

# SELF-SUPPORTING TOWERS





## G SERIES SELF-SUPPORTING TYPICAL

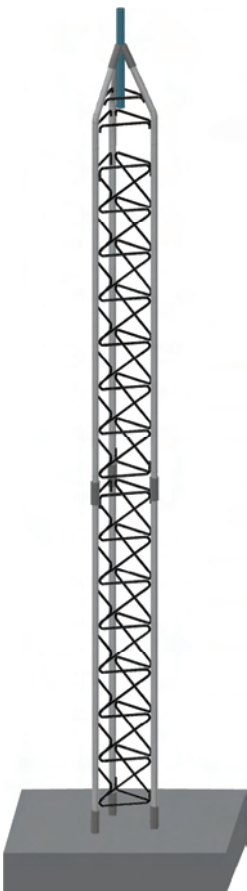
# G-SERIES SELF-SUPPORTING

### 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, with and without ice. See ROHN's standard design 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

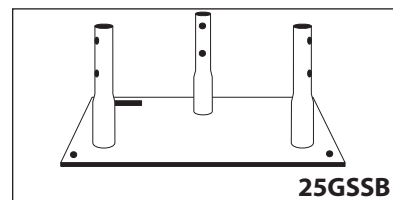
- Completely hot-dip galvanized after fabrication to provide absolute corrosion protection.
- Cross bracing is formed by a continuous solid rod bracing fashioned into a zig-zag pattern for strength.
- Pre-engineered loading charts meet varying individual specs and site conditions.
- Typical uses include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



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



Typical Self-Supporting  
65G Tower





**G SERIES**  
ALLOWABLE ANTENNA AREAS (SQ. FT.)

70 MPH

80 MPH

90 MPH

NO ICE

70 MPH - No Ice								
Height	25G		45G		55G		65G	
	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.
10'	19.7	25SS010	42.5	45SS010	75.0	55SS010	175.9	65SS010
20'	14.2	25SS020	22.0	45SS020	43.0	55SS020	117.0	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 - No Ice								
Height	25G		45G		55G		65G	
	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.
10'	14.3	25SS010	30.0	45SS010	57.0	55SS010	133.0	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 - No Ice								
Height	25G		45G		55G		65G	
	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.
10'	10.5	25SS010	25.0	45SS010	45.0	55SS010	103.6	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



G SERIES  
ALLOWABLE ANTENNA AREAS (SQ. FT.)

70 MPH

80 MPH

90 MPH

1/2" RADIAL ICE

70 MPH - 1/2" Radial Ice								
Height	25G		45G		55G		65G	
	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.
10'	22.8	25SS010	55.0	45SS010	99.0	55SS010	231.4	65SS010
20'	14.4	25SS020	25.0	45SS020	52.0	55SS020	150.0	65SS020
30'	2.5	25SS030	9.0	45SS030	27.0	55SS030	95.0	65SS030
35'	0.0	25SS035	4.7	45SS035	22.2	55SS035	76.4	65SS035
40'	0.0	25SS040	0.0	45SS040	8.0	55SS040	59.1	65SS040
45'					5.5	55SS045	45.7	65SS045
50'					0.0	55SS050	33.5	65SS050
55'					0.0	55SS055	25.0	65SS055
60'					0.0	55SS060	16.0	65SS060
70'							1.9	65SS070
80'							0.0	65SS080

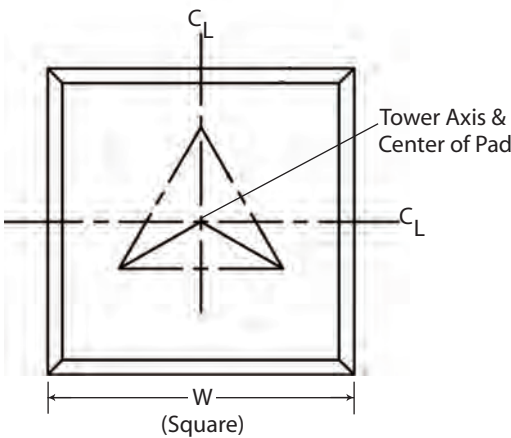
80 MPH - 1/2" Radial Ice								
Height	25G		45G		55G		65G	
	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.
10'	15.5	25SS010	40.0	45SS010	74.0	55SS010	174.3	65SS010
20'	7.1	25SS020	16.0	45SS020	35.0	55SS020	105.0	65SS020
30'	0.0	25SS030	2.7	45SS030	16.0	55SS030	65.0	65SS030
35'	0.0	25SS035	0.0	45SS035	12.4	55SS035	53.4	65SS035
40'			0.0	45SS040	2.5	55SS040	39.0	65SS040
45'					0.0	55SS045	28.8	65SS045
50'					0.0	55SS050	19.1	65SS050
55'							11.4	65SS055
60'							4.1	65SS060
70'							0.0	65SS070

90 MPH - 1/2" Radial Ice								
Height	25G		45G		55G		65G	
	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.	FT. <sup>2</sup>	Part No.
10'	10.5	25SS010	30.0	45SS010	57.0	55SS010	135.0	65SS010
20'	2.1	25SS020	10.0	45SS020	26.0	55SS020	85.0	65SS020
30'	0.0	25SS030	0.0	45SS030	9.0	55SS030	49.0	65SS030
35'			0.0	45SS035	5.7	55SS035	37.7	65SS035
40'					0.0	55SS040	25.0	65SS040
45'					0.0	55SS045	17.2	65SS045
50'							8.0	65SS050
55'							2.6	65SS055
60'							0.0	65SS060

## DESIGN NOTES

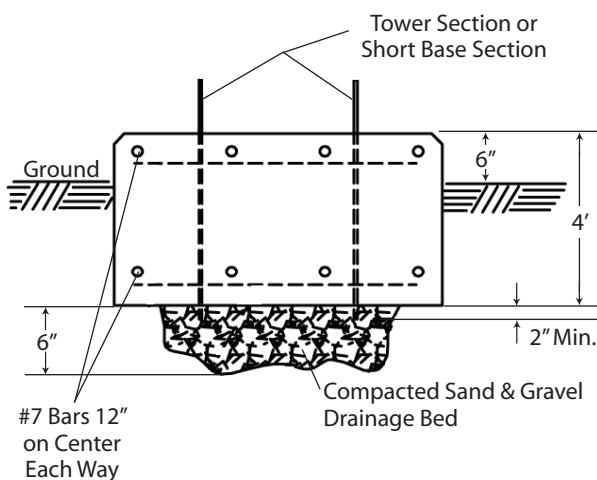
1. Tower designs are in accordance with approved national standard ANSI/EIA-222-F.
2. All towers must have "fixed" bases. Pinned bases may not be used.
3. Designs assume transmission lines symmetrically placed as follows:
  - 25G Tower - One 5/8" Line on each face (Total =3)
  - 45G Tower - One 7/8" Line 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. Allowable antenna areas assume all round antenna members.
6. Allowable flat-plate antenna areas, based on EIA RS-222-C, may be obtained by multiplying areas shown by 0.6.
7. For wind speeds with ice, the areas shown include 1/2" radial ice. Antenna areas without ice must not exceed the areas shown for the no ice condition.

## FOUNDATION INFORMATION



**PLAN VIEW**

Tower	Overtuning Moment (FT. LBS.)	Max. Allow Shear (LBS.)	Width	Concrete Required (Cu. Yds.)
25G	6,800	700	4' - 0"	2.4
45G	12,800	1,600	5' - 3"	4.1
55G	22,900	1,600	6' - 0"	5.3
65G	49,600	3,800	7' - 9"	8.9



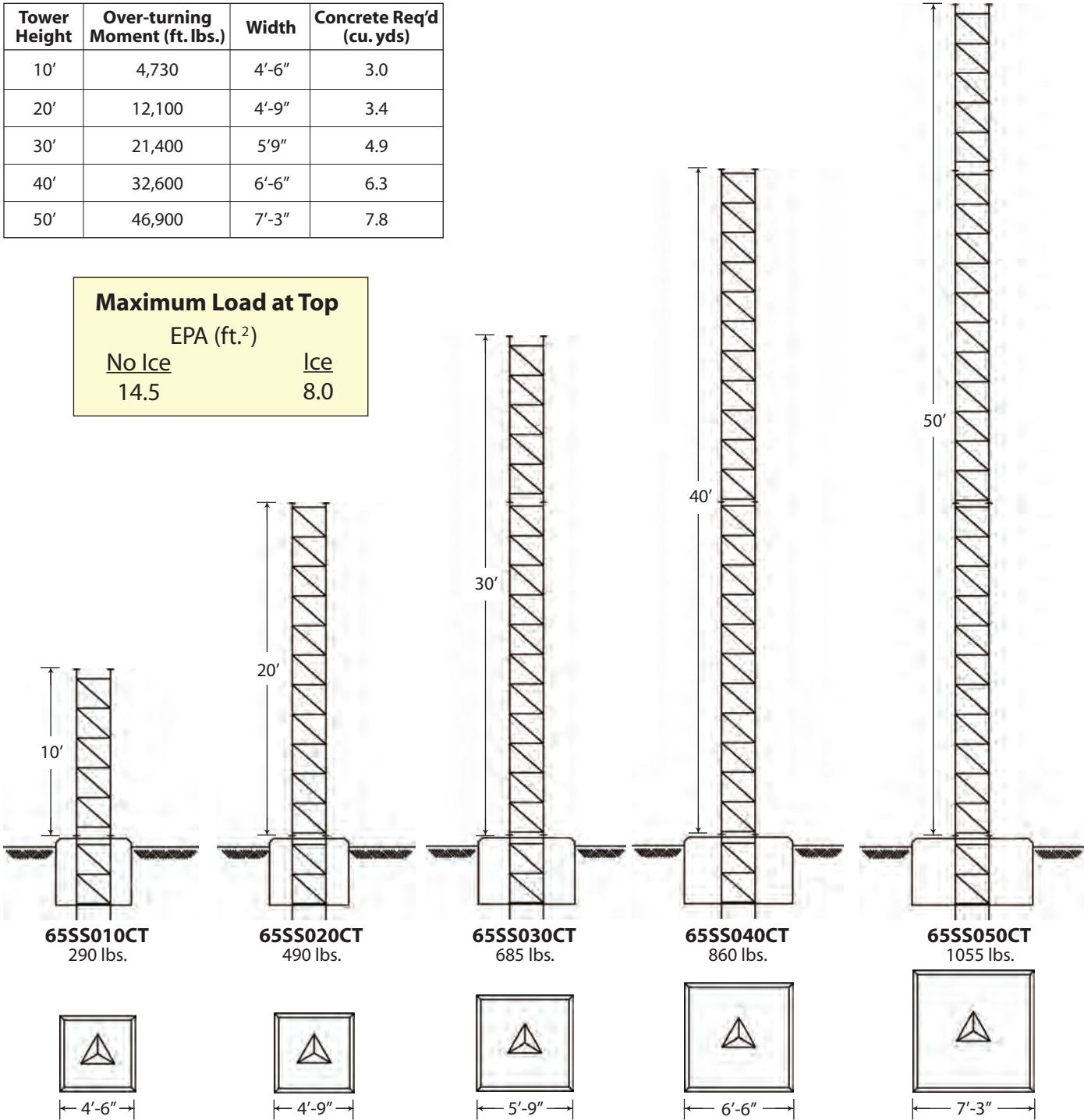
**ELEVATION VIEW**



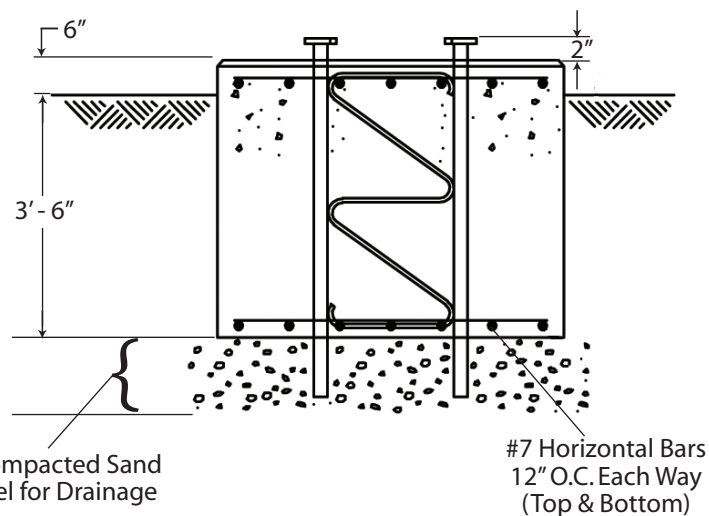
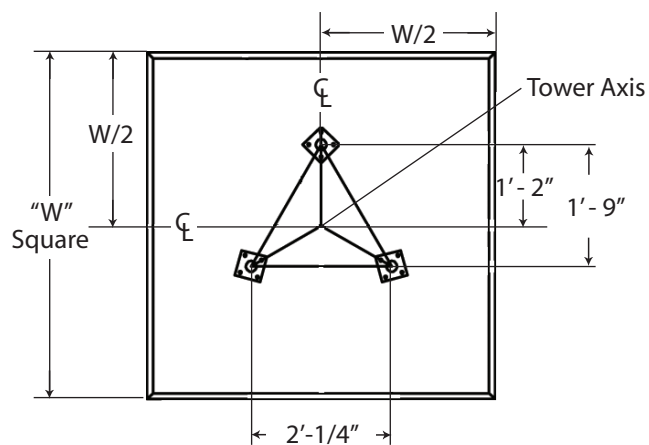
# CAMERA TOWERS SELF-SUPPORTING TYPICAL 90 MPH - 1/2" ICE

