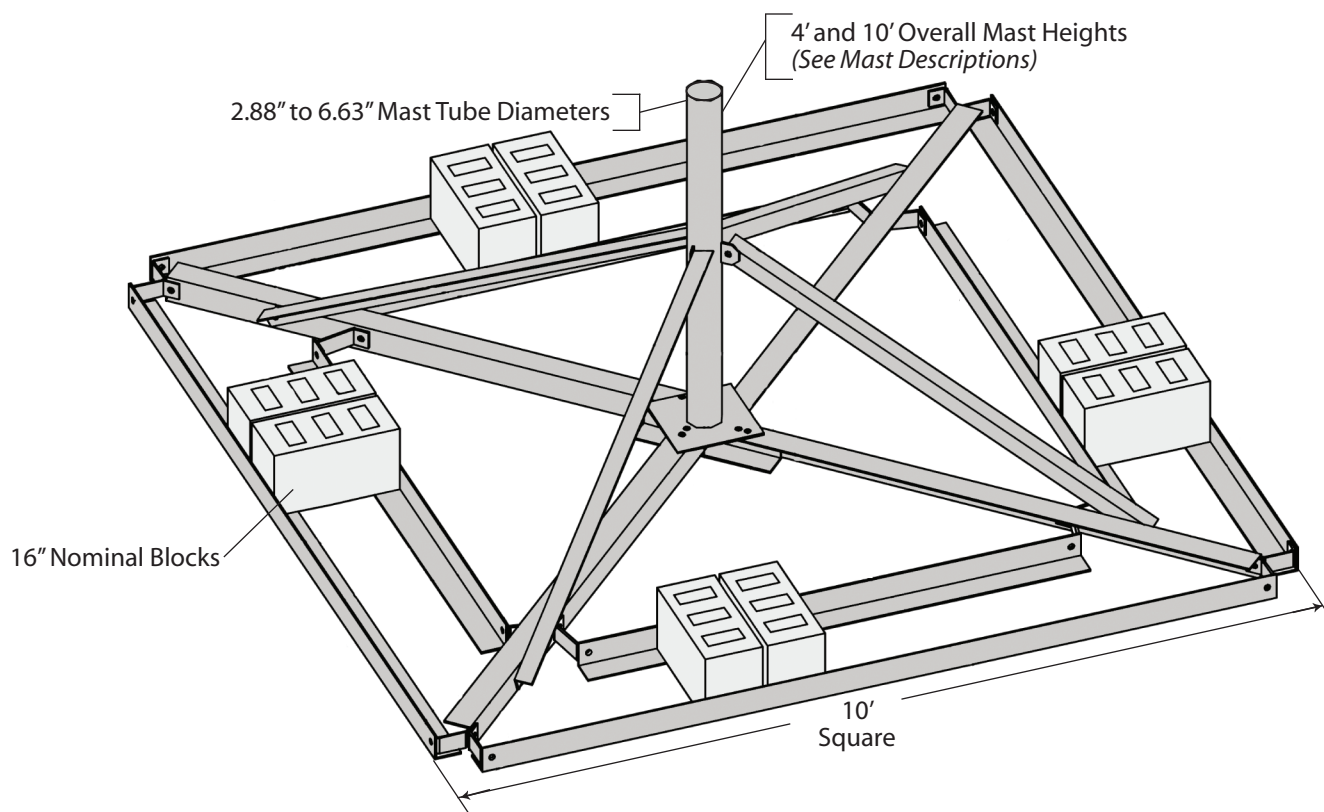


BRM6 NON-PENETRATING

The BRM6 mount is hot-dip galvanized after fabrication for corrosion protection.

Order (1) optional BRM6MAT (1/8" thick) or (1) optional BRM6PAD (3/8" thick) for a protective barrier between the mount and the roof. Order (1) optional SCK150 safety cable kit (3/8" x 150').

Refer to pages 261-263 for ballast requirements.



