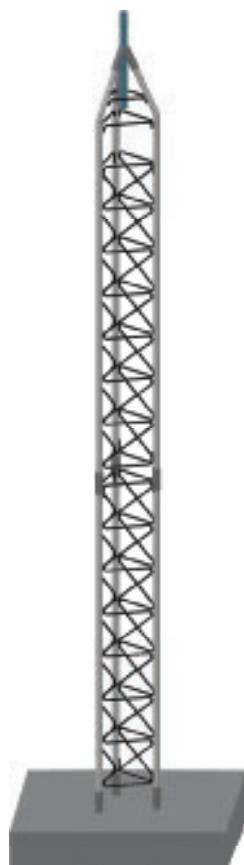
FEATURES

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

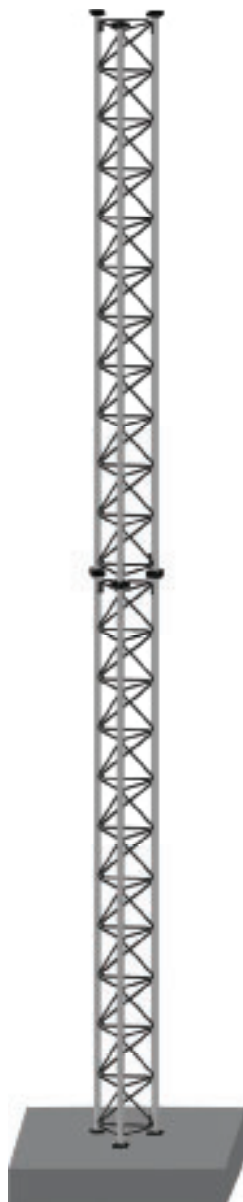
KITS

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

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



Typical Self-Supporting
25G, 45G and 55G Tower
(Tapered top available
for 25G & 45G only)



Typical Self-Supporting
45GSR and 65G Tower

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

G SERIES

REV. F ALLOWABLE ANTENNA AREAS (SQ. FT.)

70 MPH
Fastest Mile

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

80 MPH
Fastest Mile

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

90 MPH
Fastest Mile

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

NO ICE

Note: Antenna areas, ft.², assume all round antenna members.

**G SERIES****REV. G EFFECTIVE PROJECTED AREA (SQ. FT.)****90 MPH**
3-Second Gust

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

100 MPH
3-Second Gust

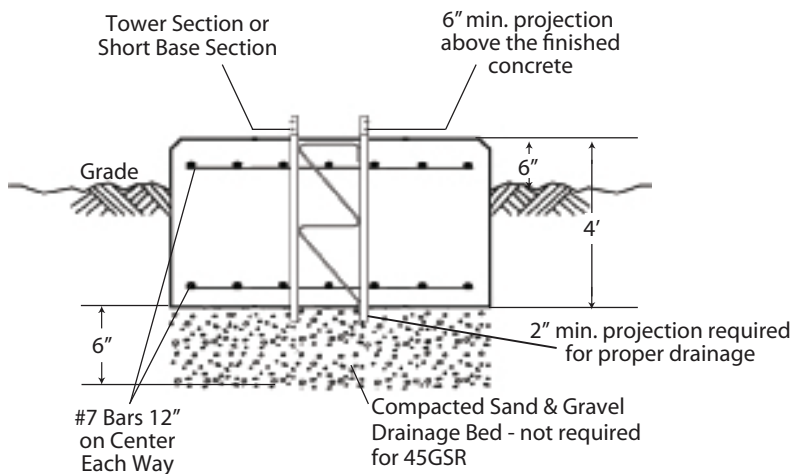
100 MPH 3-Second Gust Wind Speed															
Height	25G			45G			45GSR			55G			65G		
	EPA		Part No.	EPA		Part No.	EPA		Part No.	EPA		Part No.	EPA		Part No.
	Exp. B	Exp. C		Exp. B	Exp. C		Exp. B	Exp. C		Exp. B	Exp. C		Exp. B	Exp. C	
10'	20.7	16.4	25SS010	47.4	39.5	45SS010	82	66	45SR010	78	63	55SS010	95	95	65SS010
20'	14.0	9.9	25SS020	23.2	16.9	45SS020	74	55	45SR020	43	32	55SS020	95	95	65SS020
30'	5.3	2.2	25SS030	9.7	4.8	45SS030	66	43	45SR030	24	14	55SS030	81	55	65SS030
35'	2.1	-	25SS035	5.1	0.7	45SS035	59	38	45SR035	17	8	55SS035	61	40	65SS035
40'				1.2	-	45SS040	46	30	45SR040	10	3	55SS040	47	29	65SS040
45'							35	22	45SR045	5	-	55SS045	35	20	65SS045
50'							27	15	45SR050				26	13	65SS050
55'							20	9	45SR055				17	6	65SS055
60'							13	4	45SR060				11	1	65SS060

110 MPH
3-Second Gust

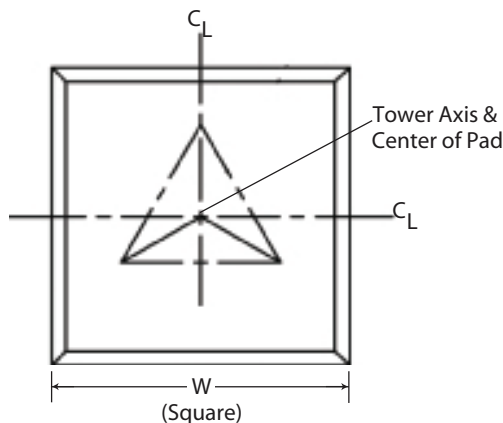
110 MPH 3-Second Gust Wind Speed															
Height	25G			45G			45GSR			55G			65G		
	EPA		Part No.	EPA		Part No.	EPA		Part No.	EPA		Part No.	EPA		Part No.
	Exp. B	Exp. C		Exp. B	Exp. C		Exp. B	Exp. C		Exp. B	Exp. C		Exp. B	Exp. C	
10'	16.5	12.7	25SS010	39.4	31.9	45SS010	67	53	45SR010	63	51	55SS010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

Note: Antenna areas, ft.², assume all round antenna members.

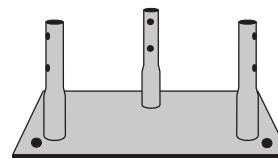
SELF-SUPPORTING G-SERIES FOUNDATIONS



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



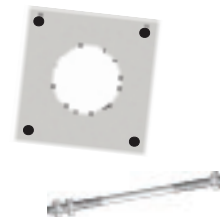
PLAN VIEW



CONCRETE BASE PLATE WITH ANCHORS
25GSSB

FOR USE WITH SELF-SUPPORTING 25G TOWERS.

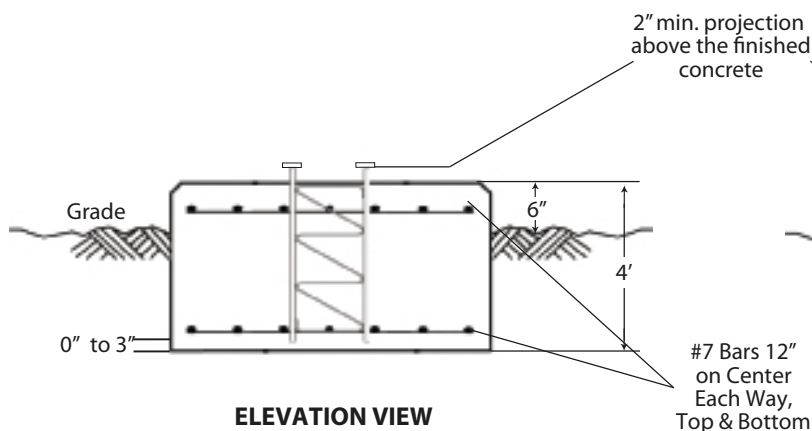
ALTERNATIVE TO USING SHORT BASE.
BASE BOLTS & TEMPLATE MUST BE ORDERED SEPARATELY.



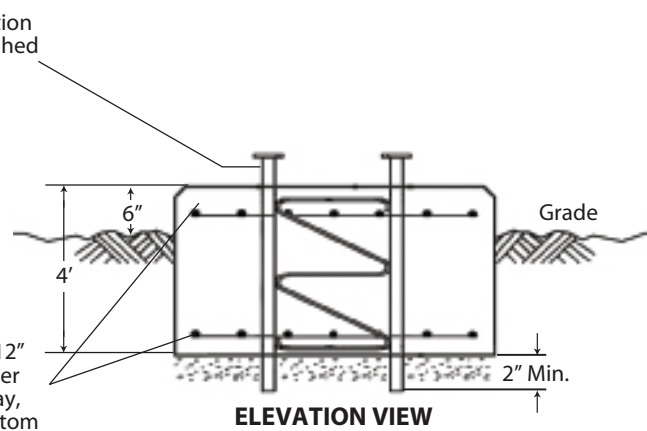
BASE BOLTS & TEMPLATE
KH8175A

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

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



ELEVATION VIEW
45GSR
SELF-SUPPORTING TOWER FOUNDATION



ELEVATION VIEW
65G
SELF-SUPPORTING TOWER FOUNDATION



SELF-SUPPORTING G-SERIES DESIGN NOTES

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

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

NOTES



A tall, slender lattice tower stands in the center of a cornfield. The foreground is filled with the silks of corn plants, and the background shows a cloudy sky. The entire page is overlaid with horizontal lines for notes.



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

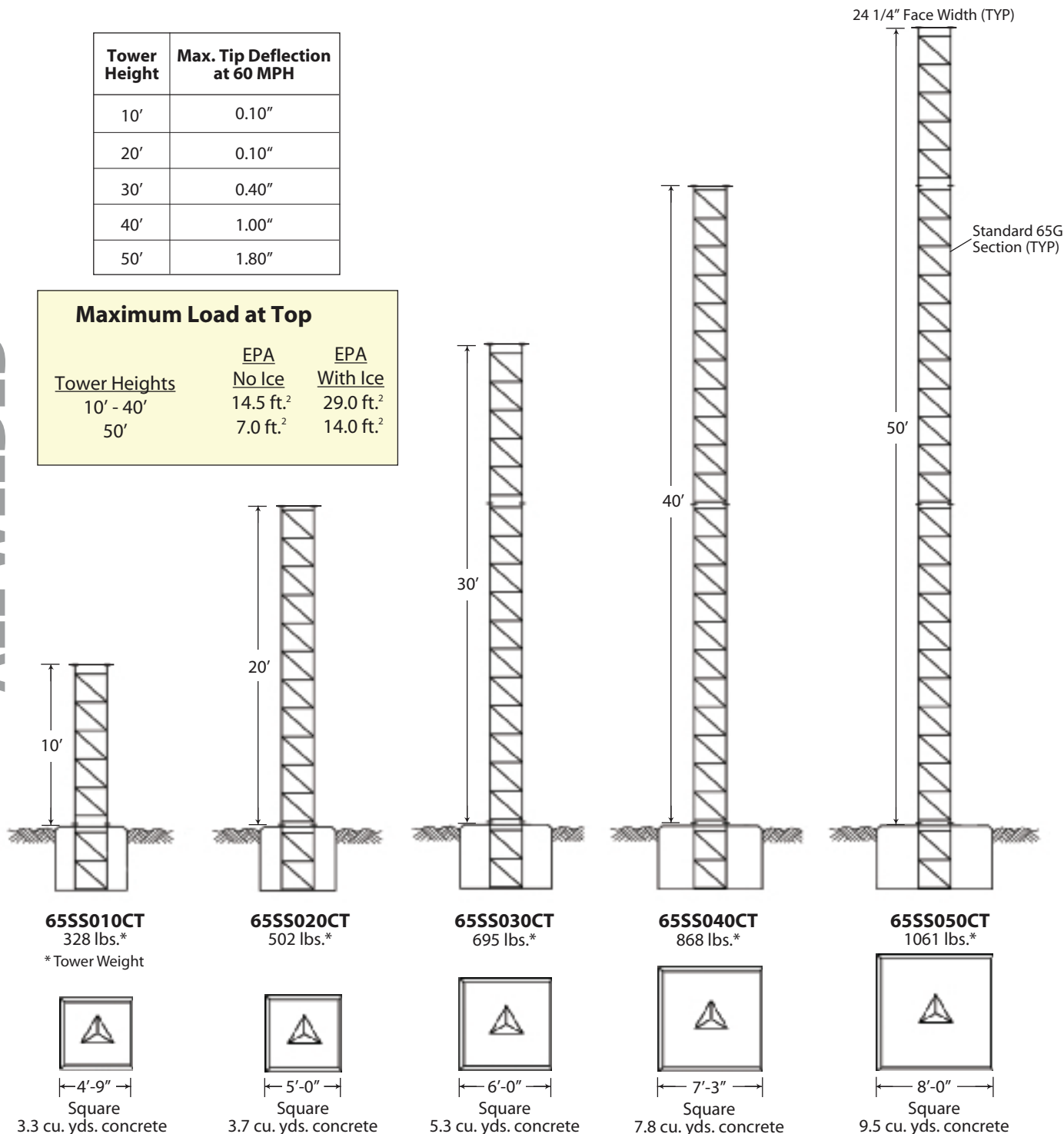
REV. G: 110 MPH 3-SEC GUST WIND SPEED (NO ICE),
40 MPH 3-SEC GUST WIND SPEED (3/4" ICE),
CLASS II, EXPOSURE C, TOPO CATEGORY 1
SEISMIC COEFFICIENT $S_s \leq 1.0$

Tower Height	Max. Tip Deflection at 60 MPH
10'	0.10"
20'	0.10"
30'	0.40"
40'	1.00"
50'	1.80"

Maximum Load at Top

Tower Heights	EPA No Ice	EPA With Ice
10' - 40'	14.5 ft. ²	29.0 ft. ²
50'	7.0 ft. ²	14.0 ft. ²

ALL WELDED



Includes short base section, tower sections, Rev G grounding material and 3/16" top mounting plate with attachment hardware.