Tower Height	Over-turning Moment (ft. lbs.)	Width	Concrete Req'd (cu. yds)
10'	4,730	4'-6"	3.0
20'	12,100	4'-9"	3.4
30'	21,400	5'-9"	4.9
40'	32,600	6'-6"	6.3
50'	46,900	7'-3"	7.8

Maximum Load at Top EPA (ft. <sup>2</sup> )	
No Ice	Ice
14.5	8.0



## CAMERA TOWERS SHORT BASE PIER DETAIL



## ACCESSORIES

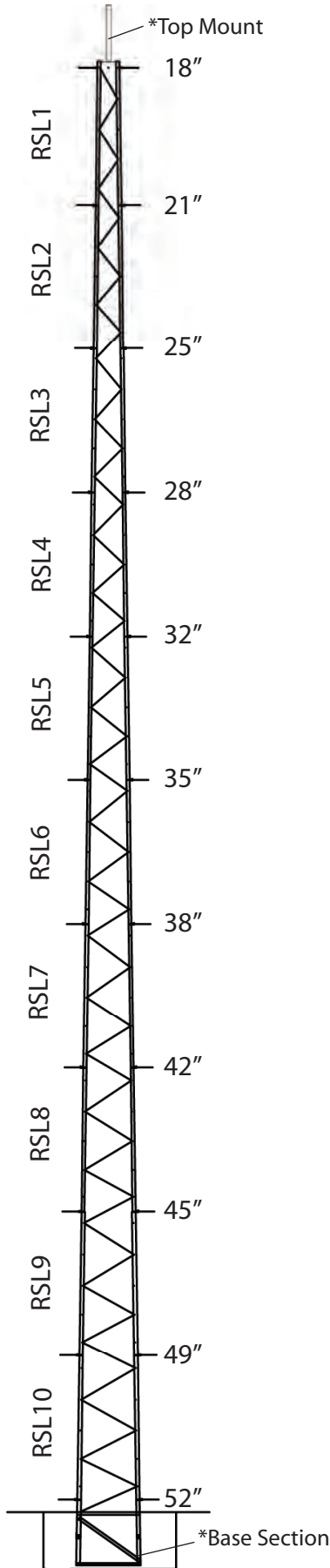
 <p><b>ANTI-CLIMB PANELS</b> VW915A</p>	 <p><b>CLIMBING HARNESS</b> TTFBH-4D 4D RING HARNESS TTFBH-C/P PROFESSIONAL HARNESS</p>	 <p><b>SAFETY CABLE SLIDER</b> TT-WG-500 WIRE ROPE GRAB</p>	<p><b>SAFETY CABLE SYSTEM ORDERING INFORMATION</b></p> <table border="0"> <tr> <td>TOWER HEIGHT</td> <td>PART NUMBER</td> </tr> <tr> <td>50'</td> <td>TT05065</td> </tr> </table>	TOWER HEIGHT	PART NUMBER	50'	TT05065
TOWER HEIGHT	PART NUMBER						
50'	TT05065						

## GENERAL NOTES

1. Tower designs are in accordance with approved national standard ANSI/TIA/EIA-222-F.
2. All towers must have "fixed bases". Pinned bases may not be used.
3. Tower design assumes one 3/4" conduit on tower face.
4. Camera and mount assumed symmetrically placed at tower top.
5. Do not install or dismantle towers within falling distance of electrical and/or telephone lines.
6. Tower erection and dismantling must be done by qualified and experienced personnel.
7. Install warning plate in highly visible location.
8. Where applicable, all camera installations must be grounded in accordance with local and national codes.
9. Tower design assumes work platform mounted 5' below tower top.
10. Climber Safety device is recommended for climbing the tower.
11. Anti-climb device and/or work platform may be supplied as an option.
12. Pal nuts are provided for all tower and anchor bolts.



Section P/N	RSL10	RSL9	RSL8	RSL7	RSL6	RSL5	RSL4	RSL3	RSL2	RSL1
<b>Length</b>	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
<b>Legs P/N</b>	(1) SLLE19 (2) SLLE20	(1) SLLE17 (2) SLLE18	(1) SLLE15 (2) SLLE16	(1) SLLE13 (2) SLLE14	(1) SLLE11 (2) SLLE12	(1) SLLE09 (2) SLLE10	(1) SLLE07 (2) SLLE08	(1) SLLE05 (2) SLLE06	(1) SLLE03 (2) SLLE04	(1) SLLE01 (2) SLLE02
<b>Braces P/N</b>	(15) SLDG10	(15) SLDG09	(15) SLDG08	(15) SLDG07	(15) SLDG06	(15) SLDG05	(15) SLDG04	(15) SLDG03	(15) SLDG02	(15) SLDG01



# RSL

# RSL

## GENERAL USE

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

## FEATURES

- Available in heights from 20' - 100'
- High strength angle legs
- Aerodynamic tubular bracing
- Easy to transport and assemble
- Ships in 10' sections or knocked-down
- Tower material is hot-dip galvanized

\* Optional items are available and may be ordered separately:

- Step bolts
- Safety device
- Top mount kits
- Anti-Climb Panels (for #10 section)
- Dish Mount
- Side Arm



20' Towers

<p><b>Kit: RSL020L102</b></p>		<p><b>Kit: RSL020M304</b></p>		<p><b>Kit: RSL020M506</b></p>		<p><b>Kit: RSL020H708</b></p>		<p><b>Kit: RSL020H910</b></p>	
<b>Base</b>	RSLBA02	<b>Base</b>	RSLBA04	<b>Base</b>	RSLBA06	<b>Base</b>	RSLBA08	<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA01	<b>Top</b>	RSLTA03	<b>Top</b>	RSLTA05	<b>Top</b>	RSLTA07	<b>Top</b>	RSLTA09
<b>Weight</b>	317 lbs.	<b>Weight</b>	327 lbs.	<b>Weight</b>	302 lbs.	<b>Weight</b>	399 lbs.	<b>Weight</b>	477 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	70	<b>70 [85]</b>	80	<b>70 [85]</b>	80	<b>70 [85]</b>	80	<b>70 [85]</b>	80
<b>75 [90]</b>	61	<b>75 [90]</b>	74	<b>75 [90]</b>	80	<b>75 [90]</b>	80	<b>75 [90]</b>	80
<b>80 [100]</b>	53	<b>80 [100]</b>	65	<b>80 [100]</b>	68	<b>80 [100]</b>	80	<b>80 [100]</b>	80
<b>90 [110]</b>	42	<b>90 [110]</b>	48	<b>90 [110]</b>	50	<b>90 [110]</b>	80	<b>90 [110]</b>	80
<b>100 [120]</b>	33	<b>100 [120]</b>	35	<b>100 [120]</b>	36	<b>100 [120]</b>	65	<b>100 [120]</b>	68

30' Towers

<p><b>Kit: RSL030L103</b></p>		<p><b>Kit: RSL030M305</b></p>		<p><b>Kit: RSL030M406</b></p>		<p><b>Kit: RSL030H608</b></p>		<p><b>Kit: RSL030H810</b></p>	
<b>Base</b>	RSLBA03	<b>Base</b>	RSLBA05	<b>Base</b>	RSLBA06	<b>Base</b>	RSLBA08	<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA01	<b>Top</b>	RSLTA03	<b>Top</b>	RSLTA04	<b>Top</b>	RSLTA06	<b>Top</b>	RSLTA08
<b>Weight</b>	440 lbs.	<b>Weight</b>	445 lbs.	<b>Weight</b>	450 lbs.	<b>Weight</b>	551 lbs.	<b>Weight</b>	687 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	70	<b>70 [85]</b>	80	<b>70 [85]</b>	80	<b>70 [85]</b>	80	<b>70 [85]</b>	80
<b>75 [90]</b>	61	<b>75 [90]</b>	74	<b>75 [90]</b>	78	<b>75 [90]</b>	80	<b>75 [90]</b>	80
<b>80 [100]</b>	53	<b>80 [100]</b>	65	<b>80 [100]</b>	64	<b>80 [100]</b>	73	<b>80 [100]</b>	80
<b>90 [110]</b>	41	<b>90 [110]</b>	45	<b>90 [110]</b>	43	<b>90 [110]</b>	55	<b>90 [110]</b>	80
<b>100 [120]</b>	30	<b>100 [120]</b>	29	<b>100 [120]</b>	28	<b>100 [120]</b>	42	<b>100 [120]</b>	60



40' Towers

**Kit: RSL040L104**

<b>Base</b>	RSLBA04
<b>Top</b>	RSLTA01
<b>Weight</b>	585 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	54
<b>75 [90]</b>	44
<b>80 [100]</b>	36
<b>90 [110]</b>	24
<b>100 [120]</b>	15

**Kit: RSL040M205**

<b>Base</b>	RSLBA05
<b>Top</b>	RSLTA02
<b>Weight</b>	590 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	63
<b>75 [90]</b>	52
<b>80 [100]</b>	43
<b>90 [110]</b>	29
<b>100 [120]</b>	19

**Kit: RSL040M407**

<b>Base</b>	RSLBA07
<b>Top</b>	RSLTA04
<b>Weight</b>	639 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	80
<b>75 [90]</b>	75
<b>80 [100]</b>	62
<b>90 [110]</b>	40
<b>100 [120]</b>	25

**Kit: RSL040H609**

<b>Base</b>	RSLBA09
<b>Top</b>	RSLTA06
<b>Weight</b>	788 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	80
<b>75 [90]</b>	80
<b>80 [100]</b>	69
<b>90 [110]</b>	52
<b>100 [120]</b>	40

**Kit: RSL040H710**

<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA07
<b>Weight</b>	876 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	80
<b>75 [90]</b>	80
<b>80 [100]</b>	80
<b>90 [110]</b>	75
<b>100 [120]</b>	49

50' Towers

**Kit: RSL050L105**

<b>Base</b>	RSLBA05
<b>Top</b>	RSLTA01
<b>Weight</b>	735 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	54
<b>75 [90]</b>	44
<b>80 [100]</b>	36
<b>90 [110]</b>	24
<b>100 [120]</b>	15

**Kit: RSL050M206**

<b>Base</b>	RSLBA06
<b>Top</b>	RSLTA02
<b>Weight</b>	742 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	43
<b>75 [90]</b>	34
<b>80 [100]</b>	26
<b>90 [110]</b>	15
<b>100 [120]</b>	6

**Kit: RSL050M307**

<b>Base</b>	RSLBA07
<b>Top</b>	RSLTA03
<b>Weight</b>	786 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	67
<b>75 [90]</b>	54
<b>80 [100]</b>	44
<b>90 [110]</b>	30
<b>100 [120]</b>	16

**Kit: RSL050H509**

<b>Base</b>	RSLBA09
<b>Top</b>	RSLTA05
<b>Weight</b>	938 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	80
<b>75 [90]</b>	73
<b>80 [100]</b>	61
<b>90 [110]</b>	44
<b>100 [120]</b>	30

**Kit: RSL050H610**

<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA06
<b>Weight</b>	1028 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	80
<b>75 [90]</b>	76
<b>80 [100]</b>	66
<b>90 [110]</b>	49
<b>100 [120]</b>	38

<b>Kit: RSL060L106</b>		<b>Kit: RSL060M207</b>		<b>Kit: RSL060M308</b>		<b>Kit: RSL060H409</b>		<b>Kit: RSL060H510</b>	
<b>Base</b>	RSLBA06	<b>Base</b>	RSLBA07	<b>Base</b>	RSLBA08	<b>Base</b>	RSLBA09	<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA01	<b>Top</b>	RSLTA02	<b>Top</b>	RSLTA03	<b>Top</b>	RSLTA04	<b>Top</b>	RSLTA05
<b>Weight</b>	914 lbs.	<b>Weight</b>	931 lbs.	<b>Weight</b>	1026 lbs.	<b>Weight</b>	1086 lbs.	<b>Weight</b>	1217 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	23	<b>70 [85]</b>	40	<b>70 [85]</b>	60	<b>70 [85]</b>	78	<b>70 [85]</b>	80
<b>75 [90]</b>	15	<b>75 [90]</b>	31	<b>75 [90]</b>	48	<b>75 [90]</b>	67	<b>75 [90]</b>	68
<b>80 [100]</b>	9	<b>80 [100]</b>	24	<b>80 [100]</b>	38	<b>80 [100]</b>	54	<b>80 [100]</b>	56
<b>90 [110]</b>	2	<b>90 [110]</b>	13	<b>90 [110]</b>	21	<b>90 [110]</b>	35	<b>90 [110]</b>	40
<b>100 [120]</b>	-	<b>100 [120]</b>	5	<b>100 [120]</b>	11	<b>100 [120]</b>	21	<b>100 [120]</b>	27



