



## Aerial Masts and Towers

THE COMPANY has built up a range of standard designs of aerial system components and is prepared to quote for complete systems incorporating these components. Alternatively the components themselves, masts, aerals and aerial fittings, can be supplied for incorporation in customers' own designs.

### STAYED MASTS

These masts are all similarly constructed and are made in varying heights and have these features:

1. Constructed as fabricated lattice steel columns.
2. Stayed at suitable intervals with galvanised steel wire-rope stays.
3. Each stay is fitted with fine and coarse adjustment device.
4. Stay anchorage steelwork and provision for halyard sheave block included.
5. Provision is made for fixing obstruction lights.
6. Suitable erection gear available.

TABLE OF MASTS

TYPE	HEIGHT AVAILABLE (Feet)	DIMENSIONS	STRENGTH		FINISH
			Wind Velocity	Horizontal Head Pull	
Light support 3 stays in plan	50, 60, 70, 80, 90, 100	9 in. square	80 mph	800 lb	Hot dipped galvanised
Light support 4 stays in plan	50, 60, 70, 80, 90, 100, 120	12 in. square	100 mph	2000 lb	Hot dipped galvanised
Medium support 4 stays in plan	100, 125, 133	18 in. square	100 mph	2500-3500 lb*	Hot dipped galvanised
Medium support 4 stays in plan	150	18 in. square	100 mph	2200 lb	Hot dipped galvanised
Heavy support 3 stays in plan	150, 250	5 ft sides triangular	95 mph	5 tons	Hot dipped galvanised
Heavy support 3 stays in plan	300, 325	6 ft sides triangular	120 mph	5 tons	Hot dipped galvanised
Heavy support 4 stays in plan	150, 260, 300, 325	6 ft square	95-120 mph	5 tons	Hot dipped galvanised

\*According to height.

**TOWERS.** Of fabricated lattice steel construction, these towers have a hot-dipped galvanised finish. They are completely self supporting.

TYPE	HEIGHT (Feet)	DIMENSIONS		WIND VELOCITY	REMARKS
		Base	Top		
Light roof tower	30	5 ft square	6 in. square	80 mph	Suitable for light head pull on simple VHF aerals
Light roof tower	50	10 ft square	2 ft square	80 mph	Suitable for light head pull on simple VHF aerals
Light support tower	70	8 ft square	1 ft square	80 mph	Suitable for maximum horizontal head pull of 1000 lb
Light support tower	110	12 ft square	1 ft square	80 mph	Suitable for maximum horizontal head pull of 1000 lb
VHF aerial support	50	5 ft square	2ft6in. square	90 mph	Suitable for supporting Yagi and High Gain VHF aerial arrays
VHF aerial support tower	100	11 ft square	2ft6in. square	90 mph	Suitable for supporting Yagi and High Gain VHF aerial arrays
VHF aerial support tower	150	18 ft square	2ft6in. square	90 mph	Suitable for supporting Yagi and High Gain VHF aerial arrays
VHF aerial support tower	200	28 ft square	2ft6in. square	90 mph	Suitable for supporting Yagi and High Gain VHF aerial arrays

### MAST RADIATORS

These radiators are of fabricated lattice steel construction, triangular in section and have a hot-dipped galvanised finish. They are supported with the aid of three stays in plan and have an insulated base.

HEIGHT (Feet)	HEIGHT (Metres)	SIDE WIDTH	WIND VELOCITY
820	250	8 ft	100 mph
740	225	8 ft	100 mph
675	206	8 ft	100 mph
328	100	6 ft	120 mph
250	76	5 ft	120 mph
328	100	3 ft 6 in.	100 mph
294	90	3 ft 6 in.	100 mph

### TOWER RADIATORS

These are of lattice steel construction, with a hot-dipped galvanised finish, standing on four insulators. Being completely self supporting, they take up less ground space than a guyed mast radiator. Towers are specially designed for par-

ticular installations to suit individual requirements, the height depending on the radiated frequency and on whether the radiator is a half or a quarter wavelength. Where the height would warrant fitting, an obstruction light can be supplied.

### INSULATORS

The following is a selection of insulators:

*Support Insulators* for aerals and transmission lines. The series includes rods from 10 to 90 cm (4 to 36 in.) long in a variety of diameters.

Appropriate metal fittings can be provided for the duty required and the series includes insulators with breaking loads up to 12,200 kg (12 tons).

*Lead-in Insulators* cover deep and shallow pot type insulators which include 30 cm (12 in.) transmission line lead-in and 50 cm (20 in.) aerial lead-in insulators. Suitable insulators can also be offered for the support of multiwire transmission lines.

*Stay Insulators.* Housing-type stay insulators include insulators with a breaking load of up to 76,200 kg (75 tons) which are normally used with a maximum working load of 25,400 kg (25 tons)

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