Per Rev. G requirements, any structure greater than 10' requires a climber safety device.

Please see page 173 for ordering information.



STANDARD VG SELF-SUPPORTING CAMERA TOWERS (field bolted)

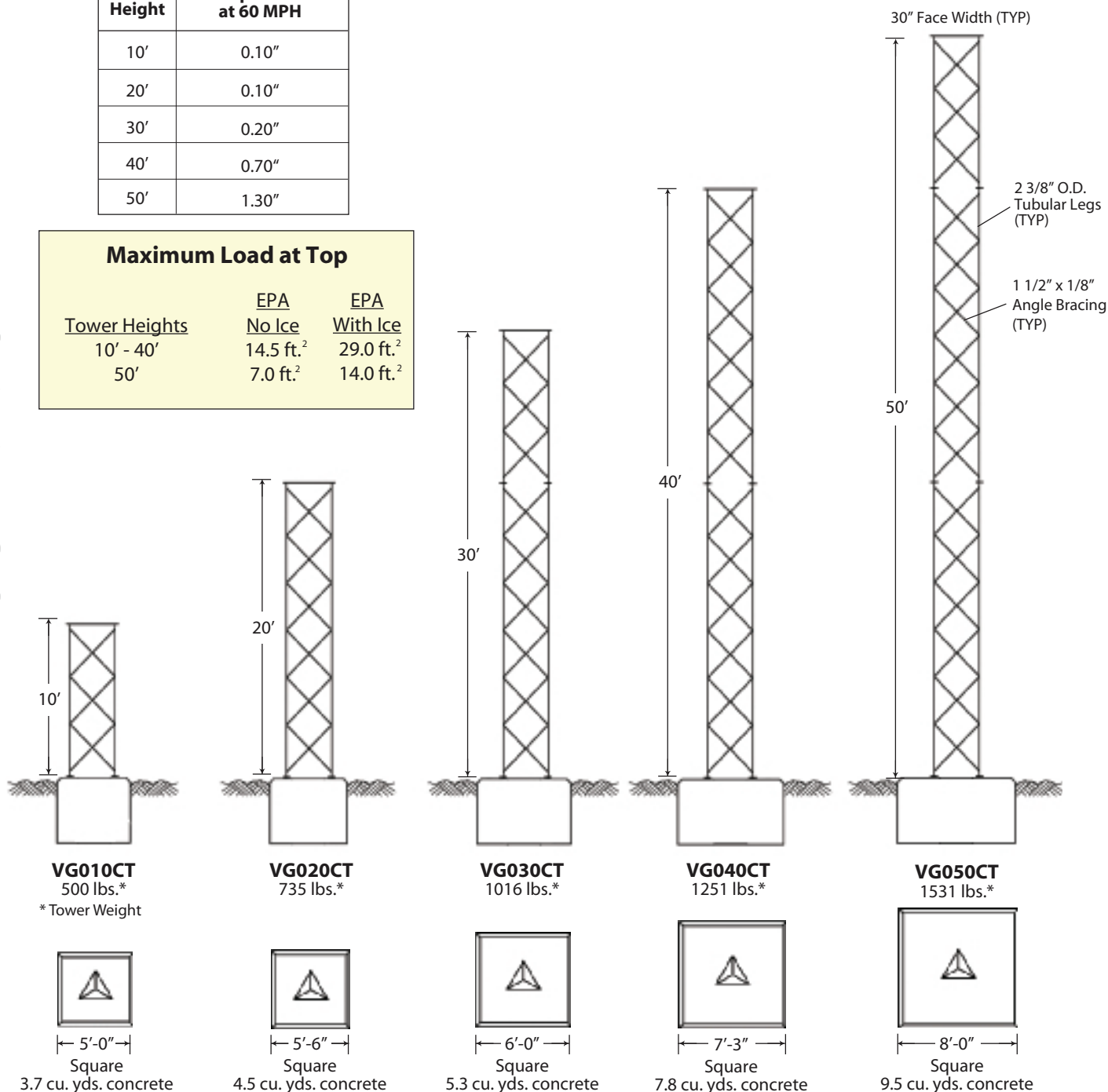
REV. G: 110 MPH 3-SEC GUST WIND SPEED (NO ICE),
40 MPH 3-SEC GUST WIND SPEED (3/4" ICE),
CLASS II, EXPOSURE C, TOPO CATEGORY 1
SEISMIC COEFFICIENT $S_s \leq 1.0$

Tower Height	Max. Tip Deflection at 60 MPH
10'	0.10"
20'	0.10"
30'	0.20"
40'	0.70"
50'	1.30"

Maximum Load at Top

Tower Heights	EPA No Ice	EPA With Ice
10' - 40'	14.5 ft. ²	29.0 ft. ²
50'	7.0 ft. ²	14.0 ft. ²

KNOCKED DOWN

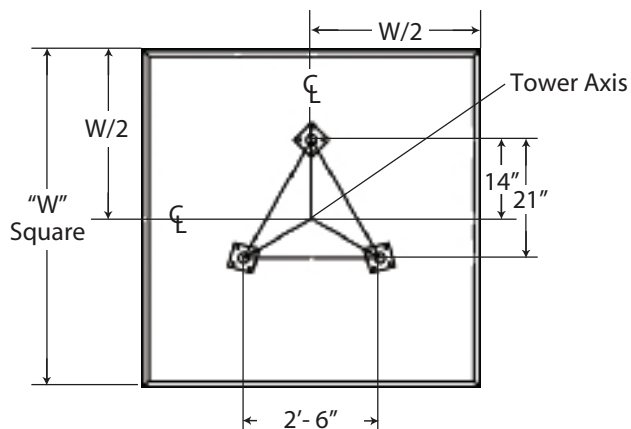


Includes anchor bolts, templates, tower sections, Rev G grounding material, 1/2" top mounting plate with attachment hardware and step bolts.

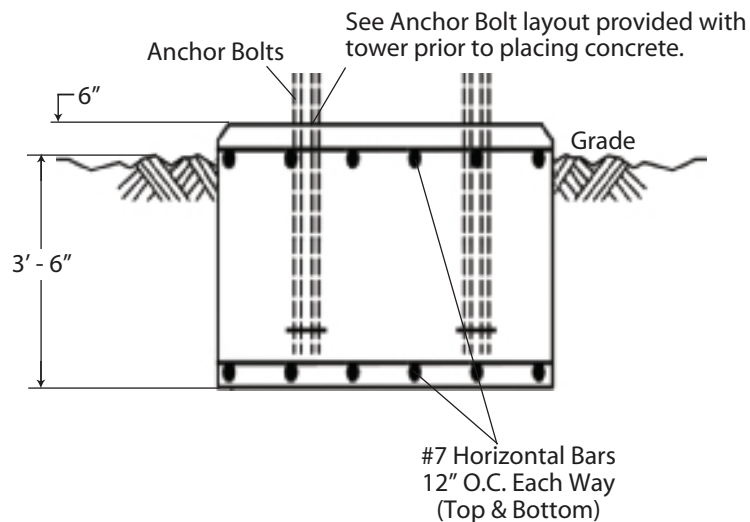
Per Rev. G requirements, any structure greater than 10' requires a climber safety device.

See page 175 for ordering information.

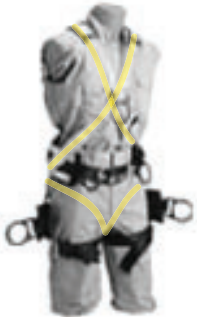
VG CAMERA TOWERS STANDARD FOUNDATION DETAILS



See tower elevation page for "W" dimensions.



ACCESSORIES

 ANTI-CLIMB PANELS VW917A ORDERED SEPARATELY	 CLIMBING HARNESS TTFBH-4D JOURNEYMAN HARNESS TTFBH-C/P PROFESSIONAL HARNESS	 SAFETY CABLE SLIDER WITH CARABINEER TT-WG-500-W/SMC	SAFETY CABLE SYSTEM TT050SSL FITS ALL TOWER HEIGHTS
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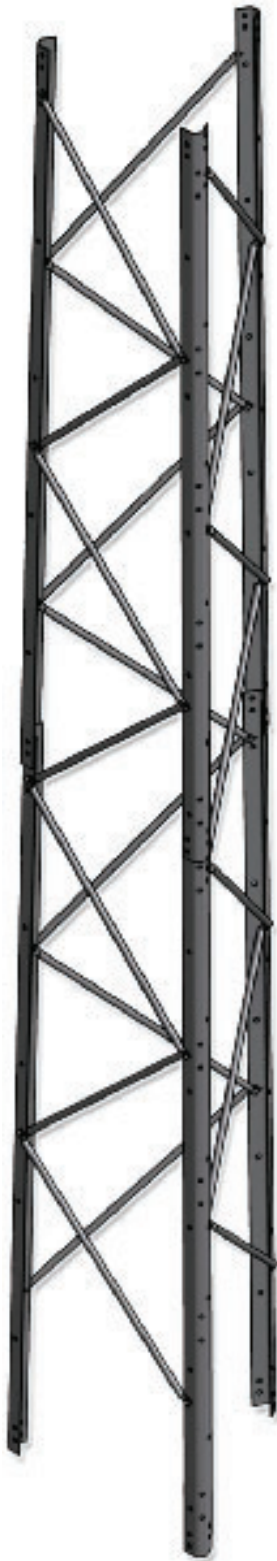
GENERAL NOTES

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

Refer to pages 147-153 for Foundation General Notes.



STANDARD RSL SELF-SUPPORTING TOWERS (field bolted)



The all new RSL
COMPLETELY REDESIGNED

GENERAL USE

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

FEATURES

- Available in heights from 20' up to 100'
- U-shaped legs allows for simple lap splice connection
- Available in standard and heavy models
- Pre-punched holes for attachment of safety climb systems, mounting kits, etc.
- Braces for each section are the same length, while bolt lengths are standard throughout the tower
- Tower material is hot-dip galvanized
- Assembly drawings provided with tower
- Top closing angle standard with each tower package

Optional items are available and may be ordered separately:

- Step Bolts
- Safety Climbing System*
- Top Post
- Anti-Climb Brackets
- Multiple Mounting Kits
- Grounding kit
- Top Plate
- Accessory Shelf
- Waveguide Brackets
- Lightning Rod

For more information, please visit
our website: www.rohnnet.com

**Per Rev G requirements, any structure greater than 10'
requires a climber safety device.*

ORDERING INFO

1. Foundation bases must be ordered separately.
2. All accessories must be ordered separately including step bolt kits, safety climb systems, climbing harness with slider, grounding kits, lightning rods, top plate, top mast, mounting kits, W/G brackets, anti-climb assemblies, etc.
3. ROHN standard RSL tower kits are supplied with lock washers as nut locking devices. Pal nuts (P), anco nuts (A) and tri-loc nuts (T) are alternative nut locking devices that may be obtained by adding the indicated suffix to the standard RSL tower kit Part Number. (Note: nut locking devices are required in accordance with ANSI/TIA-222-G.) *Example: RSL100L10A for Anco Nuts.*
4. All three tower legs in each section have provision to install step bolts and a safety climb system. When step bolts are desired, one step bolt kit must be ordered for each section of the tower. Increase the number of step bolt kits accordingly when step bolts are desired on more than one tower leg of a section.