70' Towers

18"  
21"  
25"  
28"  
32"  
35"  
38"  
42"



Kit: RSL070L107

<b>Base</b>	RSLBA07
<b>Top</b>	RSLTA01
<b>Weight</b>	1096 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	23
<b>75 [90]</b>	15
<b>80 [100]</b>	9
<b>90 [110]</b>	-
<b>100 [120]</b>	-

21"  
25"  
28"  
32"  
35"  
38"  
42"  
45"



Kit: RSL070M208

<b>Base</b>	RSLBA08
<b>Top</b>	RSLTA02
<b>Weight</b>	1141 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	38
<b>75 [90]</b>	29
<b>80 [100]</b>	21
<b>90 [110]</b>	8
<b>100 [120]</b>	-

25"  
28"  
32"  
35"  
38"  
42"  
45"  
49"



Kit: RSL070M309

<b>Base</b>	RSLBA09
<b>Top</b>	RSLTA03
<b>Weight</b>	1263 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	58
<b>75 [90]</b>	46
<b>80 [100]</b>	36
<b>90 [110]</b>	21
<b>100 [120]</b>	11

28"  
32"  
35"  
38"  
42"  
45"  
49"  
52"



Kit: RSL070H410

<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA04
<b>Weight</b>	1361 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	74
<b>75 [90]</b>	60
<b>80 [100]</b>	48
<b>90 [110]</b>	26
<b>100 [120]</b>	13

80' Towers

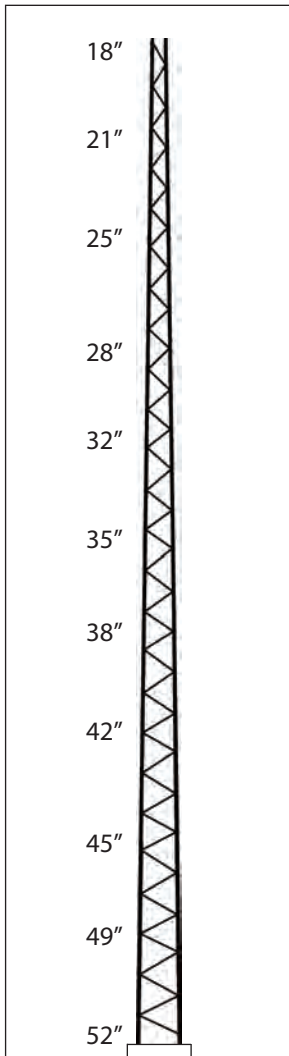
<b>Kit: RSL080L108</b>		<b>Kit: RSL080M209</b>		<b>Kit: RSL080H310</b>	
<b>Base</b>	RSLBA08	<b>Base</b>	RSLBA09	<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA01	<b>Top</b>	RSLTA02	<b>Top</b>	RSLTA03
<b>Weight</b>	1322 lbs.	<b>Weight</b>	1422 lbs.	<b>Weight</b>	1527 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	21	<b>70 [85]</b>	36	<b>70 [85]</b>	52
<b>75 [90]</b>	14	<b>75 [90]</b>	26	<b>75 [90]</b>	39
<b>80 [100]</b>	7	<b>80 [100]</b>	19	<b>80 [100]</b>	26
<b>90 [110]</b>	-	<b>90 [110]</b>	6	<b>90 [110]</b>	10
<b>100 [120]</b>	-	<b>100 [120]</b>	-	<b>100 [120]</b>	-

90' Towers

<b>Kit: RSL090L109</b>		<b>Kit: RSL090H210</b>	
<b>Base</b>	RSLBA09	<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA01	<b>Top</b>	RSLTA02
<b>Weight</b>	1563 lbs.	<b>Weight</b>	1642 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.	<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	19	<b>70 [85]</b>	33
<b>75 [90]</b>	12	<b>75 [90]</b>	23
<b>80 [100]</b>	5	<b>80 [100]</b>	13
<b>90 [110]</b>	-	<b>90 [110]</b>	-
<b>100 [120]</b>	-	<b>100 [120]</b>	-



100' Towers



Kit: RSL100S110

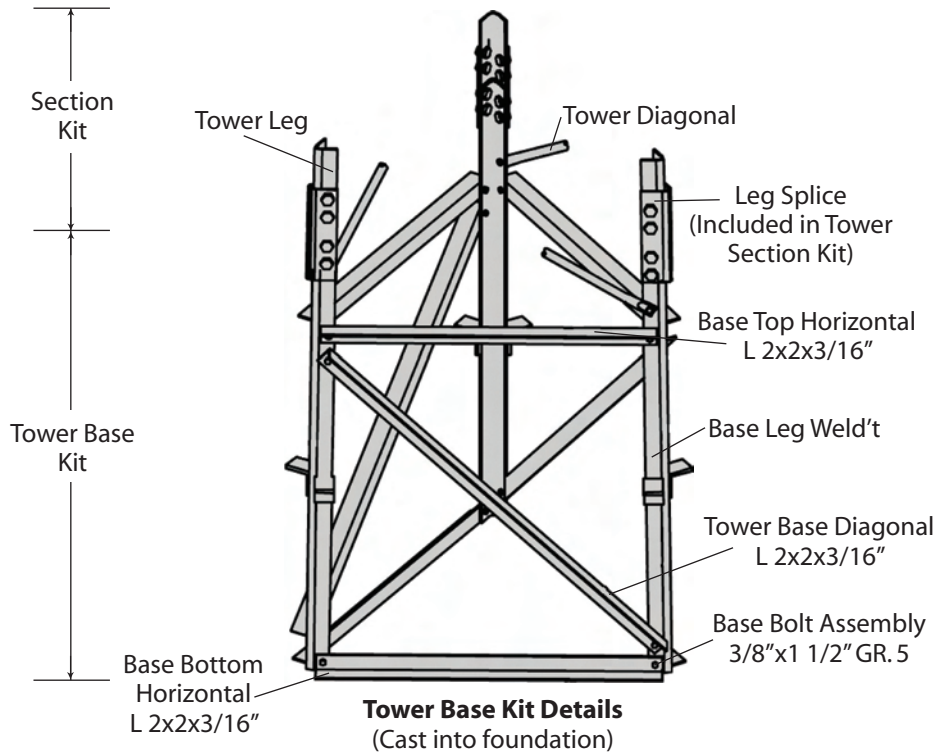
<b>Base</b>	RSLBA10
<b>Top</b>	RSLTA01
<b>Weight</b>	1808 lbs.
<b>Fastest Mile [3-sec Gust]</b>	E.P.A.
<b>70 [85]</b>	17
<b>75 [90]</b>	8
<b>80 [100]</b>	-
<b>90 [110]</b>	-
<b>100 [120]</b>	-

OPTIONAL ACCESSORIES

<p>Top Mount</p>	<p><b>RSLTM12</b> Fits Towers: RSL020L102 RSL030L103 RSL040L104 RSL050L105 RSL060L206 RSL070L107 RSL080L108 RSL080M209 RSL090L109 RSL090H210 RSL100S110</p>	<p><b>RSLTM34</b> Fits Towers: RSL020M304 RSL030M305 RSL040M306 RSL050M307 RSL060M308 RSL070M309 RSL070H410 RSL080H310</p> <p><b>RSLTM56</b> Fits Towers: RSL050H509 RSL060H510</p>																				
<p>Side Arm - RLSA</p>	<p>Dish Mount - RSLDM</p>																					
<p>Anti-Climb Panel RSLAC10</p>	<p>Step Bolt Kit Ordering Information</p> <table border="1"> <thead> <tr> <th>TOWER HEIGHT</th> <th>PART NUMBER</th> </tr> </thead> <tbody> <tr> <td>20'</td> <td><b>RSLSB20</b></td> </tr> <tr> <td>30'</td> <td><b>RSLSB30</b></td> </tr> <tr> <td>40'</td> <td><b>RSLSB40</b></td> </tr> <tr> <td>50'</td> <td><b>RSLSB50</b></td> </tr> <tr> <td>60'</td> <td><b>RSLSB60</b></td> </tr> <tr> <td>70'</td> <td><b>RSLSB70</b></td> </tr> <tr> <td>80'</td> <td><b>RSLST80</b></td> </tr> <tr> <td>90'</td> <td><b>RSLSB90</b></td> </tr> <tr> <td>100'</td> <td><b>RSLSB100</b></td> </tr> </tbody> </table>		TOWER HEIGHT	PART NUMBER	20'	<b>RSLSB20</b>	30'	<b>RSLSB30</b>	40'	<b>RSLSB40</b>	50'	<b>RSLSB50</b>	60'	<b>RSLSB60</b>	70'	<b>RSLSB70</b>	80'	<b>RSLST80</b>	90'	<b>RSLSB90</b>	100'	<b>RSLSB100</b>
TOWER HEIGHT	PART NUMBER																					
20'	<b>RSLSB20</b>																					
30'	<b>RSLSB30</b>																					
40'	<b>RSLSB40</b>																					
50'	<b>RSLSB50</b>																					
60'	<b>RSLSB60</b>																					
70'	<b>RSLSB70</b>																					
80'	<b>RSLST80</b>																					
90'	<b>RSLSB90</b>																					
100'	<b>RSLSB100</b>																					
		<p>Safety Cable Systems</p> <table border="1"> <thead> <tr> <th>Tower Height</th> <th>Part Number</th> </tr> </thead> <tbody> <tr> <td>20' - 50'</td> <td><b>RSL050TT</b></td> </tr> <tr> <td>60' - 100'</td> <td><b>RSL100TT</b></td> </tr> </tbody> </table>		Tower Height	Part Number	20' - 50'	<b>RSL050TT</b>	60' - 100'	<b>RSL100TT</b>													
Tower Height	Part Number																					
20' - 50'	<b>RSL050TT</b>																					
60' - 100'	<b>RSL100TT</b>																					

Grounding Kit shown on page 126.

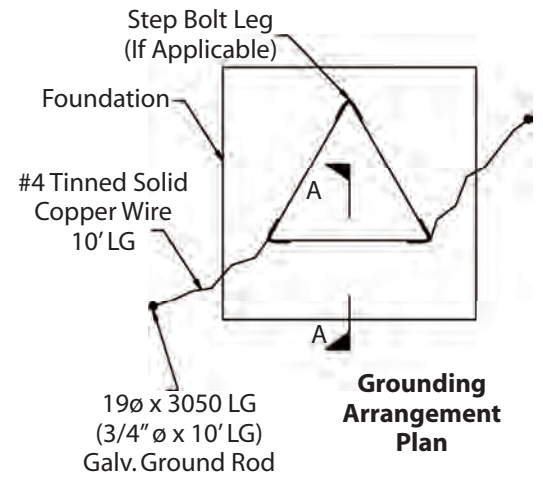
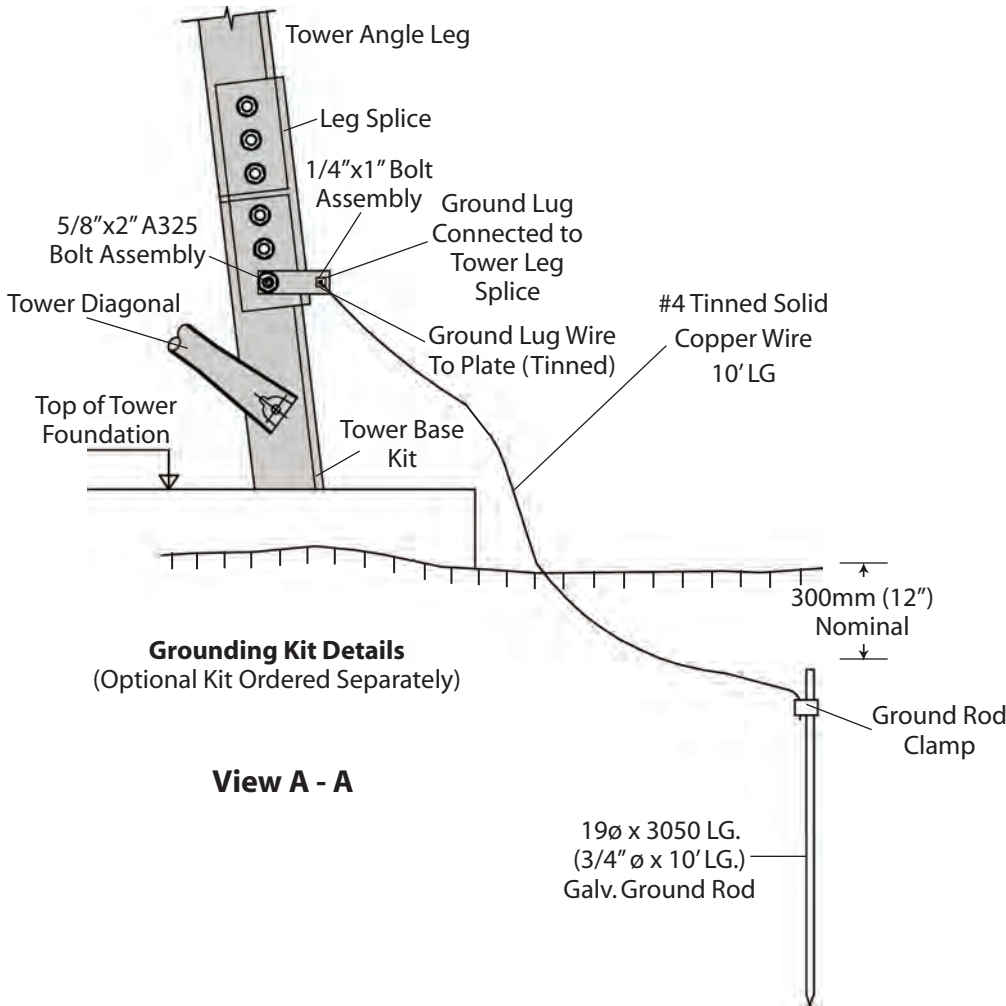
## RSL BASE KIT INFORMATION