MAST SPECIFICATIONS

Mount Part No.	Mast Part No.	Mast Description & Height
BRM630M	KY2110	2.88" O.D. x 0.203" wall x 4.0'
BRM635M	KY1570	3.50" O.D. x 0.216" wall x 4.0'
BRM640M	KY1578	4.00" O.D. x 0.226" wall x 4.0'
BRM645M	KY1579	4.50" O.D. x 0.237" wall x 4.0'
BRM655M	KY1580	5.56" O.D. x 0.258" wall x 4.0'
BRM665M	KY1581	6.63" O.D. x 0.280" wall x 4.0'
BRM64510M	KY2043	4.50" O.D. x 0.237" wall x 10.0'

BRM6

4 FT. DISH ELEVATION BALLAST REQUIREMENTS

Dish Diameter	Ballast (LBS)	Zero Velocity Load (PSF)	Design Wind Velocities (MPH)					
			EL=0°		EL=20°		EL=40°	
			Vmax	Vs	Vmax	Vs	Vmax	Vs
4' (1.2 m)	500	5.0	87	67	103	75	112	92
	750	7.5	107	82	131	92	142	113
	1000	10.0	125	95	154	107	167	131
	1250	12.5	139	106	169	119	189	146
	1500	15.0	148	117	180	131	203	160
	1750	17.5	157	126	190	141	211	173
	2000	20.0	165	135	196	151	211	185
6' (1.8 m)	500	5.0	58	45	65	50	69	61
	750	7.5	71	55	83	61	89	75
	1000	10.0	83	63	99	71	106	87
	1250	12.5	93	71	112	79	120	97
	1500	15.0	99	78	120	87	129	107
	1750	17.5	105	84	127	94	137	115
	2000	20.0	110	90	130	101	141	123
	2250	22.5	115	95	130	107	141	131
	2500	25.0	120	100	130	113	141	138
	2750	27.5	125	105	130	118	141	141
	3000	30.0	127	110	130	123	141	141
8' (2.4 m)	750	7.5	53	41	57	46	60	56
	1000	10.0	62	47	69	53	73	65
	1250	12.5	69	53	79	59	84	73
	1500	15.0	74	58	85	65	90	80
	1750	17.5	78	63	91	70	96	86
	2000	20.0	82	67	97	75	102	92
	2250	22.5	86	71	98	80	103	98
	2500	25.0	90	75	98	84	103	103
	2750	27.5	94	79	98	88	103	103
	3000	30.0	95	82	98	92	103	103

EL = Dish antenna azimuth angle with horizontal.

Vmax = Effective wind velocity based on strength or overturning.

Vs = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

NOTE: Mast strength may govern antenna capacity.



BRM6 BALLAST REQUIREMENTS

Effective Projected Area (EPA) (FT ²)	Ballast (LBS)	Zero Velocity Load (PSF)	Vs (MPH)	Vmax at centroid of projected area, (MPH)						
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
10	500	5.0	99	128	114	104	96	90	85	81
	750	7.5	121	156	140	128	118	110	104	99
	1000	10.0	140	180	161	147	136	128	120	114
	1250	12.5	156	202	180	165	152	143	134	128
	1500	15.0	171	218	195	178	165	154	145	138
	1750	17.5	185	230	206	188	174	163	154	146
	2000	20.0	198	242	217	198	183	171	162	153
	2250	22.5	210	254	227	207	192	179	169	160
	2500	25.0	221	265	237	216	200	187	176	167
	2750	27.5	232	275	246	225	208	195	183	174
	3000	30.0	242	280	250	228	211	198	186	177
15	500	5.0	81	104	93	85	79	74	69	66
	750	7.5	99	128	114	104	96	90	85	81
	1000	10.0	114	147	132	120	111	104	98	93
	1250	12.5	128	165	147	134	125	116	110	104
	1500	15.0	140	178	159	145	134	126	119	113
	1750	17.5	151	188	168	154	142	133	125	119
	2000	20.0	161	198	177	162	150	140	132	125
	2250	22.5	171	207	185	169	157	147	138	131
	2500	25.0	180	216	193	176	163	153	144	137
	2750	27.5	189	225	201	183	170	159	150	142
	3000	30.0	198	228	204	186	173	161	152	144
20	500	5.0	70	90	81	74	68	64	60	57
	750	7.5	86	110	99	90	84	78	74	70
	1000	10.0	99	128	114	104	96	90	85	81
	1250	12.5	110	143	128	116	108	101	95	90
	1500	15.0	121	154	138	126	116	109	103	97
	1750	17.5	131	163	146	133	123	115	109	103
	2000	20.0	140	171	153	140	130	121	114	108
	2250	22.5	148	179	160	147	136	127	120	113
	2500	25.0	156	187	167	153	141	132	125	118
	2750	27.5	164	195	174	159	147	138	130	123
	3000	30.0	171	198	177	161	149	140	132	125
25	500	5.0	63	81	72	66	61	57	54	51
	750	7.5	77	99	88	81	75	70	66	63
	1000	10.0	88	114	102	93	86	81	76	72
	1250	12.5	99	128	114	104	96	90	85	81
	1500	15.0	108	138	123	113	104	97	92	87
	1750	17.5	117	146	130	119	110	103	97	92
	2000	20.0	125	153	137	125	116	108	102	97
	2250	22.5	133	160	144	131	121	113	107	101
	2500	25.0	140	167	150	137	127	118	112	106
	2750	27.5	147	174	156	142	132	123	116	110
	3000	30.0	153	177	158	144	134	125	118	112
30	500	5.0	57	74	66	60	56	52	49	47
	750	7.5	70	90	81	74	68	64	60	57
	1000	10.0	81	104	93	85	79	74	69	66
	1250	12.5	90	116	104	95	88	82	78	74
	1500	15.0	99	126	113	103	95	89	84	80
	1750	17.5	107	133	119	109	101	94	89	84
	2000	20.0	114	140	125	114	106	99	93	89
	2250	22.5	121	147	131	120	111	104	98	93
	2500	25.0	128	153	137	125	115	108	102	97
	2750	27.5	134	159	142	130	120	112	106	100
	3000	30.0	140	161	144	132	122	114	108	102
35	500	5.0	53	68	61	56	52	48	45	43
	750	7.5	65	84	75	68	63	59	56	53
	1000	10.0	75	96	86	79	73	68	64	61
	1250	12.5	84	108	96	88	82	76	72	68
	1500	15.0	91	116	104	95	88	82	78	74
	1750	17.5	99	123	110	101	93	87	82	78
	2000	20.0	106	130	116	106	98	92	86	82
	2250	22.5	112	136	121	111	103	96	90	86
	2500	25.0	118	141	127	115	107	100	94	89
	2750	27.5	124	147	132	120	111	104	98	93
	3000	30.0	129	149	134	122	113	106	100	94