DESIGN NOTES

1. The suitability of a ROHN standard RSL tower kit and standard foundation for a specific application must be verified by the purchaser based on site-specific data in accordance with the ANSI/TIA-222-G Standard. All users are solely responsible for the installation, use, maintenance, inspection and other work and the compliance with all local, state and federal requirements.
2. The allowable Effective Projected Areas (EPA) tabulated for the standard RSL tower kits represent the summation of the projected areas of all antennas, mounts and accessories multiplied by appropriate drag factors. The tabulated EPA values are in addition to the loading from a 3/8 inch diameter safety cable assumed to be mounted to each standard tower. The tabulated EPA values are for a no-ice condition. For design purposes, the tabulated EPA values have been increased 75% when investigating extreme ice loading conditions.
3. The tabulated EPA values apply to towers located on sites with level grade (ANSI/TIA-222-G Topographic Category 1). Lower EPA values than tabulated would apply for roof mounted towers or for towers located on sites with unusual terrain. Contact ROHN for site-specific design limitations.
4. The RSL standard designs are based on one 1/2 inch transmission line for each 10 square feet of EPA up to a maximum of 6 lines unless otherwise noted. All lines are assumed to be symmetrically mounted on the tower faces adjacent to a leg.
5. The total weight of all antennas and mounts associated with the tabulated EPA values is assumed to equal 500 pounds for the no-ice condition and 1000 pounds for the extreme ice condition.
6. The tabulated EPA values assume the associated antennas and appurtenances are symmetrically mounted unless otherwise noted. Eccentric loading may increase member forces and may require a reduction of the tabulated EPA values. Mounting arrangements are assumed to be appropriate for the supporting members utilized. Contact ROHN if assistance is needed in determining the adequacy of a specific RSL tower kit for site-specific loading conditions.
7. The RSL standard top mast is designed to support a maximum EPA of 5 square feet with 100 pounds vertical load. Other optional top mounts are available upon request. All other loading is assumed to be mounted to the tower below the top mast.
8. The standard RSL tower kits that include dish loading criteria meet ANSI/TIA-222-G twist and sway requirements for a 6 GHz dish frequency. All dishes are assumed to be face mounted. Contact ROHN for assistance with higher frequency or other mounting arrangement applications.

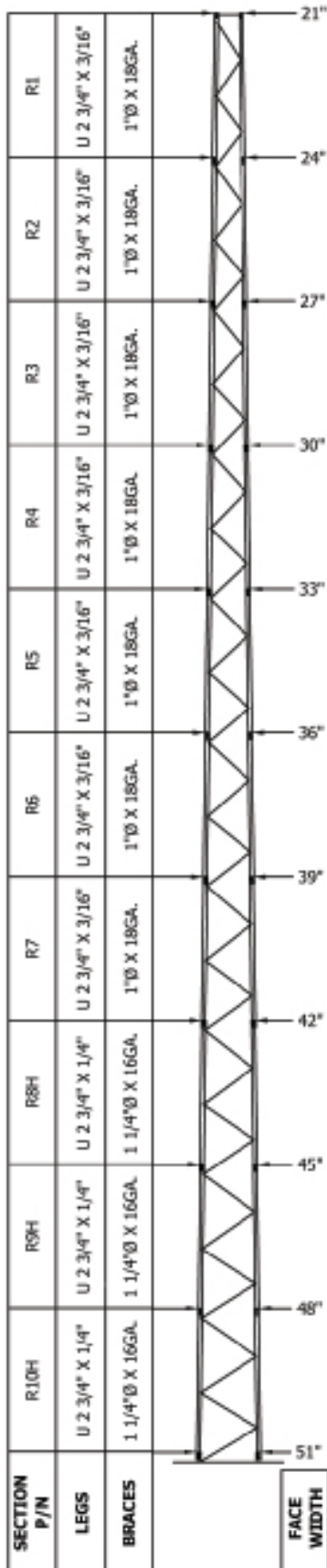
	R1	U 2 3/4" X 3/16"	1"Ø X 18GA.	21"
	R2	U 2 3/4" X 3/16"	1"Ø X 18GA.	24"
	R3	U 2 3/4" X 3/16"	1"Ø X 18GA.	27"
	R4	U 2 3/4" X 3/16"	1"Ø X 18GA.	30"
	R5	U 2 3/4" X 3/16"	1"Ø X 18GA.	33"
	R6	U 2 3/4" X 3/16"	1"Ø X 18GA.	36"
	R7	U 2 3/4" X 3/16"	1"Ø X 18GA.	39"
	R8H	U 2 3/4" X 1/4"	1 1/4"Ø X 16GA.	42"
	R9H	U 2 3/4" X 1/4"	1 1/4"Ø X 16GA.	45"
	R10H	U 2 3/4" X 1/4"	1 1/4"Ø X 16GA.	48"
SECTION P/N				51"
LEGS				
BRACES				
				FACE WIDTH

RSL TOWER DESIGN LOADING ACCORDING TO ANSI/TIA-222-G								
STRUCTURE CLASSIFICATION = I EXPOSURE CATEGORY = B TOPOGRAPHIC CATEGORY = 1								
RSL-D01 R4								
HEIGHT (FT)	SECTIONS	TOWER KIT P/N	ALLOWABLE EFFECTIVE PROJECTED AREA (FT²)					
			3-SECOND GUST WIND SPEED (MPH)					
			90	100	110	120	130	140
100	R1 - R10H	RSL100L10	25	11	-	-	-	-
90	R1 - R9H	RSL90L19	31	20	10	-	-	-
	R2 - R10H	RSL90L20	39	23	12	4	-	-
80	R1 - R8H	RSL80L18	34	21	12	4	-	-
	R2 - R9H	RSL80L29	49	34	22	10	-	-
	R3 - R10H	RSL80L30	56	38	25	14	4	-
70	R1 - R7	RSL70L17	40	27	17	9	-	-
	R2 - R8H	RSL70L28	52	37	25	13	-	-
	R3 - R9H	RSL70L39	74	52	32	19	8	-
	R4 - R10H	RSL70L40	80	56	38	24	13	5
60	R1 - R6	RSL60L16	59	42	30	21	12	-
	R4 - R9H	RSL60L49	80	62	42	28	17	9
	R5 - R10H	RSL60L50	80	67	48	34	24	15
50	R1 - R5	RSL50L15	80	60	45	34	26	19
	R5 - R9H	RSL50L59	80	73	53	38	27	19
	R6 - R10H	RSL50L60	80	78	59	45	35	27
40	R1 - R4	RSL40L14	80	80	67	52	42	31
	R7 - R10H	RSL40L70	80	80	72	58	48	39
30	R1 - R3	RSL30L13	80	80	80	71	57	45
	R8H - R10H	RSL30H80	80	80	80	80	80	80
20	R1 - R2	RSL20L12	80	80	80	71	60	49
	R9H - R10H	RSL20H90	80	80	80	80	80	80

The tabulated allowable effective projected areas (EPA) are limited to a maximum recommended value of 80 (ft²). EPA values shown as " - " indicate tower kit is not applicable for the corresponding wind speed.

Site-specific designs are available upon request.

TUBE BRACING CLASS I LOADING



RSL TOWER DESIGN LOADING ACCORDING TO ANSI/TIA-222-G								
STRUCTURE CLASSIFICATION = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 3-SECOND GUST WIND SPEED WITH ICE = 40 MPH DESIGN ICE THICKNESS = 1.0" EARTHQUAKE SPECTRAL RESPONSE ACCELERATION, S _s = 2.50								
RSL-D02 R3								
HEIGHT (FT)	SECTIONS	TOWER KIT P/N	ALLOWABLE EFFECTIVE PROJECTED AREA (FT²)					
			3-SECOND GUST WIND SPEED WITHOUT ICE (MPH)					
			90	100	110	120	130	140
90	R1 - R9H	RSL90L19	10	-	-	-	-	-
	R2 - R10H	RSL90L20	11	-	-	-	-	-
80	R1 - R8H	RSL80L18	11	-	-	-	-	-
	R2 - R9H	RSL80L29	21	4	-	-	-	-
	R3 - R10H	RSL80L30	24	10	-	-	-	-
70	R1 - R7	RSL70L17	15	6	-	-	-	-
	R2 - R8H	RSL70L28	24	10	-	-	-	-
	R3 - R9H	RSL70L39	30	12	-	-	-	-
	R4 - R10H	RSL70L40	35	20	8	-	-	-
60	R1 - R6	RSL60L16	29	18	8	-	-	-
	R4 - R9H	RSL60L49	39	22	10	-	-	-
	R5 - R10H	RSL60L50	45	30	18	9	-	-
50	R1 - R5	RSL50L15	43	30	20	10	-	-
	R5 - R9H	RSL50L59	49	32	20	11	4	-
	R6 - R10H	RSL50L60	56	40	29	20	13	8
40	R1 - R4	RSL40L14	62	47	35	24	14	7
	R7 - R10H	RSL40L70	67	52	40	32	25	20
30	R1 - R3	RSL30L13	79	63	48	36	27	19
	R8H - R10H	RSL30H80	80	80	80	73	56	43
20	R1 - R2	RSL20L12	80	69	57	45	36	29
	R9H - R10H	RSL20H90	80	80	80	80	73	59

The tabulated allowable effective projected areas (EPA) are limited to a maximum recommended value of 80 (ft²). EPA values shown as " - " indicate tower kit is not applicable for the corresponding wind speed.

Site-specific designs are available upon request.

TUBE BRACING
CLASS II LOADING



RA1	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	21"
RA2	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	24"
RA3	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	27"
RA4	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	30"
RA5	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	33"
RA6	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	36"
RA7	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	39"
RA8	U 2 3/4" X 1/4"	L 1 1/2" X 1/8"	42"
RA9	U 2 3/4" X 1/4"	L 1 1/2" X 1/8"	45"
RA10	U 2 3/4" X 1/4"	L 1 1/2" X 1/8"	48"
SECTION P/N	LEGS	BRACES	FACE WIDTH

RSL TOWER DESIGN LOADING ACCORDING TO ANSI/TIA-222-G								
STRUCTURE CLASSIFICATION = I EXPOSURE CATEGORY = B TOPOGRAPHIC CATEGORY = 1								
RSL-D03 R3								
HEIGHT (FT)	SECTIONS	TOWER KIT P/N	ALLOWABLE EFFECTIVE PROJECTED AREA (FT ²)					
			3-SECOND GUST WIND SPEED (MPH)					
			90	100	110	120	130	140
100	RA1 - RA10	RSL100A10	20	9	-	-	-	-
90	RA1 - RA9	RSL90A19	30	17	7	-	-	-
	RA2 - RA10	RSL90A20	35	20	9	-	-	-
80	RA1 - RA8	RSL80A18	31	20	9	-	-	-
	RA2 - RA9	RSL80A29	47	31	20	9	-	-
	RA3 - RA10	RSL80A30	52	34	21	11	-	-
70	RA1 - RA7	RSL70A17	38	24	13	5	-	-
	RA2 - RA8	RSL70A28	50	34	23	12	-	-
	RA3 - RA9	RSL70A39	71	50	34	19	6	-
	RA4 - RA10	RSL70A40	77	53	38	25	11	-
60	RA1 - RA6	RSL60A16	57	40	29	18	-	-
	RA4 - RA9	RSL60A49	80	67	45	30	17	7
	RA5 - RA10	RSL60A50	80	71	51	36	23	9
50	RA1 - RA5	RSL50A15	79	58	44	33	24	17
	RA5 - RA9	RSL50A59	80	78	56	40	29	19
	RA6 - RA10	RSL50A60	80	80	64	49	34	20
40	RA1 - RA4	RSL40A14	80	80	65	51	40	32
	RA7 - RA10	RSL40A70	80	80	78	63	48	33
30	RA1 - RA3	RSL30A13	80	80	80	80	66	54
	RA8 - RA10	RSL30A80	80	80	80	80	64	49
20	RA1 - RA2	RSL20A12	80	80	80	80	80	69
	RA9 - RA10	RSL20A90	80	80	80	80	77	62

The tabulated allowable effective projected areas (EPA) are limited to a maximum recommended value of 80 (ft²). EPA values shown as " - " indicate tower kit is not applicable for the corresponding wind speed.

Site-specific designs are available upon request.

ANGLE BRACING
CLASS I LOADING

	RA1	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	21"
	RA2	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	24"
	RA3	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	27"
	RA4	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	30"
	RA5	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	33"
	RA6	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	36"
	RA7	U 2 3/4" X 3/16"	L 1 1/4" X 1/8"	39"
	RA8	U 2 3/4" X 1/4"	L 1 1/2" X 1/8"	42"
	RA9	U 2 3/4" X 1/4"	L 1 1/2" X 1/8"	45"
	RA10	U 2 3/4" X 1/4"	L 1 1/2" X 1/8"	48"
SECTION P/N				51"
LEGS				
BRACES				
				FACE WIDTH

RSL TOWER DESIGN LOADING ACCORDING TO ANSI/TIA-222-G								
STRUCTURE CLASSIFICATION = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 3-SECOND GUST WIND SPEED WITH ICE = 40 MPH DESIGN ICE THICKNESS = 1.0" EARTHQUAKE SPECTRAL RESPONSE ACCELERATION, $S_s = 2.50$								
HEIGHT (FT)	SECTIONS	TOWER KIT P/N	ALLOWABLE EFFECTIVE PROJECTED AREA (FT ²)					
			3-SECOND GUST WIND SPEED WITHOUT ICE (MPH)					
			90	100	110	120	130	140
90	RA1 - RA9	RSL90A19	6	-	-	-	-	-
	RA2 - RA10	RSL90A20	8	-	-	-	-	-
80	RA1 - RA8	RSL80A18	8	-	-	-	-	-
	RA2 - RA9	RSL80A29	19	-	-	-	-	-
	RA3 - RA10	RSL80A30	20	9	-	-	-	-
70	RA1 - RA7	RSL70A17	12	-	-	-	-	-
	RA2 - RA8	RSL70A28	21	7	-	-	-	-
	RA3 - RA9	RSL70A39	30	12	-	-	-	-
	RA4 - RA10	RSL70A40	36	20	-	-	-	-
60	RA1 - RA6	RSL60A16	26	14	-	-	-	-
	RA4 - RA9	RSL60A49	40	23	10	-	-	-
	RA5 - RA10	RSL60A50	48	30	15	-	-	-
50	RA1 - RA5	RSL50A15	41	29	19	11	-	-
	RA5 - RA9	RSL50A59	52	34	21	11	-	-
	RA6 - RA10	RSL50A60	60	42	27	11	-	-
40	RA1 - RA4	RSL40A14	61	45	34	25	19	10
	RA7 - RA10	RSL40A70	73	56	39	25	13	-
30	RA1 - RA3	RSL30A13	80	72	56	45	35	26
	RA8 - RA10	RSL30A80	80	75	54	38	27	18
20	RA1 - RA2	RSL20A12	80	80	78	62	50	40
	RA9 - RA10	RSL20A90	80	80	72	56	43	33

RSL-D04 R3

The tabulated allowable effective projected areas (EPA) are limited to a maximum recommended value of 80 (ft²). EPA values shown as " - " indicate tower kit is not applicable for the corresponding wind speed.