Tower Base Kit #	Total (lbs.)
RSLBA02 (Section RSL2)	126
RSLBA03 (Section RSL3)	132.5
RSLBA04 (Section RSL4)	136
RSLBA05 (Section RSL5)	142.5
RSLBA06 (Section RSL6)	149.5
RSLBA07 (Section RSL7)	161.5
RSLBA08 (Section RSL8)	166.5
RSLBA09 (Section RSL9)	173.5
RSLBA10 (Section RSL10)	185.5



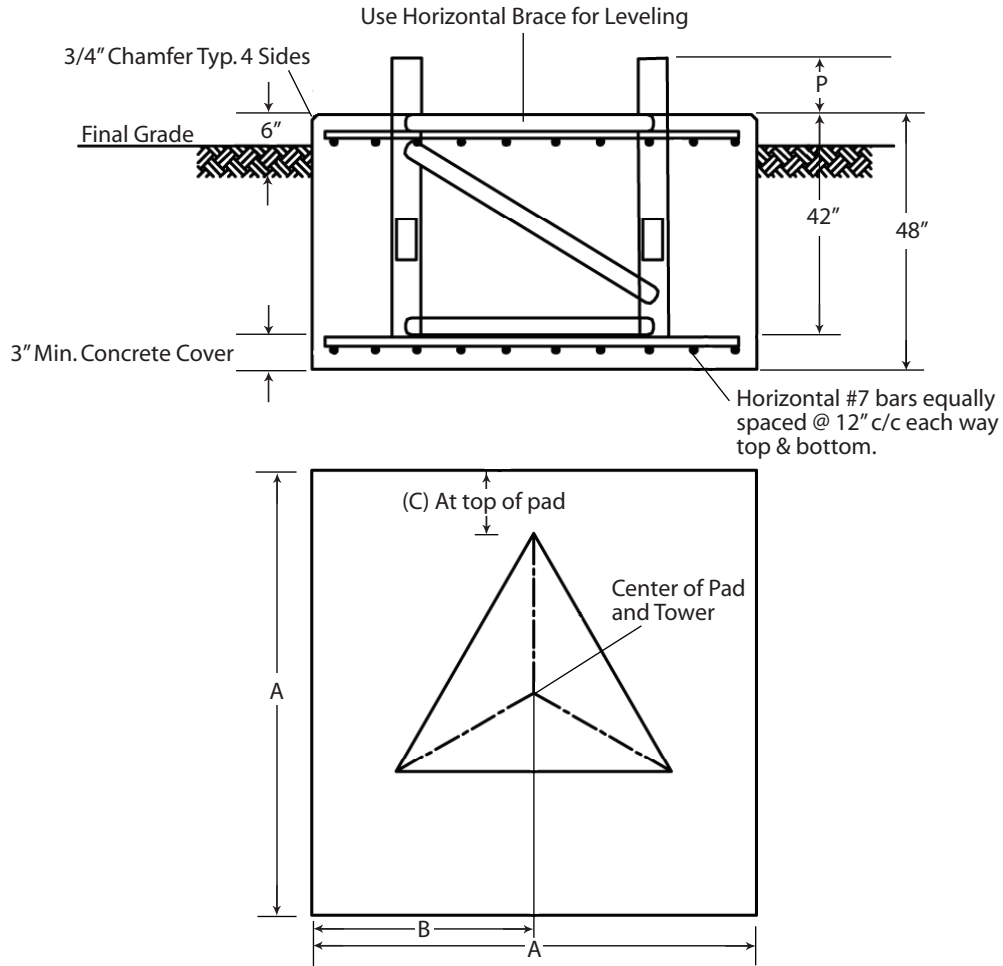
# RSL GROUNDING



RSLGR Grounding Kit - Bill of Material	
Description	Qty.
Grounding Lug Galv. BAR .25x1.5" (A36)	2
3/4 DIA. Galv. GRD Rod (10')	2
GRD Clamp Wire to Galv. Rod	2
GRD Wire #4 Solid Copper Tinned (10')	2
GRD Clamp Wire to Plate (Tinned)	2
1/4"x1" Bolt Assembly	2
5/8"x2" Bolt Assembly (A325)	2
Lock Washer 5/8 (Spring) Galv.	2



## RSL FOUNDATION INFORMATION



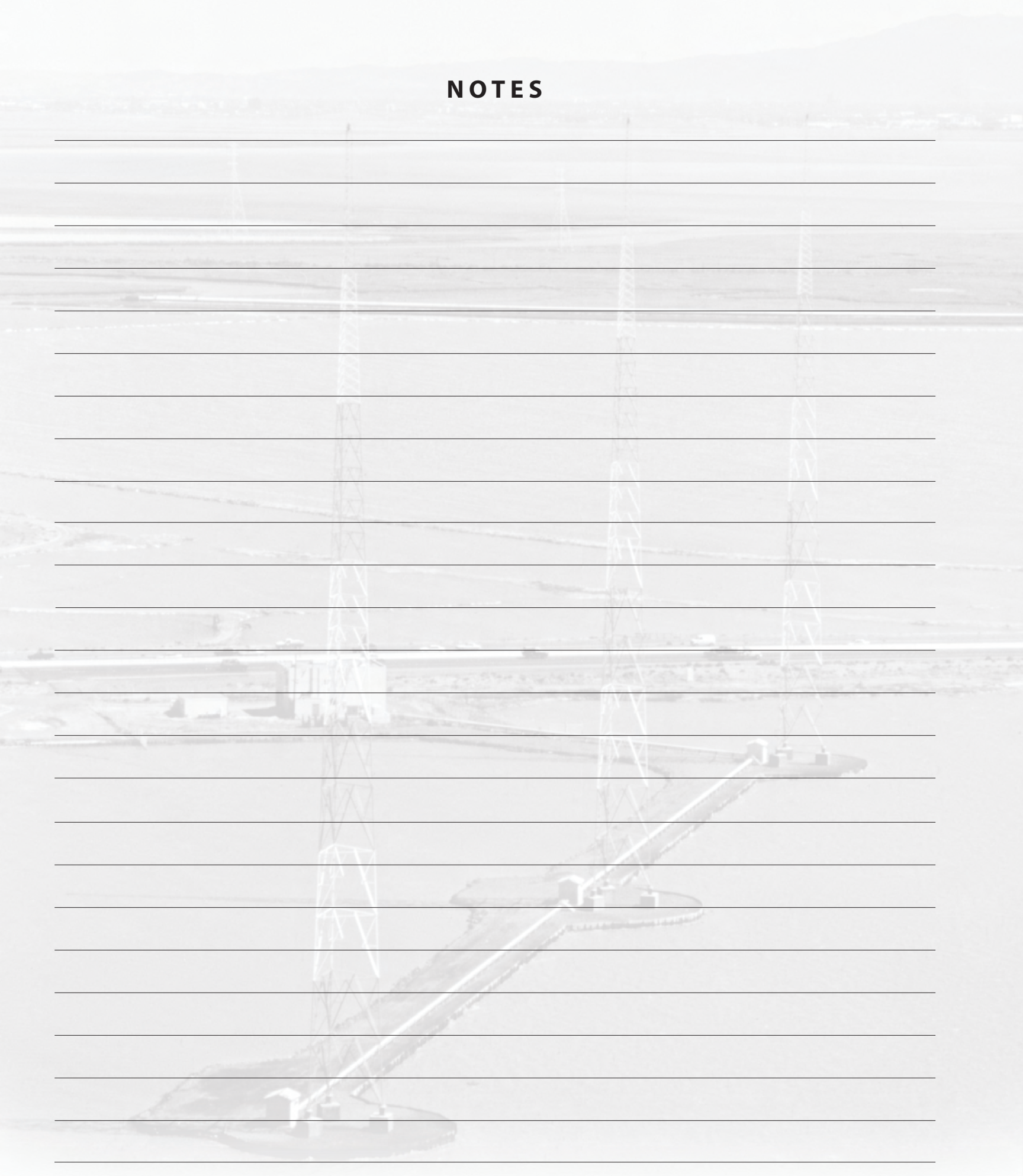
Stub Base Section No.	Dimensions (in.)				Concrete (Cu. Yds)	No. 7 Bars Req.	Max. Base Reactions	
	A	B	C	P			Overturning (KIP-FT)	Shear (KIPS)
RSLBA02	84	42	28	10-1/2	7.3	32	51	3.0
RSLBA03	90	45	29	12-1/2	8.3	32	57	3.0
RSLBA04	90	45	27	11-1/4	8.3	32	65	3.0
RSLBA05	96	48	28	11-1/2	9.5	36	71	3.0
RSLBA06	96	48	26	12	9.5	36	78	3.0
RSLBA07	108	54	30	13	12.0	40	114	4.0
RSLBA08	114	57	31	12-3/4	13.4	40	124	4.5
RSLBA09	120	60	32	13-1/2	14.8	44	171	5.0
RSLBA10	126	63	33	12-3/4	16.3	44	184	5.5



## RSL DESIGN GENERAL NOTES

1. Tower designs conform to ANSI/TIA/EIA-222-F for the basic wind speeds indicated without ice. Tower designs also conform to the ANSI/TIA/EIA Standard for 1/2 inch radial ice load occurring simultaneously with 75% of the no ice design wind pressures. The appropriate design criteria for a site must be verified prior to installation.
2. Antennas and mounts are assumed to be symmetrically mounted at or below the top of the tower for determining overall reactions and member forces. Design assumes the weight of antennas and mounts do not exceed 300 lbs. Local stresses due to mounting arrangements for site-specific applications have not been considered and must be investigated by others on an individual site basis.
3. The allowable effective projected areas (EPA) indicated include the summation of the projected areas of antennas and mounts multiplied by their appropriate drag factors. The allowable effective projected areas are based on applications without the use of anti-climb panels. The use of anti-climb panels will reduce the allowable effective projected areas indicated. When 1/2 inch of radial ice is to be considered for an application, the additional EPA of the ice of antennas and mounts shall be included in the summation.
4. Design assumes maximum top mast load is limited to 5 sq. ft. EPA and 100 lbs. vertical load. All other loading is assumed to be mounted below the top mast.
5. Tower designs assume a 1/2 inch transmission line for each 10 square feet of EPA up to a maximum of three lines, one line per tower face.
6. Foundation designs are in accordance with ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures", section 7, for all "normal" soil conditions. "Normal" soil is defined as dry, cohesive soil with an allowable net vertical bearing capacity of 4000 PSF and an allowable net horizontal pressure of 400 PSF per linear foot of depth to a maximum of 4000 PSF.

