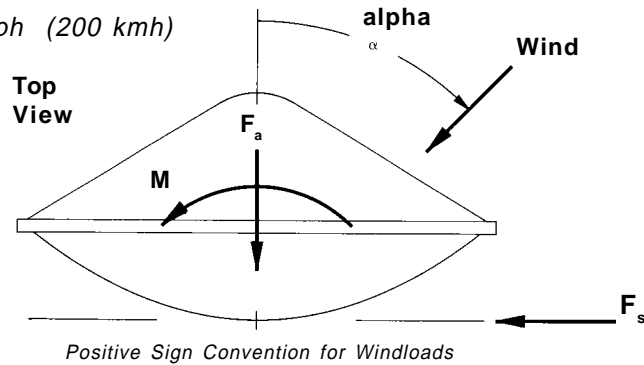


Standard Antennas

Approximate Wind Forces at 125 mph (200 kmh)



Standard Antenna without radome

Standard Antenna with radome

Antenna Diameter ft. (meter)	Wind Angle degree	Axial Force F_a lb (N)		Side Force F_s lb (N)		Twisting Moment M ft-lb (N-m)		Wind Angle degree	Axial Force F_a lb (N)		Side Force F_s lb (N)		Twisting Moment M ft-lb (N-m)	
2-ft. (0.6)	0	290	(1280)	0	(0)	0	(0)	0	163*	(720)*	0	(0)	0	(0)
	60	310*	(1390)*	49	(220)	-39	(-53)	50	102	(460)	100*	(440)*	-18	(-25)
	125	-82	(-360)	87*	(390)*	65*	(89)*	100	9	(38)	75	(330)	76*	(103)*
	180	-193	(-860)	0	(0)	0	(0)	180	-125	(-550)	0	(0)	0	(0)
2.5-ft. (0.8)	0	390	(1750)	0	(0)	0	(0)	0	220*	(990)*	0	(0)	0	(0)
	60	430*	(1910)*	67	(300)	-63	(-86)	50	141	(630)	137*	(610)*	-30	(-40)
	125	-112	(-500)	119*	(530)*	106*	(143)*	100	12	(53)	102	(460)	122*	(166)*
	180	-270	(-1180)	0	(0)	0	(0)	180	-171	(-760)	0	(0)	0	(0)
4-ft. (1.2)	0	960	(4300)	0	(0)	0	(0)	0	540*	(2400)*	0	(0)	0	(0)
	60	1050*	(4700)*	163	(720)	-240	(-320)	50	340	(1520)	330*	(1480)*	-112	(-152)
	125	-270	(-1210)	290*	(1290)*	400*	(540)*	100	29	(128)	250	(1110)	460*	(630)*
	180	-640	(-2900)	0	(0)	0	(0)	180	-420	(-1850)	0	(0)	0	(0)
6-ft. (1.8)	0	2000	(9100)	0	(0)	0	(0)	0	1160*	(5200)*	0	(0)	0	(0)
	60	2200*	(9900)*	350	(1550)	-750	(-1010)	50	730	(3300)	710*	(3200)*	-350	(-480)
	125	-580	(-2600)	620*	(2800)*	1250*	(1690)*	100	61	(270)	530	(2400)	1450*	(1960)*
	180	-1380	(-6100)	0	(0)	0	(0)	180	-890	(-4000)	0	(0)	0	(0)
6-ft. ⁽²⁾ (1.8)	0	2240	(9970)	0	(0)	0	(0)	0	1270*	(5200)*	0	(0)	0	(0)
	60	2440*	(10860)*	380	(1690)	-850	(-1150)	50	800	(3300)	780*	(3470)*	-400	(-540)
	125	-630	(-2800)	680*	(3030)*	1430*	(1940)*	100	70	(270)	580	(2580)	1650*	(2240)*
	180	-1510	(-6720)	0	(0)	0	(0)	180	-970	(-4000)	0	(0)	0	(0)
Deep Dish Category "A"	0	3400	(15200)	0	(0)	0	(0)	0	1930*	(8600)*	0	(0)	0	(0)
	60	3700*	(16600)*	580	(2600)	-1600	(-2200)	50	1220	(5400)	1180*	(5300)*	-750	(-1020)
	125	-970	(-4300)	1030*	(4600)*	2700*	(3600)*	100	102	(450)	890	(3900)	3100*	(4200)*
	180	-2300	(-10200)	0	(0)	0	(0)	180	-1480	(-6600)	0	(0)	0	(0)
10-ft. (3.0)	0	5500	(24000)	0	(0)	0	(0)	0	3100*(13800)*	0	(0)	0	(0)	
	60	6000*	(27000)*	930	(4100)	-3200	(-4400)	50	1950	(8700)	1900*	(8400)*	-1520	(-2100)
	125	-1550	(-6900)	1650*	(7300)*	5400*	(7400)*	100	164	(730)	1420	(6300)	6300*	(8500)*
	180	-3700	(-16300)	0	(0)	0	(0)	180	-2400(-10600)	0	(0)	0	(0)	
12-ft. (3.7)	0	7600	(34000)	0	(0)	0	(0)	0	4300*(19300)*	0	(0)	0	(0)	
	60	8400*	(37000)*	1300	(5800)	-5400	(-7300)	50	2700	(12200)	2700*	(11800)*	-2500	(-3400)
	125	-2200	(-9700)	2300*	(10300)*	9000*	(12200)*	100	230	(1020)	1990	(8800)	10400*(14200)*	
	180	-5100	(23000)	0	(0)	0	(0)	180	-3300(-14800)	0	(0)	0	(0)	
15-ft. (4.6)	0	12500	(56000)	0	(0)	0	(0)							
	60	13700*	(61000)*	2100	(9500)	-11300	(-15300)							
	125	-3600	(-15800)	3800*	(16800)*	18900*	(26000)*							
	180	-8400	(37000)	0	(0)	0	(0)							
"A" Frame Series Only														

* Indicates maximum value.
 Notes 1 The above windloads are typical for most applications. For some models, the windloads may vary from this table.
 Notes 2 Some 6 ft. (1.8) diameter antenna models meeting Category "A" criteria, utilize oversized reflectors. Contact your Gabriel Sales Engineer for these values.