Site-specific designs are available upon request.

ANGLE BRACING
CLASS II LOADING

	R1H	U 2 3/4" X 3/16"	1 1/4"Ø X 16GA.	21"
	R2H	U 2 3/4" X 3/16"	1 1/4"Ø X 16GA.	24"
	R3H	U 2 3/4" X 3/16"	1 1/4"Ø X 16GA.	27"
	R4H	U 2 3/4" X 3/16"	1 1/4"Ø X 16GA.	30"
	R5H	U 2 3/4" X 3/16"	1 1/4"Ø X 16GA.	33"
	R6H	U 2 3/4" X 3/16"	1 1/4"Ø X 16GA.	36"
	R7H	U 2 3/4" X 3/16"	1 1/4"Ø X 16GA.	39"
	R8H	U 2 3/4" X 1/4"	1 1/4"Ø X 16GA.	42"
	R9H	U 2 3/4" X 1/4"	1 1/4"Ø X 16GA.	45"
	R10H	U 2 3/4" X 1/4"	1 1/4"Ø X 16GA.	48"
SECTION P/N	LEGS	BRACES		51"
				FACE WIDTH

RSL TOWER DESIGN LOADING ACCORDING TO ANSI/TIA-222-G									
STRUCTURE CLASSIFICATION = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 3-SECOND GUST WIND SPEED WITH ICE = 40 MPH DESIGN ICE THICKNESS = 1.0" EARTHQUAKE SPECTRAL RESPONSE ACCELERATION, S _s = 2.50									
RSL - D05 RO									
HEIGHT (FT)	SECTIONS	HIGH PERFORMANCE DISH LOCATED 10 FT BELOW TOWER TOP	TOWER KIT P/N	ALLOWABLE EFFECTIVE PROJECTED AREA (FT ²)					
				3-SECOND GUST WIND SPEED WITHOUT ICE (MPH)					
				90	100	110	120	130	140
90	R1H - R9H	HP2	RSL90H19	5	-	-	-	-	-
	R2H - R10H	HP2	RSL90H20	7	-	-	-	-	-
80	R1H - R8H	HP2	RSL80H18	7	-	-	-	-	-
	R2H - R9H	HP2	RSL80H29	17	6	-	-	-	-
	R3H - R10H	HP4	RSL80H30	10	-	-	-	-	-
70	R1H - R7H	HP2	RSL70H17	10	-	-	-	-	-
	R2H - R8H	HP2	RSL70H28	20	10	-	-	-	-
	R3H - R9H	HP2	RSL70H39	31	19	9	-	-	-
	R4H - R10H	HP4	RSL70H40	27	12	-	-	-	-
60	R1H - R6H	HP2	RSL60H16	25	13	5	-	-	-
	R4H - R9H	HP4	RSL60H49	43	27	15	6	-	-
	R5H - R10H	HP4	RSL60H50	48	30	18	8	-	-
50	R1H - R5H	HP4	RSL50H15	31	18	8	-	-	-
	R5H - R9H	HP4	RSL50H59	72	50	35	23	14	7
	R6H - R10H	HP4	RSL50H60	78	55	39	26	11	-
40	R1H - R4H	HP4	RSL40H14	51	36	25	16	8	-
	R7H - R10H	HP4	RSL40H70	80	80	59	39	23	11
30	R1H - R3H	HP4	RSL30H13	80	63	48	37	28	20
	R8H - R10H	HP4	RSL30H80	80	80	74	53	37	24
20	R1H - R2H	HP4	RSL20H12	80	80	80	75	61	48
	R9H - R10H	HP4	RSL20H90	80	80	80	69	52	39

The tabulated allowable effective projected areas (EPA) are limited to a maximum recommended value of 80 (ft²). EPA values shown in the table are in addition to the specified high performance dish. EPA values shown as " - " indicate tower kit is not applicable for the corresponding wind speed.

HEAVY TUBE BRACING
DISH LOADING

	RA1H	U 2 3/4" X 3/16"	L 1 1/2" X 1/8"	21"
	RA2H	U 2 3/4" X 3/16"	L 1 1/2" X 1/8"	24"
	RA3H	U 2 3/4" X 3/16"	L 1 1/2" X 1/8"	27"
	RA4H	U 2 3/4" X 3/16"	L 1 3/4" X 1/8"	30"
	RA5H	U 2 3/4" X 3/16"	L 1 3/4" X 1/8"	33"
	RA6H	U 2 3/4" X 3/16"	L 1 3/4" X 1/8"	36"
	RA7H	U 2 3/4" X 3/16"	L 1 3/4" X 1/8"	39"
	RA8H	U 2 3/4" X 1/4"	L 1 3/4" X 1/8"	42"
	RA9H	U 2 3/4" X 1/4"	L 1 3/4" X 3/16"	45"
	RA10H	U 2 3/4" X 1/4"	L 1 3/4" X 3/16"	48"
SECTION P/N	LEGS	BRACES		51"
				FACE WIDTH

RSL TOWER DESIGN LOADING ACCORDING TO ANSI/TIA-222-G									
STRUCTURE CLASSIFICATION = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 3-SECOND GUST WIND SPEED WITH ICE = 40 MPH DESIGN ICE THICKNESS = 1.0" EARTHQUAKE SPECTRAL RESPONSE ACCELERATION, $S_s = 2.50$									
RSL - D06 RO									
HEIGHT (FT)	SECTIONS	HIGH PERFORMANCE DISH LOCATED 10 FT BELOW TOWER TOP	TOWER KIT P/N	ALLOWABLE EFFECTIVE PROJECTED AREA (FT ²) 3-SECOND GUST WIND SPEED WITHOUT ICE (MPH)					
				90	100	110	120	130	140
90	RA2H - RA10H	HP2*	RSL90AH20	0	-	-	-	-	-
80	RA1H - RA8H	HP2*	RSL80AH18	0	-	-	-	-	-
	RA2H - RA9H	HP2	RSL80AH29	12	-	-	-	-	-
	RA3H - RA10H	HP4	RSL80AH30	6	-	-	-	-	-
70	RA1H - RA7H	HP2	RSL70AH17	6	-	-	-	-	-
	RA2H - RA8H	HP2	RSL70AH28	17	5	-	-	-	-
	RA3H - RA9H	HP2	RSL70AH39	28	14	4	-	-	-
	RA4H - RA10H	HP4	RSL70AH40	21	8	-	-	-	-
60	RA1H - RA6H	HP2	RSL60AH16	20	10	-	-	-	-
	RA4H - RA9H	HP4	RSL60AH49	39	22	10	-	-	-
	RA5H - RA10H	HP4	RSL60AH50	43	26	13	-	-	-
50	RA1H - RA5H	HP4	RSL50AH15	29	15	4	-	-	-
	RA5H - RA9H	HP4	RSL50AH59	68	46	31	20	10	-
	RA6H - RA10H	HP4	RSL50AH60	74	50	34	22	12	5
40	RA1H - RA4H	HP4	RSL40AH14	50	34	22	13	6	-
	RA7H - RA10H	HP4	RSL40AH70	80	80	67	50	37	27
30	RA1H - RA3H	HP4	RSL30AH13	80	62	47	35	27	20
	RA8H - RA10H	HP4	RSL30AH80	80	80	80	80	68	49
20	RA1H - RA2H	HP4	RSL20AH12	80	80	80	74	60	47
	RA9H - RA10H	HP4	RSL20AH90	80	80	80	80	80	67

The tabulated allowable effective projected areas (EPA) are limited to a maximum recommended value of 80 (ft²). EPA values shown in the table are in addition to the specified high performance dish. EPA values shown as "-" indicate tower kit is not applicable for the corresponding wind speed.

**HEAVY ANGLE BRACING
DISH LOADING**



OPTIONAL ACCESSORIES

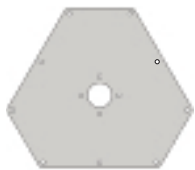
TOP PLATE KIT

RTP12 RTP07

RTP34 RTP08

RTP56 RTP09

Mounts to top closing angles provided with tower kit. Hole pattern fits TB3 and TB4 thrust bearings. Kit includes plate and attachment hardware.



TOP MAST KIT

RSLTMA

2.38" O.D. x 0.154" wall x 3' mast mounts to top plate kit. Top plate kit *must be ordered separately*.



ACCESSORY SHELF

RASK12

RASK34

RASK05

Mounts to tower legs at approximately 4' - 6" below top. Kit includes plate and attachment hardware. *Top plate, if required, must be ordered separately.*



LEG MOUNT

RSLM-DLM

Mounting pipe: 2.38" O.D. x 0.154" wall x 5' long mounting pipe.



FRAME MOUNT

RSLM-3FM

10' Frame mount with 1.90" O.D. x 0.145" wall x 10' horizontal pipe with 2.38" O.D. x 0.154" wall x 5' mounting pipes.



FACE MOUNT

RSLM-DFML

Face Mount with 2.38" O.D. x 0.154" wall x 5' long mounting pipe.

RSLM-DFMH

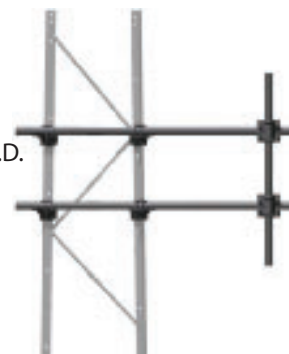
Face Mount with 4.5" O.D. x 0.237" wall x 5' mounting pipe.



SIDE ARM MOUNT

RSLM-3SA

3' Side Arm Mount with 1.90" O.D. x 0.145" wall x 8' horizontal pipe and 2.38" O.D. x 0.154" wall x 5' mounting pipe.



SINGLE ARM MOUNT

RSLM-SAM

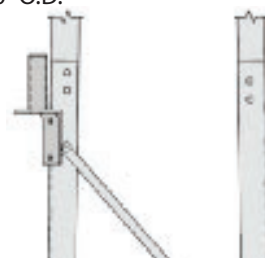
3' single arm with 1.50" O.D. x 0.120" wall x 10' horizontal pipe.



LEG MOUNTED BRACKET

RSLM-LMB

Leg mounted bracket with a 1.90" O.D. x 0.154" wall x 6" mounting post.

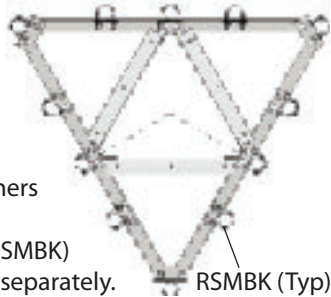


OPTIONAL ACCESSORIES

SECTOR MOUNT

RSM1 RSM3
RSM2 RSM4

Mount can accommodate up to (12) 5' mounting pipes. Brackets and U-bolts at corners are provided with this kit. Additional mounting kits (RSMBK) and pipes must be ordered separately.



TIE BACK ASSEMBLY

RSLTBA

Dish tie back bracket. Clamps to a leg at any location. Includes (1) bracket with required mounting hardware.



LIGHTNING ROD

LRCL

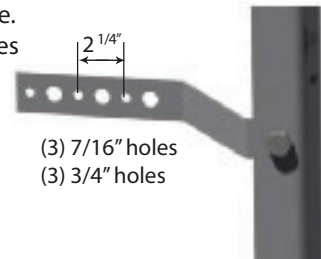
5' Copper clad, mounts to top closing angles.



WAVEGUIDE BRACKETS

RSWGB

Includes (1) 3-hole bracket with required mounting hardware. Mounts to pre-punched holes in leg.



CLIMBING HARNESS

TTFBH-4D (Journeyman Harness)
TTFBH-C/P (Professional Harness)



SAFETY CABLE SLIDER WITH CARABINEER

TT-WG-500-W/SMC



STEP BOLT KIT

RSLSTEP

One kit consists of (10) 5/8" x 7" steps for one 10' tower section. Order one kit for each section of tower for step bolts on one leg.