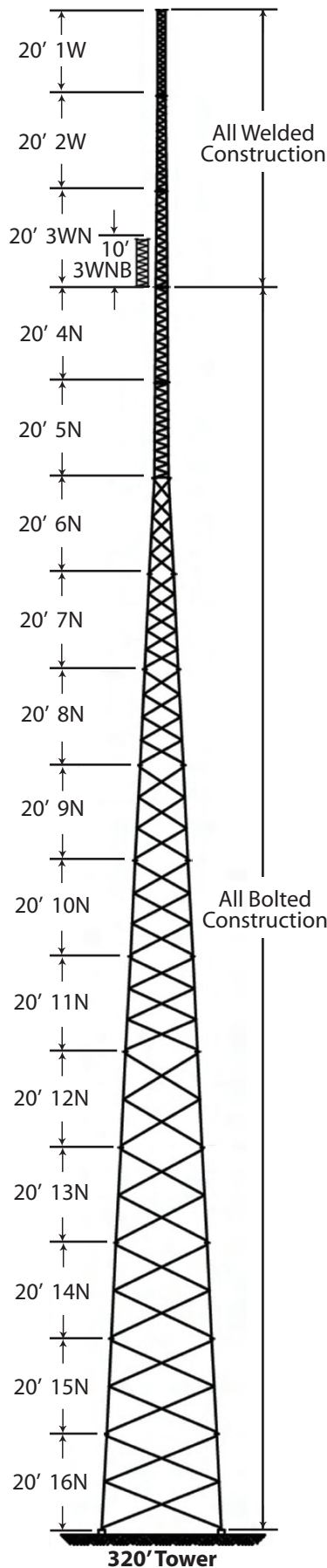
# NOTES





# SELF-SUPPORTING

# SSV



## GENERAL USE

The ROHN SSV tower has been in service for over 30 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 and Sports Lighting and more. The SSV has proven to be one of the industry's most efficient and preferred structures. All ROHN towers are hot-dip galvanized, inside and out 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"
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"



**SELF-SUPPORTING**  
 40' - 190'  
 70 MPH [NO ICE]

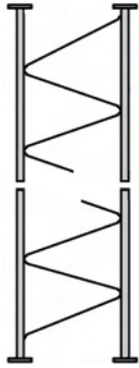
Tower Height (ft.)	Tower Assembly Number	Allowable Projected Area		Top Section	Base Section			Base Reactions			
		Tower Top Rounds (Flats)	30' Below Top Rounds (Flats)		Part Number	A-Bolts 12 Req.	Face Spread	Down load (lbs.)	Uplift (lbs.)	Shear (lbs.)	OTM (ft. lbs.)
40	SS040D70	16.7 (10)	20 (12)	2W	3WN	SB3	1' - 10	14,300	13,500	970	22,000
50	SS050D70	15 (9)	18.3 (11)	1WB	3WN	SB3	1' - 10	19,200	18,400	970	29,700
60	SS060D70	15 (9)	18.3 (11)	2W	4N	SB4	2' - 2	23,000	21,900	1,100	42,100
70	SS070D70	13.3 (8)	16.7 (10)	1WB	4N	SB4	2' - 2	27,300	26,100	1,130	50,000
80	SS080D70	13 (8)	16.7 (10)	2W	5N	SB5	2' - 6	31,600	30,100	1,320	66,500
90	SS090D70	11.7 (7)	15 (9)	1WB	5N	SB5	2' - 6	35,200	33,600	1,330	74,200
100	SS100D70	11.7 (7)	15 (9)	2W	6N62	5/8X42	4' - 6 1/4	26,000	24,100	1,850	97,900
110	SS110D70	10 (6)	14.2 (8.5)	1WB	6N62	5/8X42	4' - 6 1/4	28,200	26,200	1,870	106,300
120	SS120D70	10 (6)	14.2 (8.5)	2W	7N165	5/8X42	6' - 6 3/4	26,300	24,000	2,510	141,700
130	SS130D70	9.2 (5.5)	13.3 (8)	1WB	7N165	5/8X42	6' - 6 3/4	28,300	25,900	2,540	152,600
140	SS140D90	9.2 (5.5)	13.3 (8)	2W	8N106	5/8X42	8' - 6 3/4	29,200	26,300	3,310	204,100
150	SS150D70	8.3 (5)	12.5 (7.5)	1WB	8N106	5/8X42	8' - 6 3/4	30,800	27,800	3,340	215,300
160	SS160D70	8.3 (5)	12.5 (7.5)	2W	9N325	5/8X42	10' - 6 3/4	33,300	29,900	4,230	286,400
170	SS170D70	7.5 (4.5)	12.5 (7.5)	1WB	9N325	5/8X42	10' - 6 3/4	34,900	31,500	4,280	301,000
180	SS180D70	7.5 (4.5)	12.5 (7.5)	2W	10N387	3/4X48	12' - 7 1/4	38,500	34,500	5,350	395,700
190	SS190D70	6.7 (4)	11.7 (7)	1WB	10N387	3/4X48	12' - 7 1/4	39,700	35,600	5,380	407,700

**General Notes:**

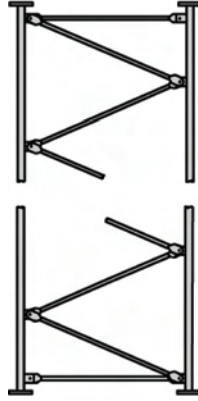
1. Tower designs are in accordance with approved national standard ANSI/EIA-222-F-1996 (no ice).
2. Equivalent flat-plate antenna areas based on EIA RS-222-C, must not exceed the areas shown for flat member antennas.
3. Tower designs assume allowable projected areas are symmetrically placed on the tower.
4. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one per face.
5. Do not install or dismantle tower within falling distance of electrical and/or telephone lines.
6. Tower erection and dismantling must be done by qualified and experienced personnel.
7. Install warning plate (P/N: ACWS) in a highly visible location.
8. All antenna installations must be grounded in accordance with local and national codes.
9. All towers are provided with a (P/N: ITT) tapered top.



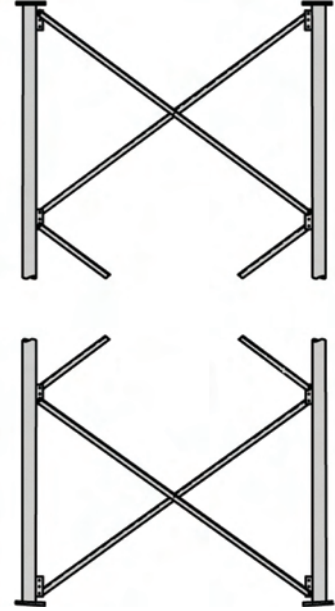
# SELF-SUPPORTING STANDARD SECTIONS



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



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

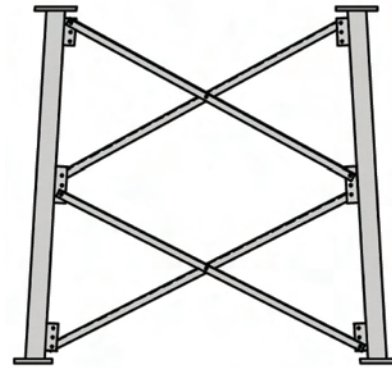


Bracing Detail for Sections 6N & 11N  
Tubular Legs & Angle Braces

## STANDARD SECTIONS

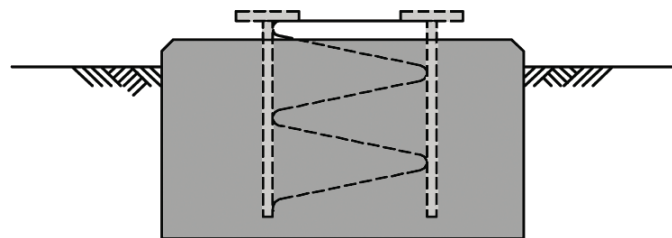
Section No.	Weights		
	Legs	Braces	Total
1W	-	-	107
2W	-	-	156
3WN	-	-	235
4N	260	175	435
5N	345	195	540
6N	290	190	480
7N	300	245	545
8N	426	274	700
9N	420	300	720
10N	430	400	830
11N	570	840	1,410
12N	690	825	1,515
13N	790	910	1,700
14N	845	1,625	2,470
15N	1,155	2,000	3,155
16N	1,155	2,150	3,305

\* All weights are approximate. Total section weight depends on final design.



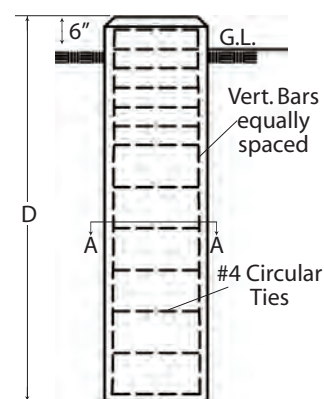
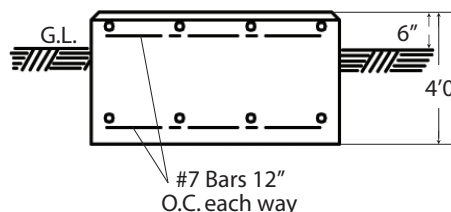
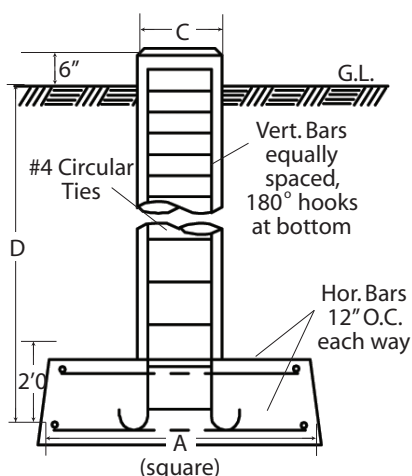
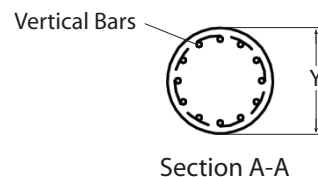
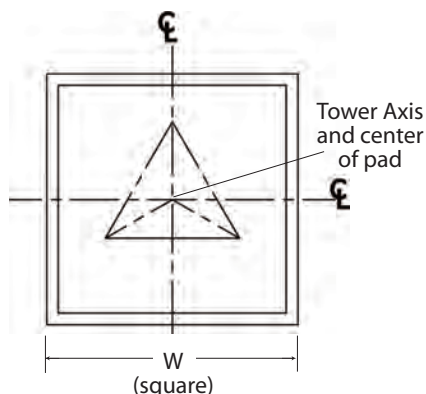
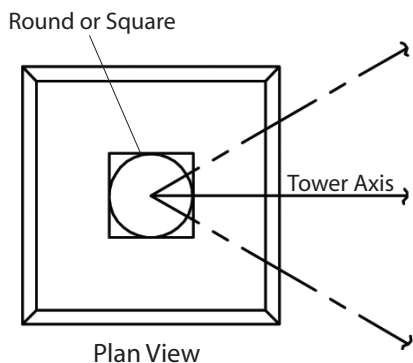
Bracing Detail for Sections 12N & 16N  
Tubular Legs & Angle Braces

## TYPICAL SHORT BASE



Part No: SB2, SB3, SB4 & SB5

## SELF-SUPPORTING STANDARD FOUNDATIONS



Pier & Pad Elevation View

Mat Elevation View

Drilled Pier Elevation View

Tower Base Sect No.	Allow. Leg Load (lbs.)	Allow. Shear (lbs. per leg)	Anchor Bolt Data						Pier & Pad						Mat		Drilled Pier				
			Layout Dimensions			Size 12 Rec'd or Short Base	Bolt Circle Dia. (in.)	Proj. (in.)	Dimensions			Vert. Bars	Hor. Bars	Req'd Conc. (cu.yds. 3 fdns)		W	Req'd Conc. (cu.yds.)	D	Y	Vert. Bars	Req'd Conc. (cu.yds.)
			M	N	R				D	A	C			Round	Square						
1W	4,530	-	1'2	1'01/8	0'81/16	-	221/32	-	-	-	-	-	-	-	4'0	24	-	-	-	-	
2W	11,200	-	1'6	1'39/16	0'103/8	SB2	221/32	-	-	-	-	-	-	-	5'6	4.5	-	-	-	-	
3WN	19,600	-	1'10	1'71/16	1'011/16	SB3	31/2	-	-	-	-	-	-	-	6'9	6.8	-	-	-	-	
4N	28,000	-	2'2	1'101/2	1'3	SB4	41/4	-	-	-	-	-	-	-	8'0	9.5	-	-	-	-	
5N	36,000	-	2'6	2'2	1'55/16	SB5	41/4	-	-	-	-	-	-	-	8'9	11.3	-	-	-	-	
6N	33,730	-	4'61/4	3'11	2'715/16	5/8X42	415/16	31/2	-	-	-	-	-	-	10'3	15.6	-	-	-	-	
7N	33,730	4,000	6'63/4	5'83/16	3'91/2	5/8X42	415/16	31/2	8'0	4'6	2'0	(8)#6	#6	6.3	6.9	11'6	19.6	-	-	-	-
8N	52,530	6,000	8'63/4	7'5	4'115/16	5/8X42	415/16	31/2	8'9	5'6	2'0	(8)#7	#6	8.7	9.4	14'3	30.1	18'6	2'6	(10)#6	10.4
9N	43,600	7,500	10'63/4	9'13/4	6'13/16	5/8X42	415/16	31/2	8'9	5'6	2'0	(8)#7	#6	8.7	9.4	16'0	37.9	16'0	2'6	(10)#6	9.0
10N	43,600	10,000	12'71/4	10'11	7'35/16	3/4X48	521/32	4	8'9	5'6	2'0	(8)#7	#6	8.7	9.4	18'3	49.3	16'0	2'6	(10)#6	9.0
11N	64,930	10,000	14'77/8	12'815/16	8'59/16	7/8X60	71/16	5	10'0	5'6	2'6	(8)#8	#6	10.8	12.0	-	-	21'9	2'6	(10)#6	12.2
12N	63,600	10,000	16'83/8	16'25/16	9'711/16	7/8X60	71/16	5	10'0	5'6	2'6	(8)#8	#6	10.8	12.0	-	-	21'6	2'6	(10)#6	12.0
13N	82,930	10,000	18'83/8	17'1115/16	10'99/16	7/8X60	71/16	5	11'0	5'6	2'6	(10)#8	#6	11.3	12.7	-	-	22'0	3'0	(12)#6	17.7
14N	82,930	10,000	20'93/8	19'83/4	12'0	1X70	91/2	51/2	11'0	5'6	2'6	(10)#8	#6	11.3	12.7	-	-	22'0	3'0	(12)#6	17.7
15N	123,330	15,000	22'93/8	22'93/8	13'113/16	1X70	91/2	51/2	12'6	6'6	3'0	(12)#8	#6	17.3	19.7	-	-	27'6	3'6	(12)#7	30.0
16N	129,330	15,000	24'93/8	21'59/16	14'311/16	1X70	91/2	51/2	12'6	6'6	3'0	(12)#8	#6	17.3	19.7	-	-	27'6	3'6	(12)#7	30.0

