

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



Products LLC

SSV HEAVY DUTY

GENERAL USE

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

	Section	Nominal Spread Dimension							
	Number	Upper	Lower						
	3WN	1′ - 6″	1′ - 10″						
	3WNB	1′ - 10″	1′ - 10″						
	4N	1′ - 10″	2' - 2″						
gs.	5N	2′ - 2″	2' - 6"						
MIME	6N	2′ - 6″	4' - 6 1/4"						
y dro	7N	4′ - 6 1/4″	6' - 6 3/4"						
nble	8N	6′ - 6 3/4″	8' - 6 3/4"						
wer assei	9NH	8' - 6 3/4"	10' - 6 3/4"						
	10NH	10' - 6 3/4"	12' - 7 1/4"						
ee tc	11N	12' - 7 1/4"	14' - 7 7/8"						
S	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.

Do not use for construction.

SELF-SUPPORTING HEAVY DUTY STANDARD TOWERS

REV G, 90 MPH 3-SEC, 3/4" ICE										
TOWER	TOWER	SECT	IONS	EFFECTIVE PROJECTED AREA (SQ. FT.)						
HEIGHT (FT.)	ASSEMBLY NUMBER	тор	BASE	т	OP	30' BELOW TOP				
	-	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 Catergory 1, 3/4" design ice thickness, seismic coeffilient $S_5 \le 1.0$.
- 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, 60



SELF-SUPPORTING HEAVY DUTY STANDARD TOWERS

REV G, 100 MPH 3-SEC, 3/4" ICE											
TOWER HEIGHT (FT.)	TOWER	SECT	IONS	EFFECTIVE PROJECTED AREA (SQ. FT.)							
	ASSEMBLY	TOD	BASE	т	OP	30' BELOW TOP					
				EXP B	EXP C	EXP B	EXP C				
40	SS040HD100	3WN	4N	32	23	50	38				
50	SS050HD100	3WNB	5N	29	29 21		35				
60	SS060HD100	3WN	5N	28	28 20		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	TOWER	SECTIONS		EFFECTIVE PROJECTED AREA (SQ. FT.)						
HEIGHT (FT.)	ASSEMBLY NUMBER	ТОР	BASE	ТОР		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:

Products LLC

- 1. Standard tower designs are in accordance with approved national standard ANSI/TIA-222-G, Structure Class II, Topographic Catergory 1, 3/4'' design ice thickness, seismic coeffilient S₅ \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.

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



Plan View





Section A-A



Grade 6" 4' Horizontal bars each way, top and bottom



Pier & Pad Elevation View

Mat Elevation View Drilled Pier Elevation View

Towor	Pier & Pad					Mat		Drilled Pier		
Base	Dir	nensio	ons	Req'd Conc.			Roa'd			Poo'd
Sect. No.	DA		с	3 fdns)		W	Conc.	D	Y	Conc
				Round	Square		(cu. yus.)			(cu. yus.)
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.