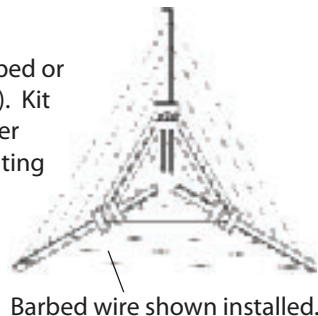
SAFETY CABLE SYSTEMS

Tower Height	Part Number
20' - 50'	TTRSL50
60' - 100'	TTRSL100

ANTI-CLIMB BRACKETS

RACW

Brackets to be used with barbed or razor wire (wire not included). Kit includes (3) outer and (3) inner brackets with required mounting hardware.

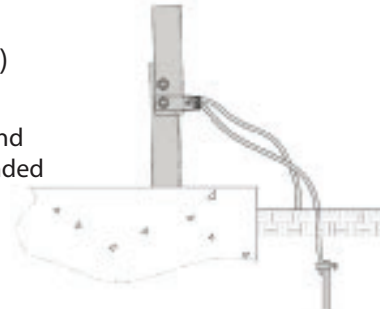


RSL GROUNDING KIT

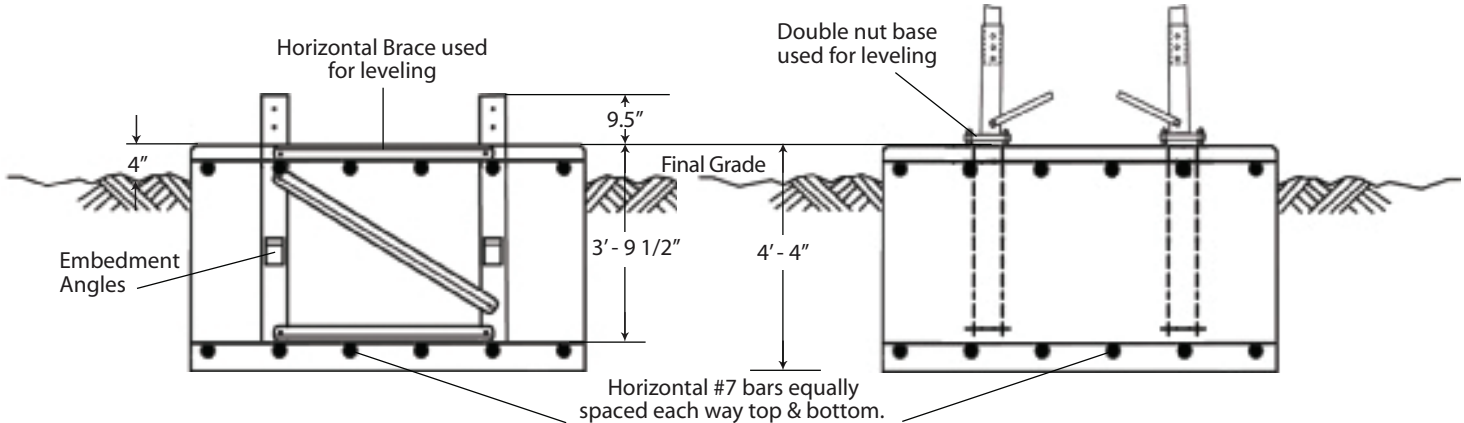
RGKG (3 LEG KIT)

RGKG-1 (1 LEG KIT)

Grounding kit, per Rev. G, 5/8" x 10' ground rods, 7/16" IWRC stranded galvanized ground leads and clamps.

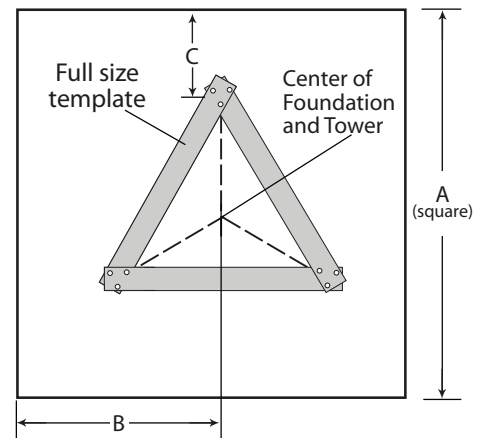
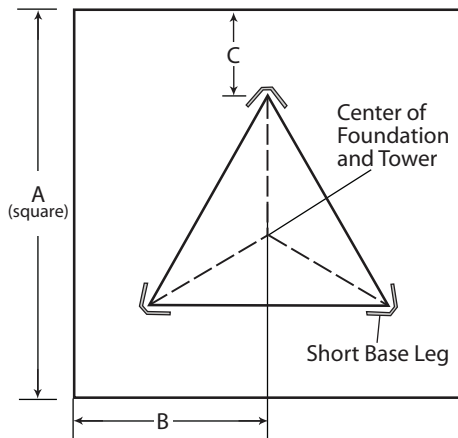


FOUNDATION INFORMATION



SHORT BASE

ANCHOR BASE



Anchor base option includes: full-size template, anchor bolt lower template, anchor bolts and leg stubs.

SHORT BASE
(Ordered separately from tower)

STANDARD FOUNDATION INFORMATION
(Used with short base and anchor base options)

ANCHOR BASE
(Ordered separately from tower)

Short Base Section
RSB02
RSB03
RSB04
RSB05
RSB06
RSB07
RSB08
RSB09
RSB10

Tower Base Section	Dimensions			Concrete (Cu. Yds)	No. 7 Bars Req.
	A	B	C		
2	7' - 6"	3' - 9"	2' - 5"	9.0	32
3	7' - 9"	3' - 10 1/2"	2' - 5"	9.6	40
4	8' - 0"	4' - 0"	2' - 5"	10.3	40
5	8' - 3"	4' - 1 1/2"	2' - 5"	10.9	40
6	8' - 6"	4' - 3"	2' - 4"	11.6	40
7	8' - 6"	4' - 3"	2' - 3"	11.6	40
8	9' - 6"	4' - 9"	2' - 7"	14.5	40
9	9' - 9"	4' - 10 1/2"	2' - 7"	15.3	48
10	10' - 0"	5' - 0"	2' - 7"	16.0	48

Leg Stubs & Anchors
RAL02
RAL03
RAL04
RAL05
RAL06
RAL07
RAL08
RAL09
RAL10

Standard foundations illustrated are for general information purposes only.
Actual details are provided with tower assembly drawings.

OPTIONAL ITEMS MUST BE ORDERED SEPARATELY

TOWER HEIGHT	RSL SECTION REFERENCE	TOP PLATE KIT	ACCESSORY SHELF	SECTOR MOUNT KIT	SHORT BASE KIT	ANCHOR BASE KIT	STEP BOLT KIT (ONE LEG)	SAFETY CABLE KIT
100'	1-10	RTP12	RASK12	RSM1	RSB10	RAL10	(10) RSLSTEP	TTRSL100
90	1-9	RTP12	RASK12	RSM1	RSB09	RAL09	(9) RSLSTEP	TTRSL100
	2-10	RTP12	RASK12	RSM2	RSB10	RAL10		
80	1-8	RTP12	RASK12	RSM1	RSB08	RAL08	(8) RSLSTEP	TTRSL100
	2-9	RTP12	RASK12	RSM2	RSB09	RAL09		
	3-10	RTP34	RASK34	RSM3	RSB10	RAL10		
70	1-7	RTP12	RASK12	RSM1	RSB07	RAL07	(7) RSLSTEP	TTRSL100
	2-8	RTP12	RASK12	RSM2	RSB08	RAL08		
	3-9	RTP34	RASK34	RSM3	RSB09	RAL09		
	4-10	RTP34	RASK34	RSM4	RSB10	RAL10		
60	1-6	RTP12	RASK12	RSM1	RSB06	RAL06	(6) RSLSTEP	TTRSL100
	4-9	RTP34	RASK34	RSM4	RSB09	RAL09		
	5-10	RTP56	RASK05	N/A	RSB10	RAL10		
50	1-5	RTP12	RASK12	RSM1	RSB05	RAL05	(5) RSLSTEP	TTRSL50
	5-9	RTP56	RASK05	N/A	RSB09	RAL09		
	6-10	RTP56	N/A	N/A	RSB10	RAL10		
40	1-4	RTP12	RASK12	RSM1	RSB04	RAL04	(4) RSLSTEP	TTRSL50
	7-10	RTP07	N/A	N/A	RSB10	RAL10		
30	1-3	RTP12	RASK12	RSM1	RSB03	RAL03	(3) RSLSTEP	TTRSL50
	8-10	RTP08	N/A	N/A	RSB10	RAL10		
20	1-2	RTP12	RASK12	RSM1	RSB02	RAL02	(2) RSLSTEP	TTRSL50
	9-10	RTP09	N/A	N/A	RSB10	RAL10		

RSLAKITS R2

ROHN standard RSL tower kits are supplied with lock washers as nut locking devices. Pal nuts (P), ANCO nuts (A) and Tri-Loc nuts (T) are alternative nut locking devices that may be obtained by adding the indicated suffix to the standard RSL tower kit part number. *Nut locking devices are required in accordance with ANSI/TIA-222-G.*

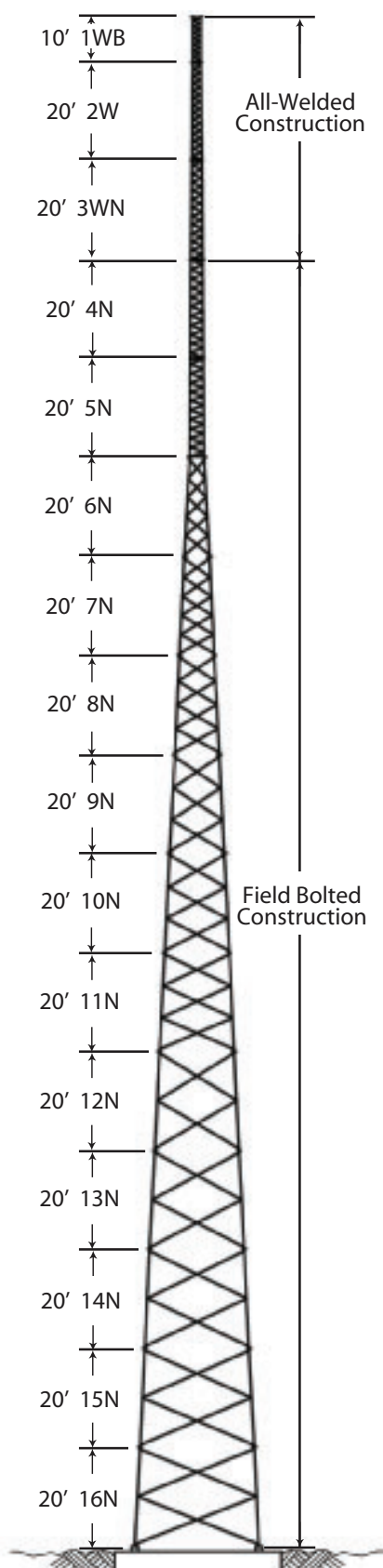


SSV SELF-SUPPORTING TOWERS

SSV STANDARD

GENERAL USE

The ROHN SSV tower has been in service for over 50 years. The design utilizes standard parts arranged to create a unique structure. The legs are tubular with angle braces at the bottom and solid legs and braces in the top sections. This tower is used in a variety of applications, from PCS structures and broadband to security, sports lighting and more. The SSV has proven to be one of the industry's most efficient and preferred structures. All ROHN SSV towers are hot-dip galvanized, inside and out for corrosion protection.



Do not use for construction.
See tower assembly drawings.

Section Number	Nominal Spread Dimension	
	Upper	Lower
1WB	1' - 2"	1' - 2"
2W	1' - 2"	1' - 6"
3WN	1' - 6"	1' - 10"
4N	1' - 10"	2' - 2"
5N	2' - 2"	2' - 6"
6N	2' - 6"	4' - 6 1/4"
7N	4' - 6 1/4"	6' - 6 3/4"
8N	6' - 6 3/4"	8' - 6 3/4"
9N	8' - 6 3/4"	10' - 6 3/4"
10N	10' - 6 3/4"	12' - 7 1/4"
11N	12' - 7 1/4"	14' - 7 7/8"
12N	14' - 7 7/8"	16' - 8 3/8"
13N	16' - 8 3/8"	18' - 8 3/8"
14N	18' - 8 3/8"	20' - 9 3/8"
15N	20' - 9 3/8"	22' - 9 3/8"
16N	22' - 9 3/8"	24' - 9 3/8"

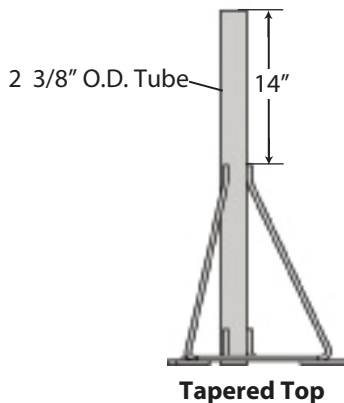
Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.