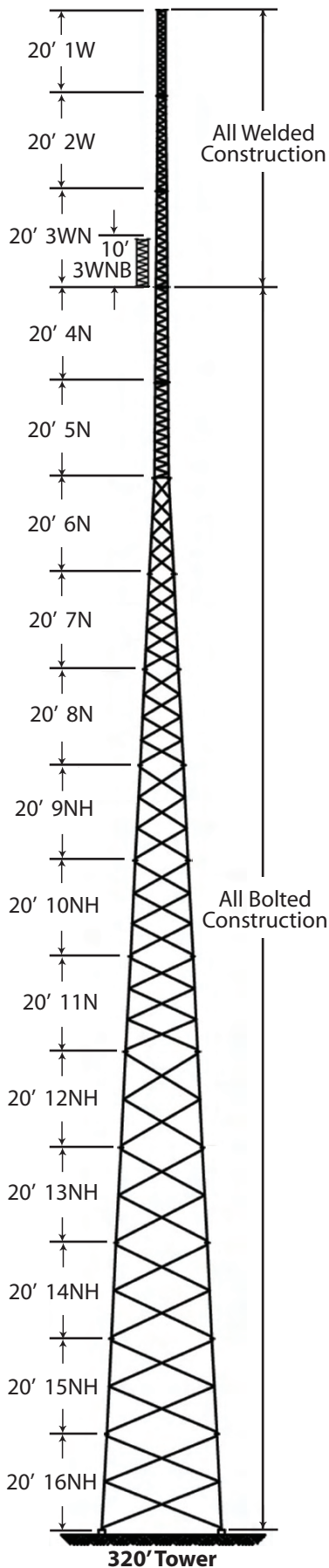


SELF-SUPPORTING

# SSV HEAVY DUTY

### GENERAL USE

The ROHN SSV HD has the same features and utility as the SSV tower, but with Heavy Duty legs and braces. The heavy duty 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 towers are hot-dip galvanized, inside and out 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"
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"





**SELF-SUPPORTING**  
**40' - 190'**  
**90 MPH [NO ICE]**

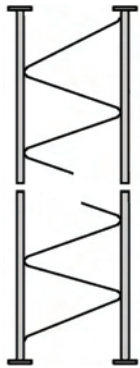
Tower Height (ft.)	Tower Assembly Number	Allowable Projected Area		Top Section	Base Section			Base Reactions			
		Tower Top Rounds (Flats)	30' Below Top Rounds (Flats)		Part Number	A-Bolts 12 Req.	Face Spread	Down load (lbs.)	Uplift (lbs.)	Shear (lbs.)	OTM (ft. lbs.)
40	SS040D90	16.7 (10)	20 (12)	3WN	4N	SB4	2' - 2	20,800	19,800	1,700	38,100
50	SS050D90	16.7 (10)	20 (12)	3WNB	5N	SB5	2' - 6	27,900	26,600	1,950	58,900
60	SS060D90	14.2 (8.5)	17.5 (10.5)	3WN	5N	SB6	2' - 6	33,700	32,400	1,930	71,400
70	SS070D90	14.2 (8.5)	17.5 (10.5)	3WNB	6N	5/8X42AB	4' - 6 1/4	27,100	25,500	2,760	103,100
80	SS080D90	12.5 (7.5)	15.8 (9.5)	3WN	6N	5/8X42AB	4' - 6 1/4	31,300	29,600	2,820	119,300
90	SS090D90	12.5 (7.5)	15.8 (9.5)	3WNB	7N	5/8X42AB	6' - 6 3/4	31,100	29,100	3,850	169,900
100	SS100D90	10 (6)	13.3 (8)	3WN	7N	5/8X42AB	6' - 6 3/4	33,100	30,900	3,830	180,600
110	SS110D90	10 (6)	13.3 (8)	3WNB	8N	5/8X42AB	8' - 6 3/4	36,000	33,400	5,070	255,500
120	SS120D90	8.3 (5)	11.7 (7)	3WN	8N	5/8X42AB	8' - 6 3/4	38,100	35,400	5,100	270,300
130	SS130D90	8.3 (5)	11.7 (7)	3WNB	9NH	5/8X42AB	10' - 6 3/4	42,900	39,700	6,520	375,800
140	SS140D90	6.7 (4)	10 (6)	3WN	9NH	5/8X42AB	10' - 6 3/4	44,500	41,200	6,540	389,800
150	SS150D90	6.7 (4)	10 (6)	3WNB	10NH	5/8X42AB	12' - 7 1/4	50,900	47,000	8,280	532,100
160	SS160D90	5.8 (3.5)	8.3 (5)	3WN	10NH	3/4X48AB	12' - 7 1/4	52,700	48,700	8,330	550,900
170	SS170D90	5.8 (3.5)	8.3 (5)	3WNB	11N	3/4X48AB	14' - 7 7/8	60,900	56,000	10,570	739,500
180	SS180D90	5 (3)	7.5 (4.5)	3WN	11N	7/8X60AB	14' - 7 7/8	62,900	57,900	10,650	763,700
190	SS190D90	5 (3)	7.5 (4.5)	3WNB	12NH	7/8X60AB	16' - 8 3/8	73,000	66,900	13,060	1,007,000

**General Notes:**

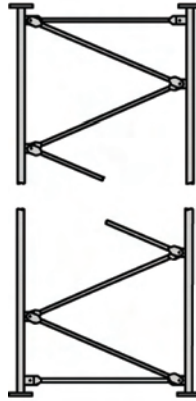
1. Tower designs are in accordance with approved national standard ANSI/EIA-222-F-1996 (no ice).
2. Equivalent flat-plate antenna areas based on EIA RS-222-C, must not exceed the areas shown for flat member antennas.
3. Tower designs assume allowable projected areas are symmetrically placed on the tower.
4. Designs assume one 7/8 line to top and two 7/8 lines to 30 feet below top, one per face.
5. Do not install or dismantle tower within falling distance of electrical and/or telephone lines.
6. Tower erection and dismantling must be done by qualified and experienced personnel.
7. Install warning plate (P/N: ACWS) in a highly visible location.
8. All antenna installations must be grounded in accordance with local and national codes.
9. All towers with 3WN top section are provided with a (P/N: 3TT) tapered top.
10. All towers with 3WNB top section provided with a (P/N: 4TTN) tapered top.



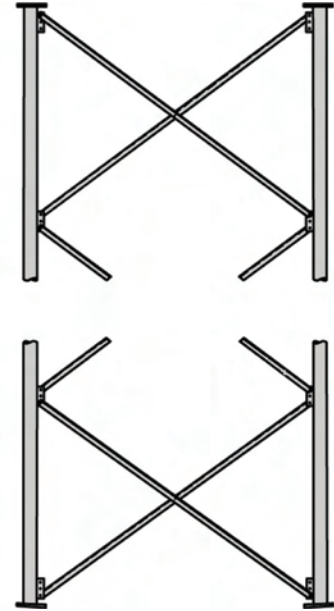
# SELF-SUPPORTING HEAVY DUTY SECTIONS



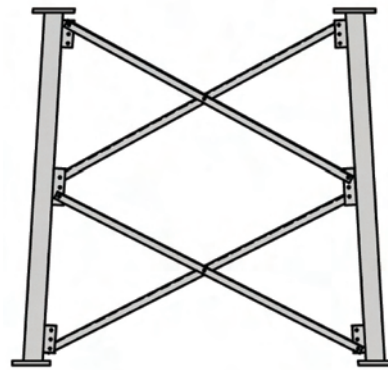
Bracing Detail for Sections 1W - 3WN  
Solid Round Legs & Solid Round Braces



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



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



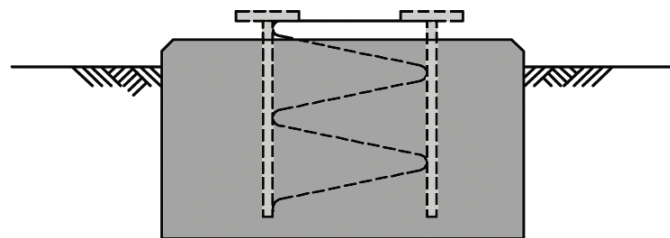
Bracing Detail for Sections 12N & 16N  
Tubular Legs & Angle Braces

## HEAVY DUTY SECTIONS

Section No.	Weights		
	Legs	Braces	Total
1W	-	-	116
2W	-	-	160
3WN	-	-	230
4N	260	175	435
5N	345	195	540
6N	290	190	480
7N	300	245	545
8N	426	274	700
9NH	535	305	840
10NH	545	400	945
11N	570	840	1,410
12NH	905	825	1,730
13NH	1,050	910	1,960
14NH	1,110	1,625	2,735
15NH	1,530	2,000	3,530
16NH	1,530	2,150	3,680

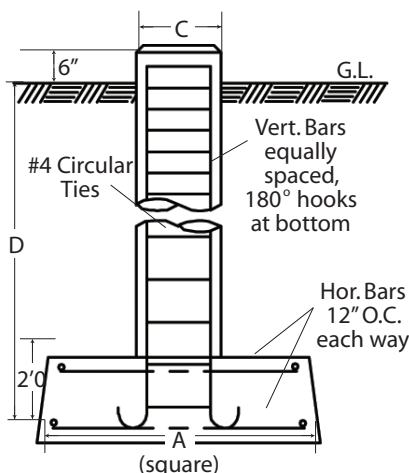
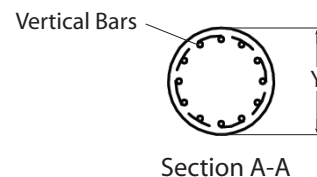
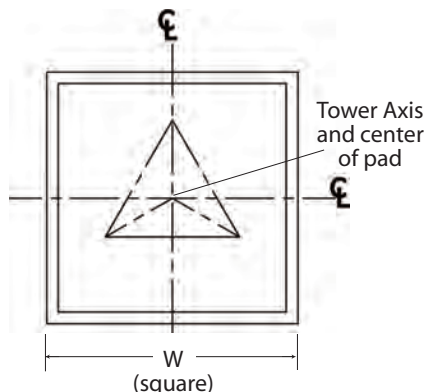
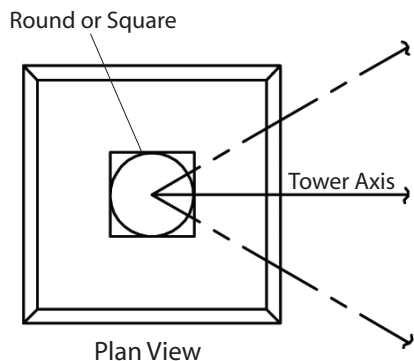
\* All weights are approximate. Total section weight depends on final design.