EL = Dish antenna angle with horizontal.

Vmax = Effective wind velocity based on strength or overturning.

Vs = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

NOTE: Mast strength may govern antenna capacity.

BRM6 BALLAST REQUIREMENTS

Effective Projected Area (EPA) (FT ²)	Ballast (LBS)	Zero Velocity Load (PSF)	Vs (MPH)	Vmax at centroid of projected area, (MPH)						
				h=4 FT	h=5 FT	h=6 FT	h=7 FT	h=8 FT	h=9 FT	h=10 FT
40	500	5.0	49	64	57	52	48	45	43	40
	750	7.5	61	78	70	64	59	55	52	49
	1000	10.0	70	90	81	74	68	64	60	57
	1250	12.5	78	101	90	82	76	71	67	64
	1500	15.0	86	109	97	89	82	77	73	69
	1750	17.5	92	115	103	94	87	81	77	73
	2000	20.0	99	121	108	99	92	86	81	77
	2250	22.5	105	127	113	104	96	90	85	80
	2500	25.0	110	132	118	108	100	94	88	84
	2750	27.5	116	138	123	112	104	97	92	87
	3000	30.0	121	140	125	114	106	99	93	88
45	500	5.0	47	60	54	49	45	43	40	38
	750	7.5	57	74	66	60	56	52	49	47
	1000	10.0	66	85	76	69	64	60	57	54
	1250	12.5	74	95	85	78	72	67	63	60
	1500	15.0	81	103	92	84	78	73	68	65
	1750	17.5	87	109	97	89	82	77	72	69
	2000	20.0	93	114	102	93	86	81	76	72
	2250	22.5	99	120	107	98	90	85	80	76
	2500	25.0	104	125	112	102	94	88	83	79
	2750	27.5	109	130	116	106	98	92	86	82
	3000	30.0	114	132	118	108	100	93	88	83
50	500	5.0	44	57	51	47	43	40	38	36
	750	7.5	54	70	63	57	53	49	47	44
	1000	10.0	63	81	72	66	61	57	54	51
	1250	12.5	70	90	81	74	68	64	60	57
	1500	15.0	77	97	87	80	74	69	65	62
	1750	17.5	83	103	92	84	78	73	69	65
	2000	20.0	88	108	97	89	82	77	72	69
	2250	22.5	94	113	101	93	86	80	76	72
	2500	25.0	99	118	106	97	89	84	79	75
	2750	27.5	104	123	110	100	93	87	82	78
	3000	30.0	108	125	112	102	94	88	83	79

EL = Dish antenna angle with horizontal.

Vmax = Effective wind velocity based on strength or overturning.

Vs = Effective wind velocity resulting in sliding on a flat surface with a .50 coefficient of friction.

NOTE: Mast strength may govern antenna capacity.