SELF-SUPPORTING STANDARD TOWERS

REV G, 90 MPH 3-SEC, 3/4" ICE							
TOWER HEIGHT (FT.)	TOWER ASSEMBLY NUMBER	SECTIONS		EFFECTIVE PROJECTED AREA (SQ. FT.)			
		TOP	BASE	TOP		30' BELOW TOP	
				EXP B	EXP C	EXP B	EXP C
40	SS040R90	2W	3WN	18	13	31	19
50	SS050R90	1WB	3WN	7	5	12	7
60	SS060R90	2W	4N	15	10	25	16
70	SS070R90	1WB	4N	6	4	10	5
80	SS080R90	2W	5N	13	9	22	14
90	SS090R90	1WB	5N	5	3	8	5
100	SS100R90	2W	6N62	11	7	18	11
110	SS110R90	1WB	6N62	4	2	7	3
120	SS120R90	2W	7N165	10	6	17	10
130	SS130R90	1WB	7N165	4	2	7	3
140	SS140R90	2W	8N106	9	4	15	7
150	SS150R90	1WB	8N106	5	2	8	3
160	SS160R90	2W	9N325	8	-	14	-
170	SS170R90	1WB	9N325	5	-	8	-
180	SS180R90	2W	10N387	4	-	6	-

General Notes:

1. Standard tower designs are in accordance with approved national standard ANSI/TIA-222-G, Structure Class II, Topographic Category 1, 3/4" design ice thickness, seismic coefficient $S_s \leq 1.0$.
2. Tower designs assume allowable projected areas are symmetrically placed on the tower.
3. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one line on each face.
4. All towers are provided with step bolts and a tapered top.
5. Grounding kit must be ordered separately.
6. Assembly drawings and standard foundation details are supplied with the tower.
7. Custom designs for site-specific applications are available upon request.



Assy. P/N	Tower Section No.
1TT	1W, 1WB, 2W
3TT	2WST, 2WB, 3WN
4TTN	3WNST, 3WNB, 4N
5TTN	4NST, 4NA, 4WB, 4NC, 5N
6TT	5NST, 5NA, 5NB, 5NC, 6C



SELF-SUPPORTING STANDARD TOWERS

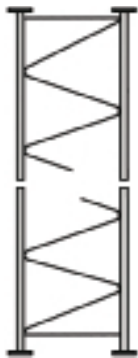
REV G, 100 MPH 3-SEC, 3/4" ICE							
TOWER HEIGHT (FT.)	TOWER ASSEMBLY NUMBER	SECTIONS		EFFECTIVE PROJECTED AREA (SQ. FT.)			
		TOP	BASE	TOP		30' BELOW TOP	
				EXP B	EXP C	EXP B	EXP C
40	SS040R100	2W	3WN	14	10	24	15
50	SS050R100	1WB	3WN	5	3	8	5
60	SS060R100	2W	4N	11	7	18	12
70	SS070R100	1WB	4N	4	2	7	3
80	SS080R100	2W	5N	10	6	17	10
90	SS090R100	1WB	5N	3	2	5	2
100	SS100R100	2W	6N62	7	4	12	6
110	SS110R100	1WB	6N62	3	2	5	-
120	SS120R100	2W	7N165	6	2	10	3
130	SS130R100	1WB	7N165	2	-	3	-
140	SS140R100	2W	8N106	5	-	8	-
150	SS150R100	1WB	8N106	3	-	5	-
160	SS160R100	2W	9N325	4	-	6	-
170	SS170R100	1WB	9N325	2	-	2	-

General Notes:

1. Standard tower designs are in accordance with approved national standard ANSI/TIA-222-G, Structure Class II, Topographic Category 1, 3/4" design ice thickness, seismic coefficient $S_s \leq 1.0$.
2. Tower designs assume allowable projected areas are symmetrically placed on the tower.
3. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one line on each face.
4. All towers are provided with step bolts and a tapered top.
5. Grounding kit must be ordered separately.
6. Assembly drawings and standard foundation details are supplied with the tower.
7. Custom designs for site-specific applications are available upon request.

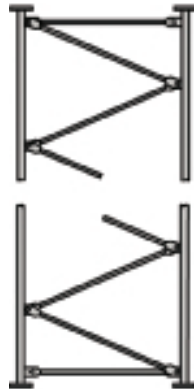


SELF-SUPPORTING HEAVY DUTY SECTIONS



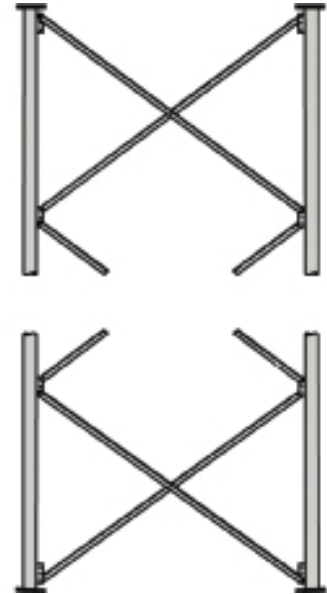
Bracing Detail for Sections 1W - 3WN
Solid Round Legs & Solid Round Braces

*Straight and Tapered Sections
available.*

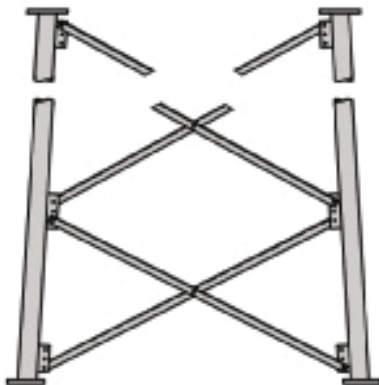


Bracing Detail for Sections 4N & 5N
Solid Round Legs & Solid Round Braces

*Straight and Tapered Sections
available.*

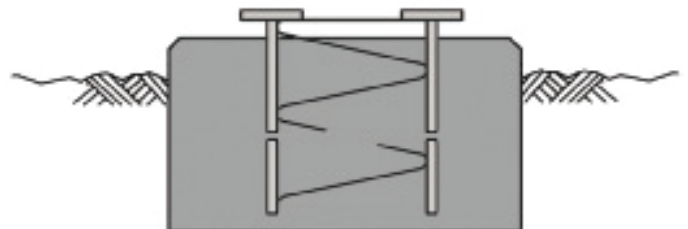


Bracing Detail for Straight Sections 6N - 11N
Tubular Legs & Angle Braces



Bracing Detail for Tapered Sections 6N - 16NH
Tubular Legs & Angle Braces

TYPICAL SHORT BASE



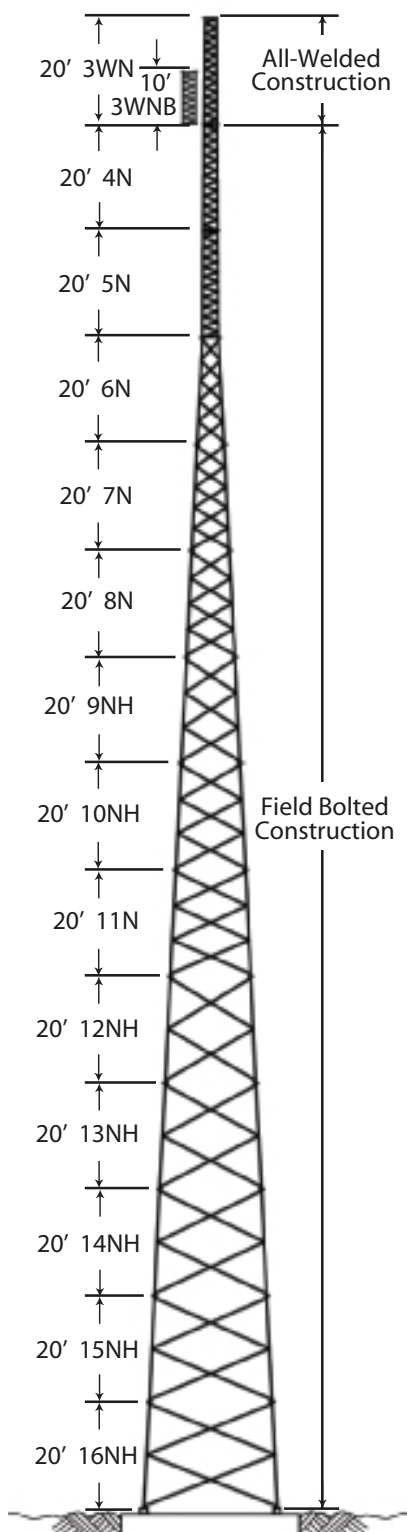
Part No: SB2, SB3, SB4 & SB5
*Installed when 2N - 5N sections are
used as tower base.*

Anchor bolt configurations are provided with larger towers.



SSV HD SELF-SUPPORTING TOWERS

SSV HEAVY DUTY



GENERAL USE

The ROHN SSV HD tower has the same features and utility as the SSV tower, but with Heavy Duty legs and braces. The heavy duty tower allows for the structure to support more loading and higher wind and ice loading. This tower serves the same applications as the SSV including: PCS, broadband, security, sports lighting and many others. The SSV HD also has standard "pre-engineered" towers created from standard sections. All ROHN SSV towers are hot-dip galvanized, inside and out for corrosion protection.

Do not use for construction.
See tower assembly drawings.

Section Number	Nominal Spread Dimension	
	Upper	Lower
3WN	1' - 6"	1' - 10"
3WNB	1' - 10"	1' - 10"
4N	1' - 10"	2' - 2"
5N	2' - 2"	2' - 6"
6N	2' - 6"	4' - 6 1/4"
7N	4' - 6 1/4"	6' - 6 3/4"
8N	6' - 6 3/4"	8' - 6 3/4"
9NH	8' - 6 3/4"	10' - 6 3/4"
10NH	10' - 6 3/4"	12' - 7 1/4"
11N	12' - 7 1/4"	14' - 7 7/8"
12NH	14' - 7 7/8"	16' - 8 3/8"
13NH	16' - 8 3/8"	18' - 8 3/8"
14NH	18' - 8 3/8"	20' - 9 3/8"
15NH	20' - 9 3/8"	22' - 9 3/8"
16NH	22' - 9 3/8"	24' - 9 3/8"

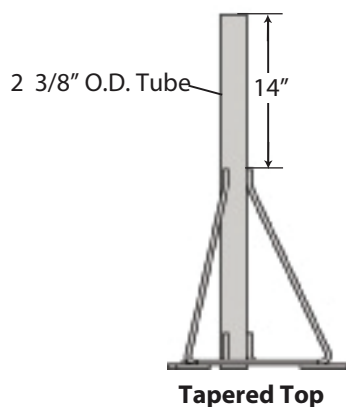
Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.

SELF-SUPPORTING HEAVY DUTY STANDARD TOWERS

REV G, 90 MPH 3-SEC, 3/4" ICE							
TOWER HEIGHT (FT.)	TOWER ASSEMBLY NUMBER	SECTIONS		EFFECTIVE PROJECTED AREA (SQ. FT.)			
		TOP	BASE	TOP		30' BELOW TOP	
				EXP B	EXP C	EXP B	EXP C
40	SS040HD90	3WN	4N	41	29	60	40
50	SS050HD90	3WNB	5N	36	27	60	40
60	SS060HD90	3WN	5N	35	26	60	40
70	SS070HD90	3WNB	6N62	32	23	54	38
80	SS080HD90	3WN	6N62	22	15	37	25
90	SS090HD90	3WNB	7N165	27	18	46	30
100	SS100HD90	3WN	7N165	20	13	34	21
110	SS110HD90	3WNB	8N106	24	10	41	17
120	SS120HD90	3WN	8N106	18	11	31	18
130	SS130HD90	3WNB	9N82	21	9	36	15
140	SS140HD90	3WN	9N82	16	10	27	17
150	SS150HD90	3WNB	10N183	19	11	33	18
160	SS160HD90	3WN	10N183	15	8	25	14
170	SS170HD90	3WNB	11N332	18	9	31	15
180	SS180HD90	3WN	11N332	13	6	21	10

General Notes:

1. Standard tower designs are in accordance with approved national standard ANSI/TIA-222-G, Structure Class II, Topographic Category 1, 3/4" design ice thickness, seismic coefficient $S_s \leq 1.0$.
2. Tower designs assume allowable projected areas are symmetrically placed on the tower.
3. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one line on each face.
4. All towers are provided with step bolts and a tapered top.
5. Grounding kit must be ordered seperately.
6. Assembly drawings and standard foundation details are supplied with the tower.
7. Custom designs for site-specific applications are available upon request.