## TYPICAL SHORT BASE

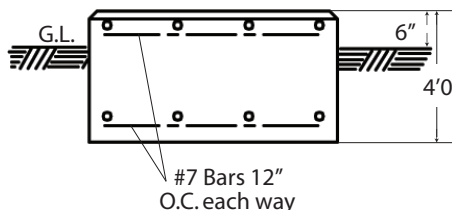


Part No: SB2, SB3, SB4 & SB5

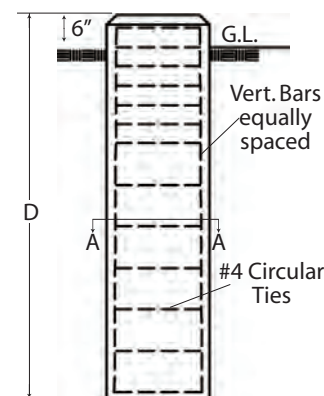
## SELF-SUPPORTING HEAVY DUTY FOUNDATIONS



Pier & Pad Elevation View



Mat Elevation View



Drilled Pier Elevation View

Tower Base Sect. No.	Allow. Leg Load (lbs.)	Allow. Shear (lbs. per leg)	Anchor Bolt Data						Pier & Pad						Mat		Drilled Pier				
			Layout Dimensions			Size 12 Req'd or Short Base	Bolt Circle Dia. (in.)	Proj. (in.)	Dimensions			Vert. Bars	Hor. Bars	Req'd Conc. (cu.yds. 3 fdns)		W	Req'd Conc. (cu.yds.)	D	Y	Vert. Bars	Req'd Conc. (cu.yds.)
			M	N	R				D	A	C			Round	Square						
1W	4,530	-	1'2	1'01/8	0'81/16	-	221/32	-	-	-	-	-	-	-	4'0	24	-	-	-	-	
2W	11,200	-	1'6	1'39/16	0'103/8	SB2	221/32	-	-	-	-	-	-	-	5'6	4.5	-	-	-	-	
3WN	19,600	-	1'10	1'71/16	1'011/16	SB3	31/2	-	-	-	-	-	-	-	6'9	6.8	-	-	-	-	
4N	28,000	-	2'2	1'101/2	1'3	SB4	41/4	-	-	-	-	-	-	-	8'0	9.5	-	-	-	-	
5N	36,000	-	2'6	2'2	1'55/16	SB5	41/4	-	-	-	-	-	-	-	8'9	11.3	-	-	-	-	
6N	33,730	-	4'61/4	3'11	2'715/16	5/8X42	415/16	31/2	-	-	-	-	-	-	10'3	15.6	-	-	-	-	
7N	33,730	4,000	6'63/4	5'83/16	3'91/2	5/8X42	415/16	31/2	8'0	4'6	2'0	(8)#6	#6	6.3	6.9	11'6	19.6	-	-	-	-
8N	52,530	6,000	8'63/4	7'5	4'115/16	5/8X42	415/16	31/2	8'9	5'6	2'0	(8)#7	#6	8.7	9.4	14'3	30.1	18'6	2'6	(10)#6	10.4
9NH	54,000	6,500	10'63/4	9'13/4	6'13/16	5/8X42	415/16	31/2	9'0	5'6	2'0	(8)#7	#6	8.8	9.5	16'0	37.9	19'6	2'6	(10)#6	10.9
10NH	56,000	8,000	12'71/4	10'11	7'35/16	3/4X48	521/32	4	9'0	5'6	2'0	(8)#7	#6	8.8	9.5	18'3	49.3	19'6	2'6	(10)#6	10.9
11N	64,930	10,000	14'77/8	12'815/16	8'59/16	7/8X60	71/16	5	10'0	5'6	2'6	(8)#8	#6	10.8	12.0	-	-	21'9	2'6	(10)#6	12.2
12NH	85,600	10,000	16'83/8	16'25/16	9'711/16	7/8X60	71/16	5	11'0	5'6	2'6	(10)#8	#6	11.3	12.7	-	-	22'9	3'0	(12)#6	18.3
13NH	114,100	12,500	18'83/8	17'1115/16	10'99/16	7/8X60	71/16	5	12'0	6'3	3'0	(12)#8	#6	16.3	18.5	-	-	25'0	3'6	(12)#7	27.3
14NH	114,100	15,000	20'93/8	19'83/4	12'0	1X70	91/2	51/2	12'0	6'3	3'0	(12)#8	#6	16.3	18.5	-	-	25'0	3'6	(12)#7	27.3
15NH	152,000	15,000	22'93/8	22'93/8	13'113/16	1X70	91/2	51/2	13'0	7'3	3'0	(12)#8	#6	19.9	22.4	-	-	30'0	4'0	(12)#8	42.6
16NH	152,000	15,000	24'93/8	21'59/16	14'311/16	1X70	91/2	51/2	13'0	7'3	3'0	(12)#8	#6	19.9	22.4	-	-	30'0	4'0	(12)#8	42.6

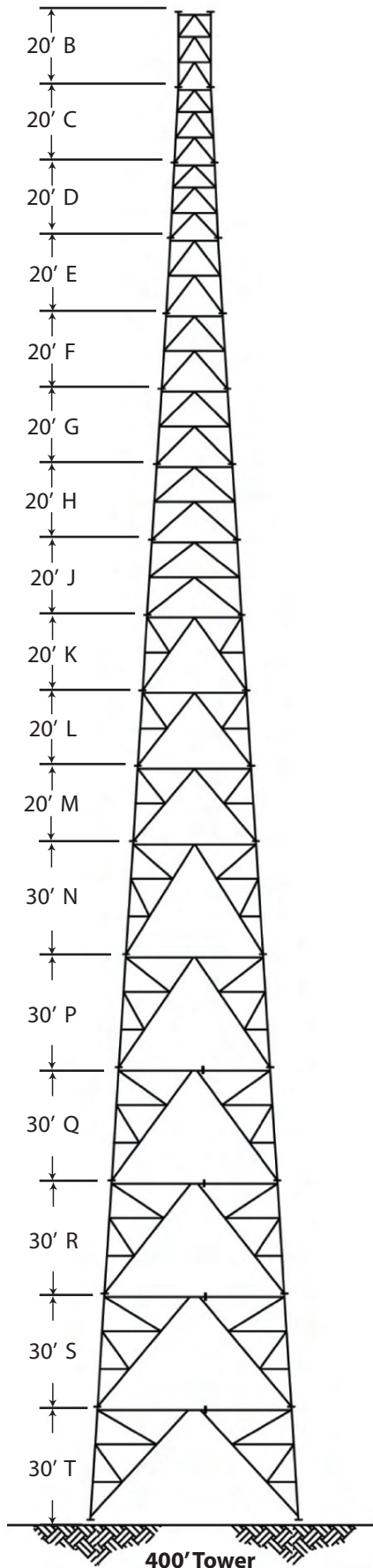


SELF-SUPPORTING

# SSMW

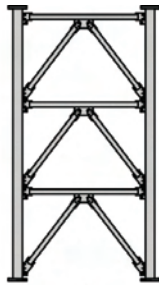
### GENERAL USE

The ROHN SSMW is a unique design using a K-Brace system 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 MW design can be used in conjunction with the SSV tower. All ROHN 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"

# SELF-SUPPORTING SSMW SECTIONS



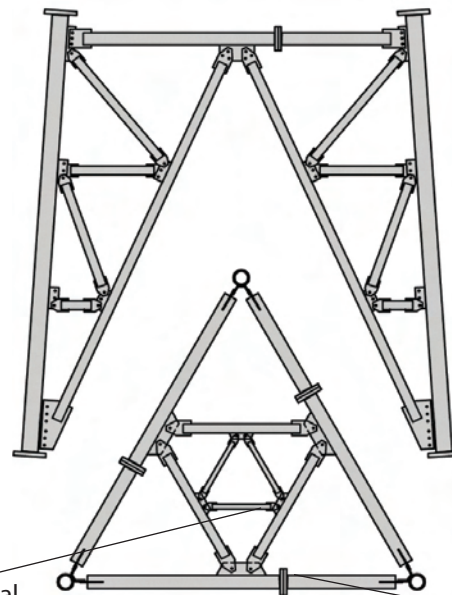
Angle sub-horizontal bracing are used on sections B - J only.

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



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

SSMW SECTIONS  
SSMW tower section weights will vary. Sections are designed for many different sizes of braces and legs.



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

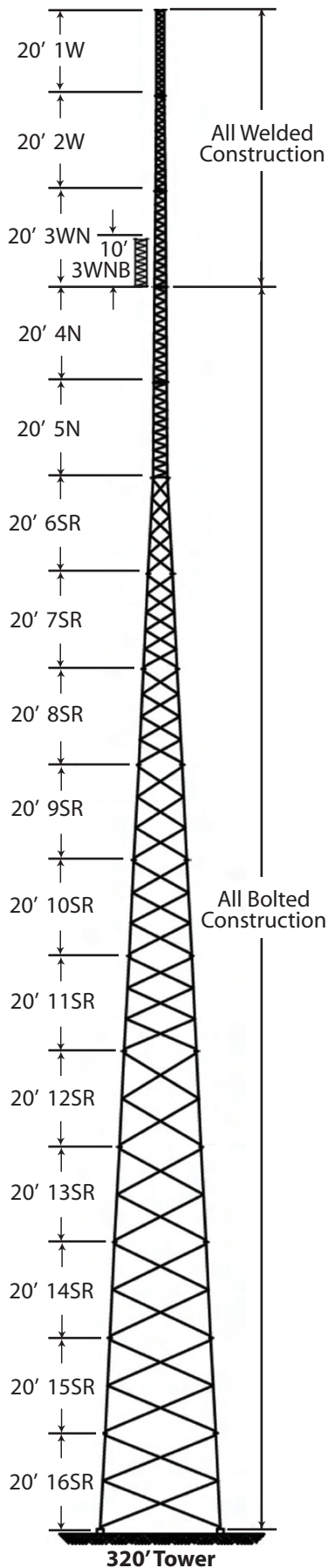
Typical section assembly detail for sections N, P, Q, R, S & T.

Bracing splice connection are used on sections Q - T only.



### SELF-SUPPORTING

# SSVSR

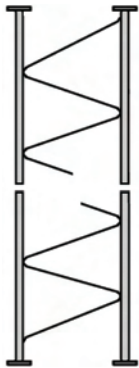


### GENERAL USE

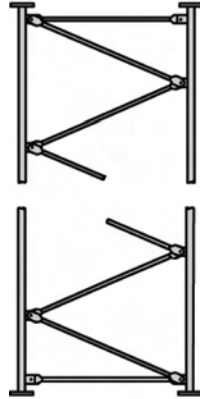
The ROHN SSVSR is similar in design to the ROHN SSV but uses solid round legs instead of tubular legs. The SSVSR gives the versatility to switch to a solid leg if desired. The standard side arms, dish mounts, ladders and waveguide support that are used on the SSV can be used on the SSVSR. All ROHN towers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

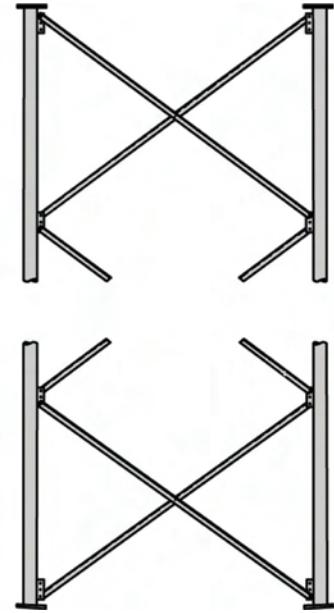
## SELF-SUPPORTING SOLID ROD SECTIONS



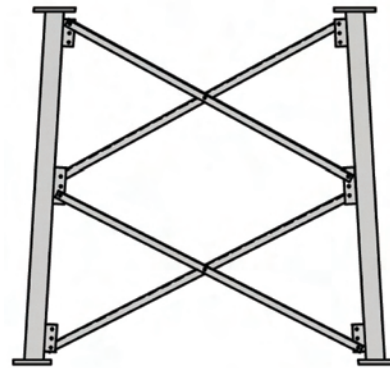
Bracing Detail for Sections 1W - 3WN  
Solid Round Legs & Solid Round Braces



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



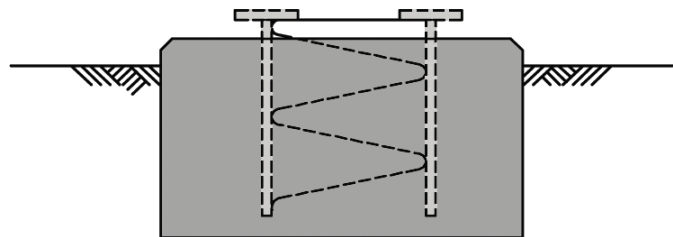
Bracing Detail for Sections 6SR & 11SR  
Solid Legs & Angle Braces



Bracing Detail for Sections 12SR & 16SR  
Solid Legs & Angle Braces

SSVSR SECTIONS  
SSVSR tower section weights will vary.  
Sections are designed for many different  
sizes of braces and legs.

### TYPICAL SHORT BASE

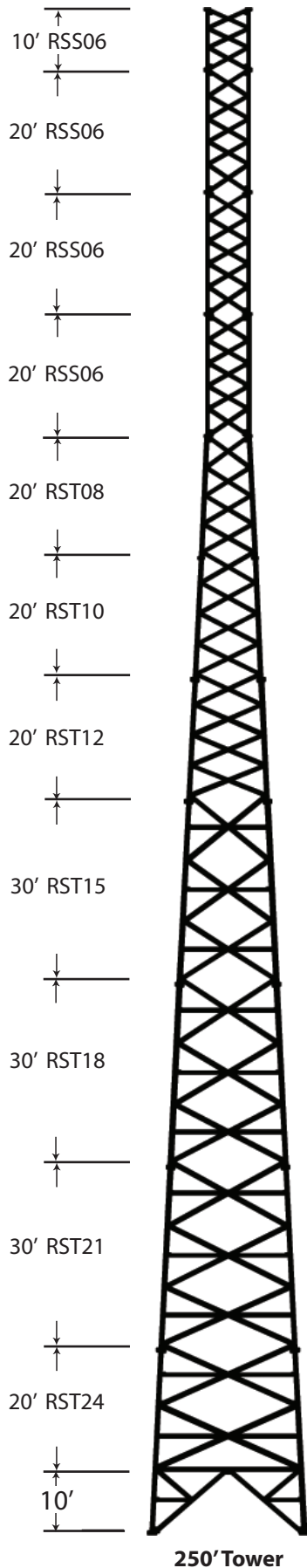


Part No: SB2, SB3, SB4 & SB5



### SELF-SUPPORTING

# RS



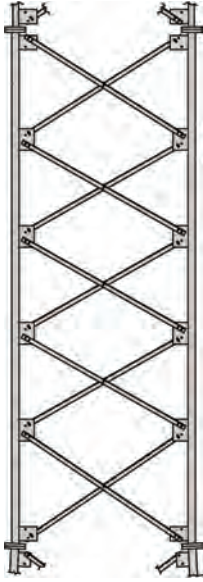
#### GENERAL USE

The ROHN RS is a unique solid leg tower that uses an X-brace pattern angle braces. The RS towers can be strengthened by changing or adding braces to sections. All ROHN towers are hot-dip galvanized for corrosion protection.