Assy. P/N	Tower Section No.
1TT	1W, 1WB, 2W
3TT	2WST, 2WB, 3WN
4TTN	3WNST, 3WNB, 4N
5TTN	4NST, 4NA, 4WB, 4NC, 5N
6TT	5NST, 5NA, 5NB, 5NC, 6C



SELF-SUPPORTING HEAVY DUTY STANDARD TOWERS

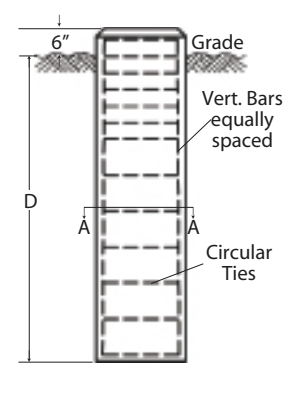
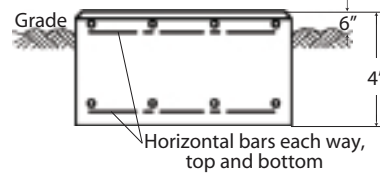
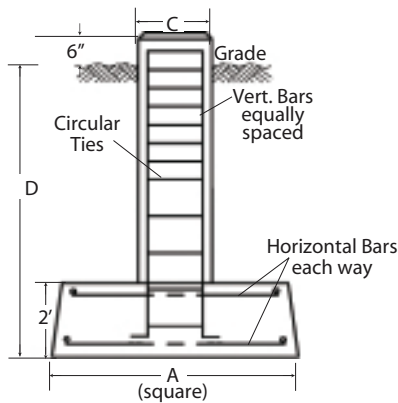
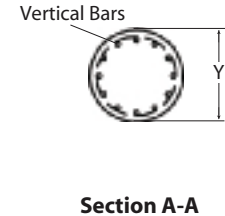
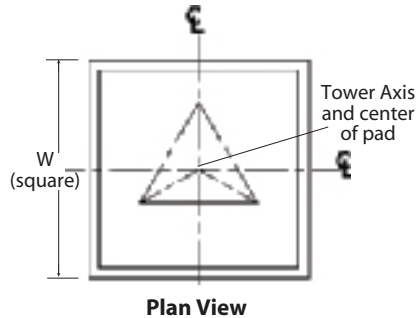
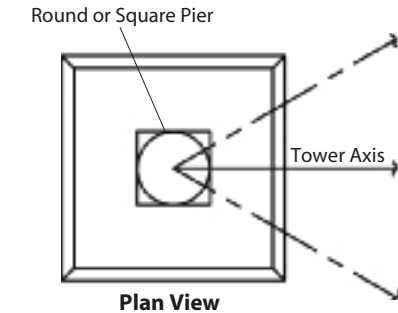
REV G, 100 MPH 3-SEC, 3/4" ICE							
TOWER HEIGHT (FT.)	TOWER ASSEMBLY NUMBER	SECTIONS		EFFECTIVE PROJECTED AREA (SQ. FT.)			
		TOP	BASE	TOP		30' BELOW TOP	
				EXP B	EXP C	EXP B	EXP C
40	SS040HD100	3WN	4N	32	23	50	38
50	SS050HD100	3WNB	5N	29	21	49	35
60	SS060HD100	3WN	5N	28	20	48	34
70	SS070HD100	3WNB	6N62	25	17	42	28
80	SS080HD100	3WN	6N62	17	11	28	18
90	SS090HD100	3WNB	7N165	19	11	32	18
100	SS100HD100	3WN	7N165	14	7	24	11
110	SS110HD100	3WNB	8N106	17	9	28	15
120	SS120HD100	3WN	8N106	12	5	20	9
130	SS130HD100	3WNB	9N82	14	8	24	13
140	SS140HD100	3WN	9N82	10	4	17	7
150	SS150HD100	3WNB	10N183	12	3	20	5
160	SS160HD100	3WN	10N183	9	-	15	-
170	SS170HD100	3WNB	11N332	9	-	15	-
180	SS180HD100	3WN	11N332	6	-	10	-

REV G, 110 MPH 3-SEC, 3/4" ICE							
TOWER HEIGHT (FT.)	TOWER ASSEMBLY NUMBER	SECTIONS		EFFECTIVE PROJECTED AREA (SQ. FT.)			
		TOP	BASE	TOP		30' BELOW TOP	
				EXP B	EXP C	EXP B	EXP C
40	SS040HD110	3WN	4N	26	18	40	30
50	SS050HD110	3WNB	5N	23	17	39	28
60	SS060HD110	3WN	5N	23	16	39	26
70	SS070HD110	3WNB	6N62	19	12	33	20
80	SS080HD110	3WN	6N62	12	7	20	11
90	SS090HD110	3WNB	7N165	13	7	22	10
100	SS100HD110	3WN	7N165	9	3	15	4
110	SS110HD110	3WNB	8N106	11	5	18	8
120	SS120HD110	3WN	8N106	7	2	11	3

General Notes:

1. Standard tower designs are in accordance with approved national standard ANSI/TIA-222-G, Structure Class II, Topographic Category 1, 3/4" design ice thickness, seismic coefficient $S_s \leq 1.0$.
2. Tower designs assume allowable projected areas are symmetrically placed on the tower.
3. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one line on each face.
4. All towers are provided with step bolts and a tapered top.
5. Grounding kit must be ordered separately.
6. Assembly drawings and standard foundation details are supplied with the tower.
7. Custom designs for site-specific applications are available upon request.

SELF-SUPPORTING ANSI/TIA-222-G STANDARD FOUNDATIONS



Tower Base Sect. No.	Pier & Pad					Mat		Drilled Pier		
	Dimensions			Req'd Conc. (cu. yds. 3 fdns)		W	Req'd Conc. (cu.yds.)	D	Y	Req'd Conc. (cu.yds.)
	D	A	C							
				Round	Square					
3WN	-	-	-	-	-	6' - 9"	6.8	-	-	-
4N	-	-	-	-	-	8' - 0"	9.5	-	-	-
5N	-	-	-	-	-	8' - 9"	11.3	-	-	-
6N62	-	-	-	-	-	10' - 3"	15.6	-	-	-
7N165	8' - 0"	4' - 6"	2' - 0"	6.3	6.9	11' - 6"	19.6	-	-	-
8N106	8' - 0"	5' - 0"	2' - 0"	7.3	7.9	14' - 3"	30.1	15' - 0"	2' - 6"	8.4
9N325/9N 82	8' - 0"	5' - 6"	2' - 0"	8.4	9.0	16' - 0"	37.9	18' - 0"	2' - 6"	10.2
10N387/10N183	8' - 6"	5' - 6"	2' - 0"	8.6	9.2	18' - 3"	49.3	20' - 0"	2' - 6"	11.1
11N332	9' - 0"	6' - 0"	2' - 6"	11.4	12.6	-	-	22' - 0"	2' - 6"	12.3

Standard foundations illustrated are for general information purposes only and are based on Rev G presumptive clay soil parameters.
Foundation installation details are provided with tower assembly drawings.

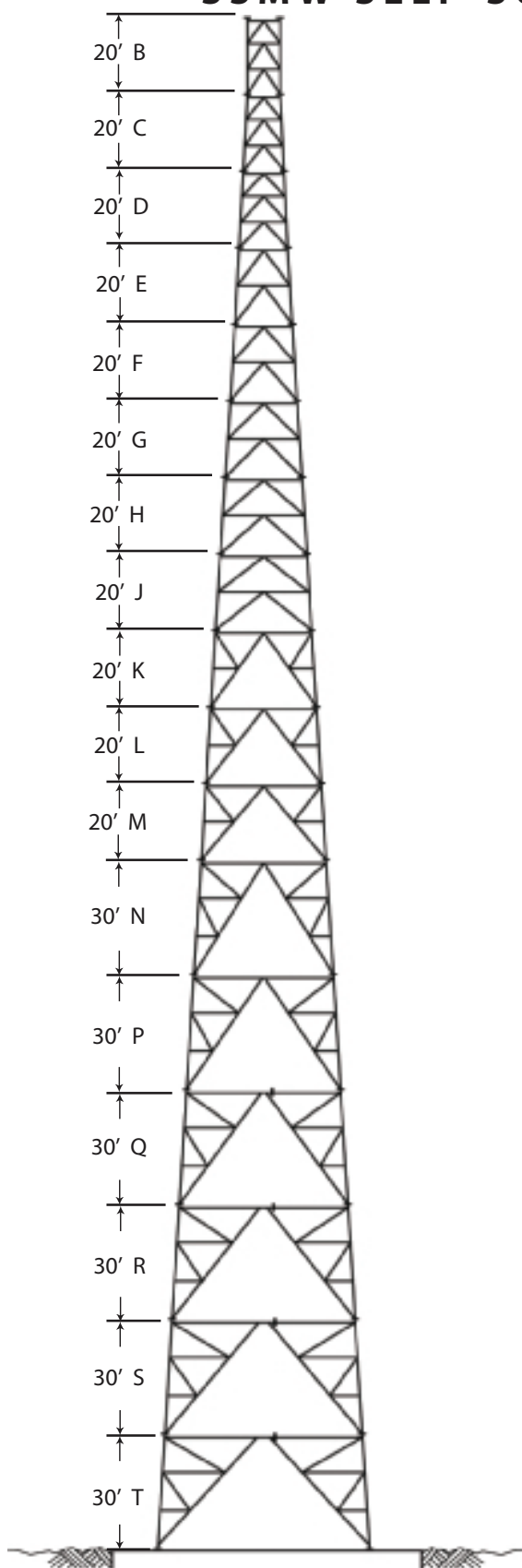


SSMW SELF-SUPPORTING TOWERS

SSMW

GENERAL USE

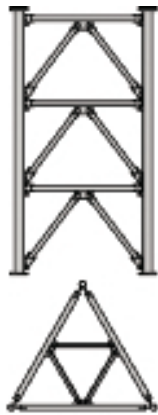
The ROHN SSMW tower is a unique design using a K-Brace system with horizontal plan bracing to allow free standing towers to reach heights to 900'. The SSMW is designed with pipe legs and pipe braces with flanges at each end for connection. The SSMW tower design can be used in conjunction with the SSV tower. All SSMW towers are hot-dip galvanized, inside and out for corrosion protection.



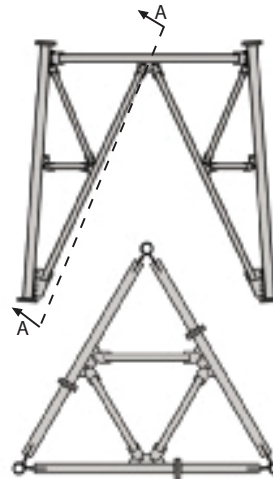
Section Number	Nominal Spread Dimension	
	Upper	Lower
B	8' - 6 1/2"	8' - 6 1/2"
C	8' - 6 1/2"	10' - 7"
D	10' - 7"	12' - 7 1/2"
E	12' - 7 1/2"	14' - 11 1/2"
F	14' - 11 1/2"	17' - 5 1/2"
G	17' - 5 1/2"	19' - 11 1/2"
H	19' - 11 1/2"	22' - 6 1/2"
J	22' - 6 1/2"	25' - 0 1/2"
K	25' - 0 1/2"	27' - 6 1/2"
L	27' - 6 1/2"	30' - 0 1/2"
M	30' - 0 1/2"	32' - 6 1/2"
N	32' - 6 1/2"	36' - 3 1/2"
P	36' - 3 1/2"	40' - 2 1/8"
Q	40' - 2 1/8"	43' - 11 1/8"
R	43' - 11 1/8"	47' - 8 1/8"
S	47' - 8 1/8"	51' - 5 1/8"
T	51' - 5 1/8"	55' - 2 1/8"

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

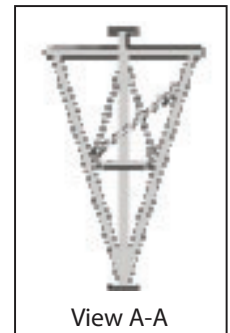
SELF-SUPPORTING SSMW SECTIONS



Typical section assembly detail for sections B, C & D.
Section E, F, G, H & J are identical except
for the number of bays of bracing.



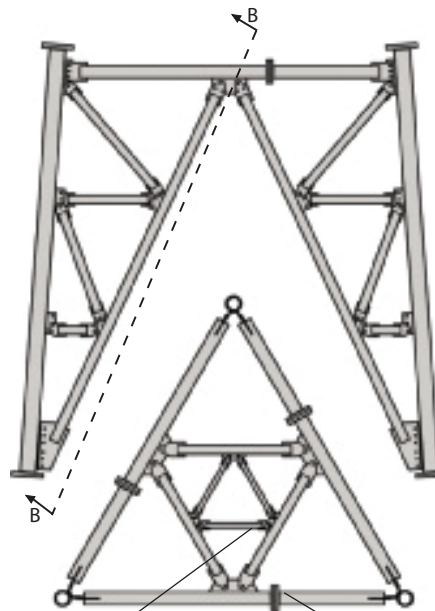
Typical section assembly
detail for sections K, L & M.



View A-A

SSMW SECTIONS

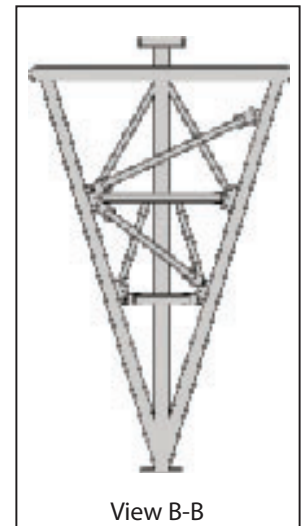
Sections are designed for many different
sizes of braces and legs.



Typical section assembly
detail for sections N, P, Q,
R, S & T.

Secondary horizontal
sub-bracing are used on
sections Q, R, S & T.

Bracing splice
connections are
used on sections
Q through T.



View B-B

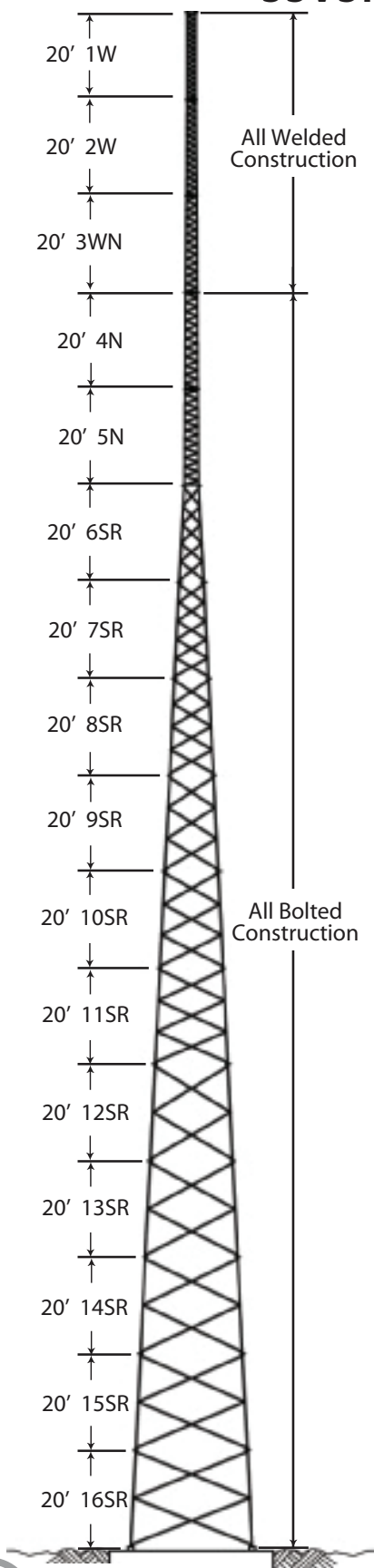


SSVSR SELF-SUPPORTING TOWERS

SSVSR

GENERAL USE

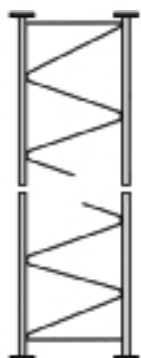
The ROHN SSVSR tower is similar in design to the ROHN SSV tower, but uses solid round legs instead of tubular legs. The SSVSR tower gives the versatility to switch to a solid leg, if desired. The standard side arms, dish mounts, ladders and waveguide supports that are used on the SSV tower can be used on the SSVSR tower. All SSVSR towers are hot-dip galvanized for corrosion protection.



Section Number	Nominal Spread Dimension	
	Upper	Lower
1W	1' - 2"	1' - 2"
2W	1' - 2"	1' - 6"
3WN	1' - 6"	1' - 10"
4N	1' - 10"	2' - 2"
5N	2' - 2"	2' - 6"
6SR	2' - 6"	4' - 6 1/4"
7SR	4' - 6 1/4"	6' - 6 3/4"
8SR	6' - 6 3/4"	8' - 6 3/4"
9SR	8' - 6 3/4"	10' - 6 3/4"
10SR	10' - 6 3/4"	12' - 7 1/4"
11SR	12' - 7 1/4"	14' - 7 7/8"
12SR	14' - 7 7/8"	16' - 8 3/8"
13SR	16' - 8 3/8"	18' - 8 3/8"
14SR	18' - 8 3/8"	20' - 9 3/8"
15SR	20' - 9 3/8"	22' - 9 3/8"
16SR	22' - 9 3/8"	24' - 9 3/8"

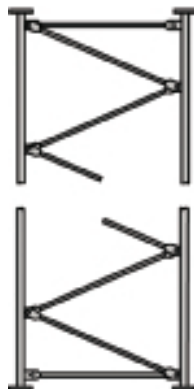
Per Rev G requirements, any structure greater than 10' requires a climber safety device. Please contact ROHN for ordering information.

SELF-SUPPORTING SOLID ROUND LEG SECTIONS



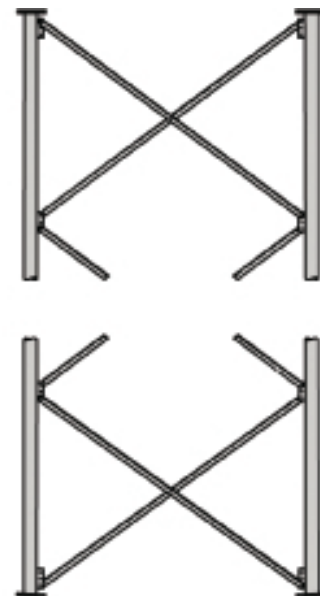
Bracing Detail for Sections 1W - 3WN
Solid Round Legs & Solid Round Braces

*Straight and Tapered Sections
available.*



Bracing Detail for Sections 4N & 5N
Solid Round Legs & Solid Round Braces

*Straight and Tapered Sections
available.*

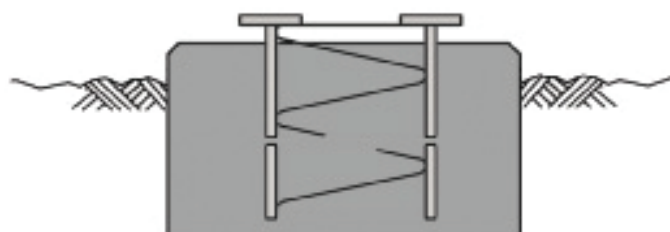


Bracing Detail for Straight Sections 6SR & 11SR
Solid Round Legs & Angle Braces



Bracing Detail for Tapered Sections 6SR - 16SR
Solid Round Legs & Angle Braces

TYPICAL SHORT BASE



Part No: SB2, SB3, SB4 & SB5
*Installed when 2N - 5N sections are
used as tower base.*

Anchor bolt configurations are provided with larger towers.

SSVSR SECTIONS

Sections are designed for many different
sizes of braces and legs.

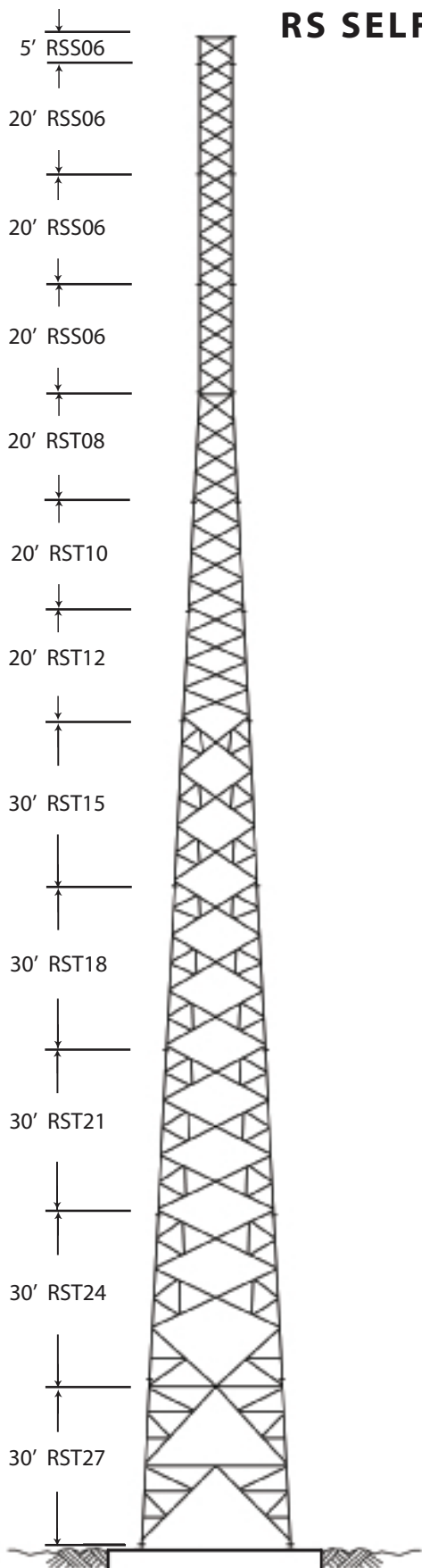


RS SELF-SUPPORTING TOWERS

RS

GENERAL USE

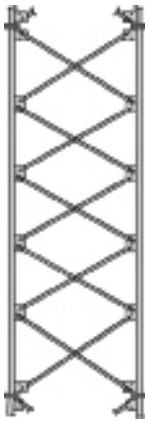
The ROHN RS tower is a unique solid round leg tower that uses angle braces in an X-Brace pattern. The RS tower is custom designed with standard components to shorten lead times. All RS towers are hot-dip galvanized for corrosion protection.



Section Number	Nominal Spread Dimension	
	Upper	Lower
RSS06	6'	6'
RST08	6'	8'
RST10	8'	10'
RST12	10'	12'
RST15	12'	15'
RST18	15'	18'
RST21	18'	21'
RST24	21'	24'
RST27	24'	27'

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

SELF-SUPPORTING RS SECTIONS



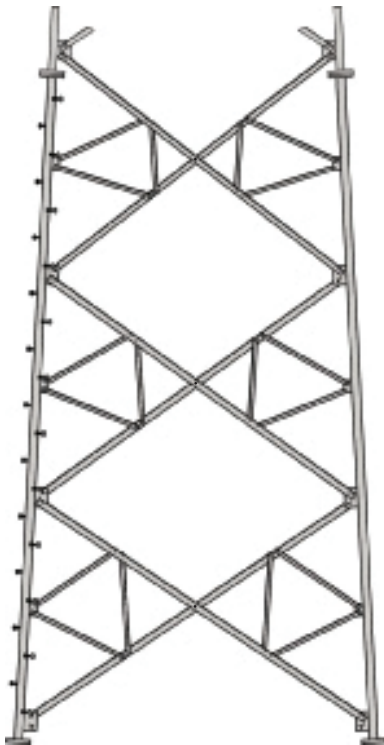
RSS 20' Straight Section
Solid Round Legs & Angle Braces



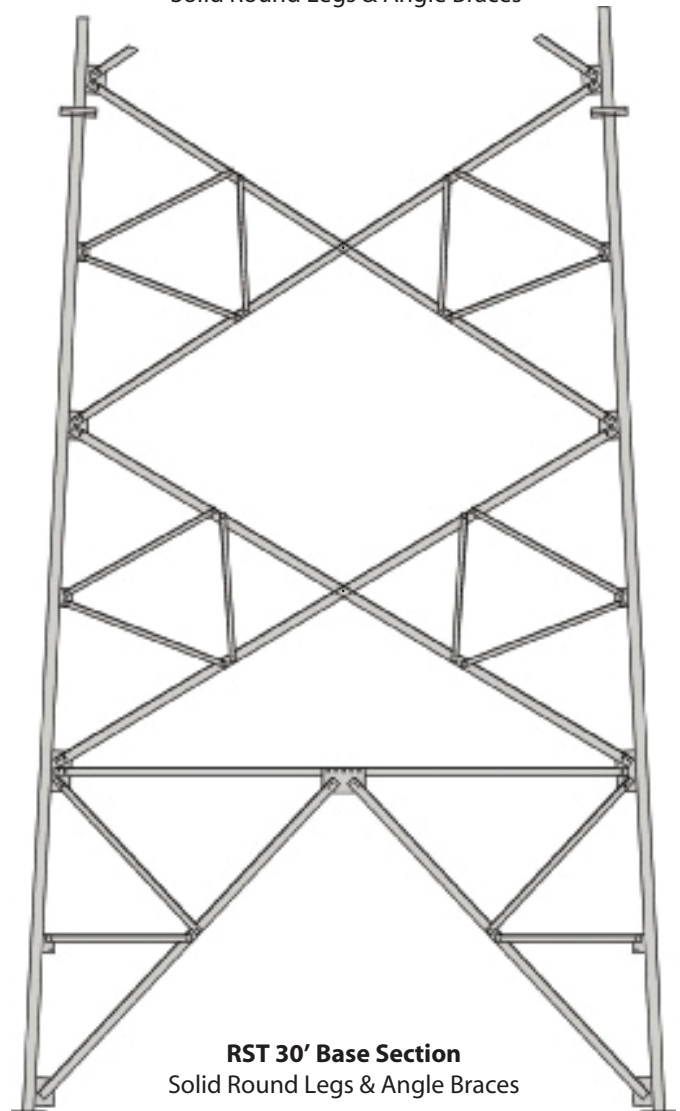
RST 20' Tapered Section
Solid Round Legs & Angle Braces

RS SECTIONS

Sections are designed for many different sizes of braces and legs.



RST 30' Tapered Section
Solid Round Legs & Angle Braces



RST 30' Base Section
Solid Round Legs & Angle Braces

NOTES