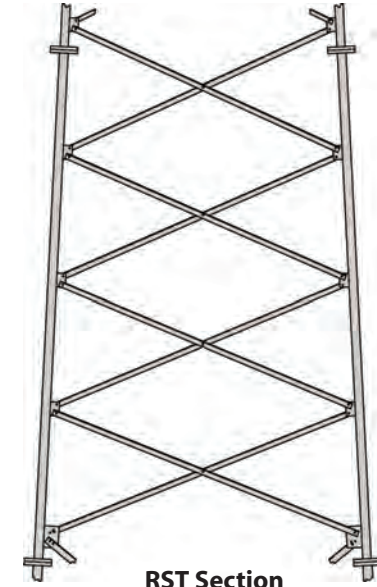
Section Number	Nominal Spread Dimension	
	Upper	Lower
RSS06	6'	6'
RST08	6'	8'
RST10	8'	10'
RST12	10'	12'
RST15	12'	15'
RST18	15'	18'
RST21	18'	21'
RST24	21'	24'



# SELF-SUPPORTING RS SECTIONS

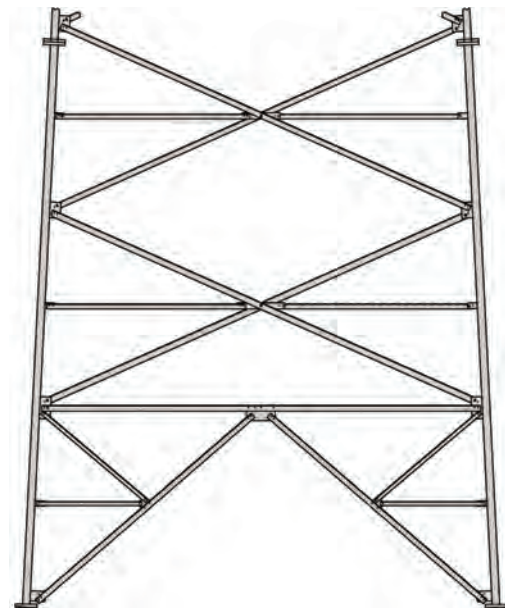


**RSS Section**  
Solid Round Legs & Angle Braces



**RST Section**  
Solid Round Legs & Angle Braces

RS SECTIONS  
RS tower section weights will vary.  
Sections are designed for many different  
sizes of braces and legs.

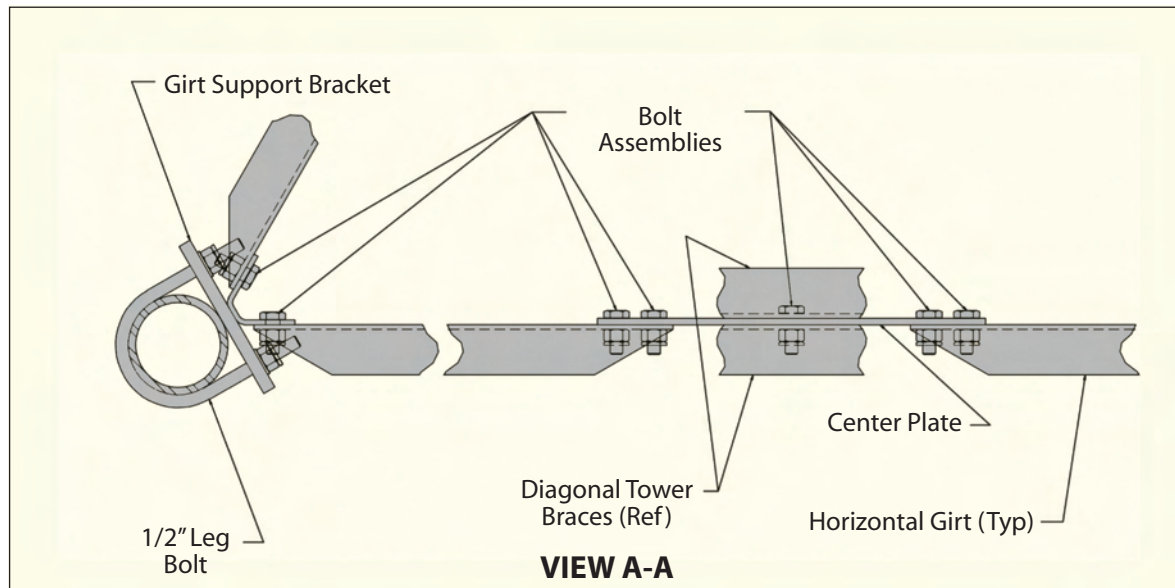
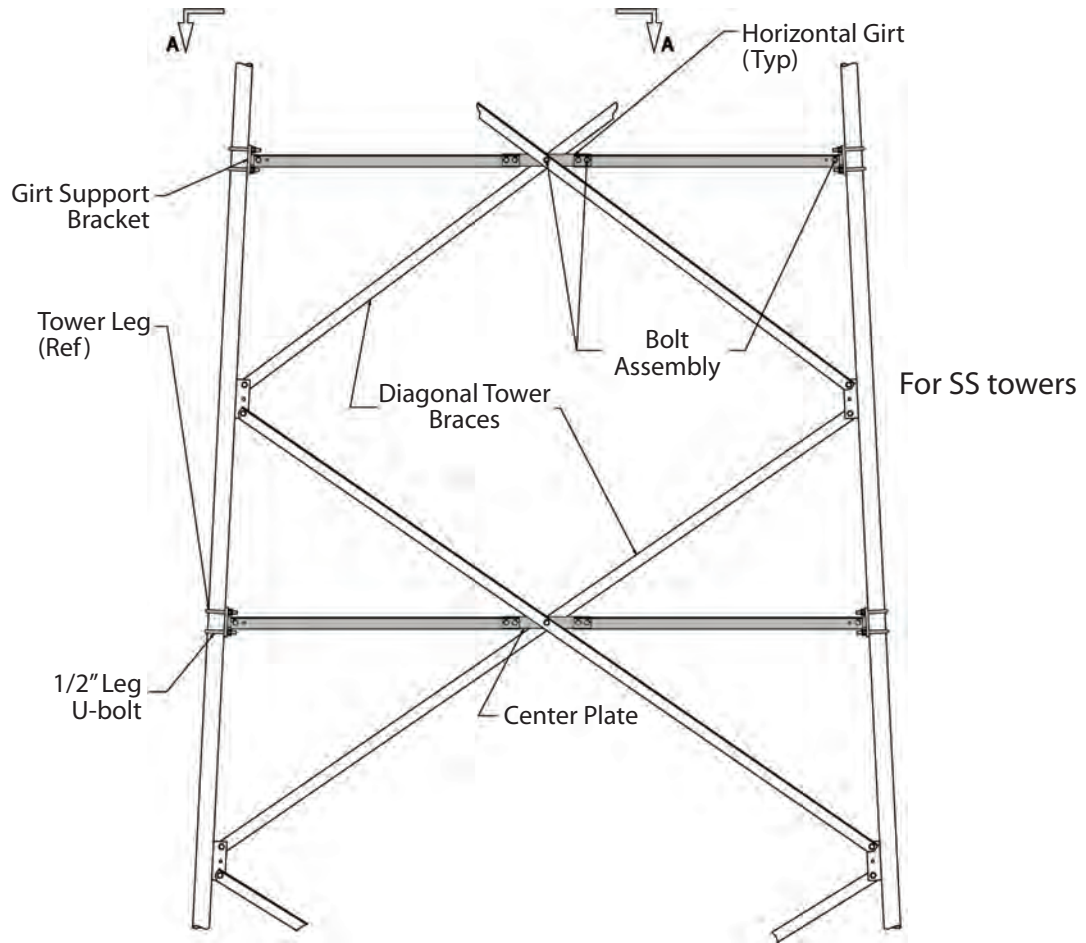


**RST15 and Larger Sections**  
Solid Round Legs & Angle Braces



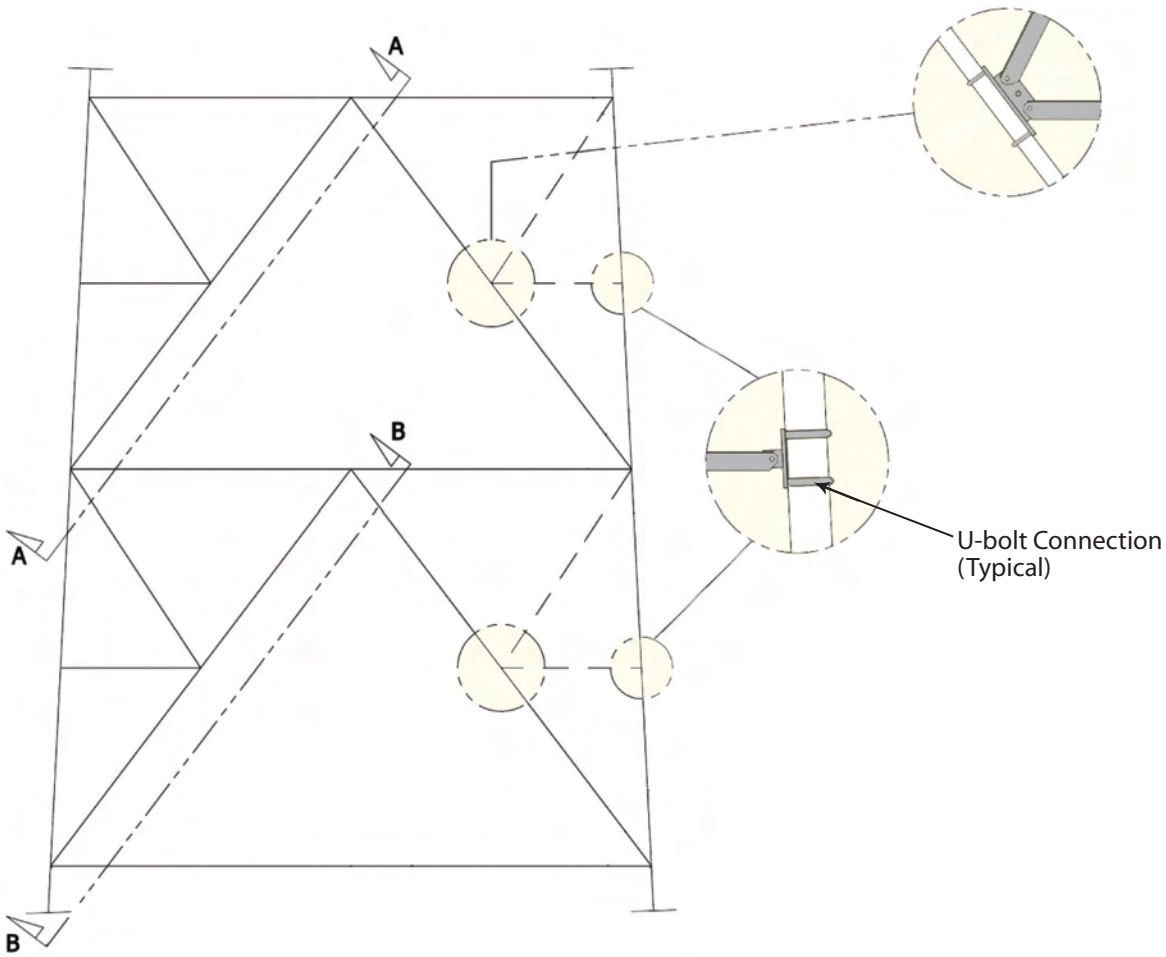
# SELF-SUPPORTING REINFORCEMENTS

STANDARD PARTS AVAILABLE FOR TOWER MODIFICATIONS  
AND FIELD REINFORCEMENT

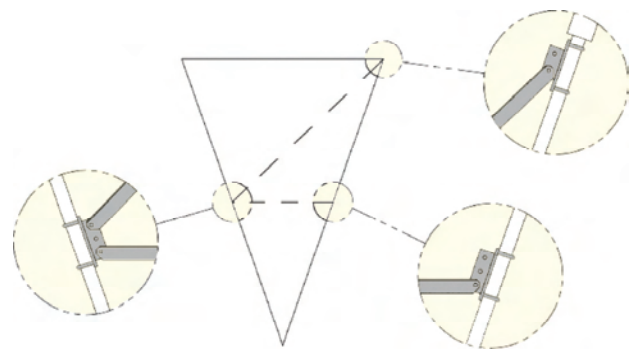


# SSMW SELF-SUPPORTING REINFORCEMENTS

STANDARD PARTS AVAILABLE FOR TOWER MODIFICATIONS  
AND FIELD REINFORCEMENT



Bolt-on lugs are available for all SSMW legs and internal braces.



Added braces are shown as a dashed line.