

# ProMAST™ 60

## 60-METER MET MAST

Second Wind's ProMast 60 60-meter mast is manufactured to withstand the harshest of conditions. The mast is easy to erect and dismantle, and comes in 2.2m lengths, allowing for easy transportation.

### Technical Specifications

#### Mast:

Mast Height:	60m nominal +0.1/-0.2m
Guy Wire:	7 guy sets, each with 4 guys 6/19 (12/6/1), 6.35mm RHOL galvanized wire, to IS 3459
Tubing standards:	165mm to IS 1161 and IS 10748, and 219mm tubing to IS 33589 and IS 10748
Galvanizing:	Hot-dip
Tube lengths:	2200mm
Tube OD:	165mm and 219mm

#### Ginpole:

The mast is erected using a pivoting ginpole, which itself is erected by a fixed mini-ginpole. The main ginpole is fitted with restraining ropes which enable the winching point to be sited at a convenient location.

Ginpole length:	14m +0/-0.1m
Mini-ginpole:	3m
Tube lengths:	3000mm

### Wind Loading Capabilities

Designed to meet the requirements of standard ANSI/EIA-222F (1996) for the following conditions:

Mast Base (10m):	49.6 m/sec (110.8 mph, no ice)
Mast Top (60m):	64.1 m/sec (143.5 mph, no ice)

### Icing Conditions

For 6.35mm ice cover evenly over the mast and guys:

Mast Base (10m):	37.1 m/sec (82.9 mph)
Mast Top (60m):	48 m/sec (107 mph)

For 25mm ice cover evenly over the mast and guys:

Mast Base (10m):	14.8 m/sec (33 mph)
Mast Top (60m):	19.1 m/sec (42 mph)



### Anchor Loads and Positioning

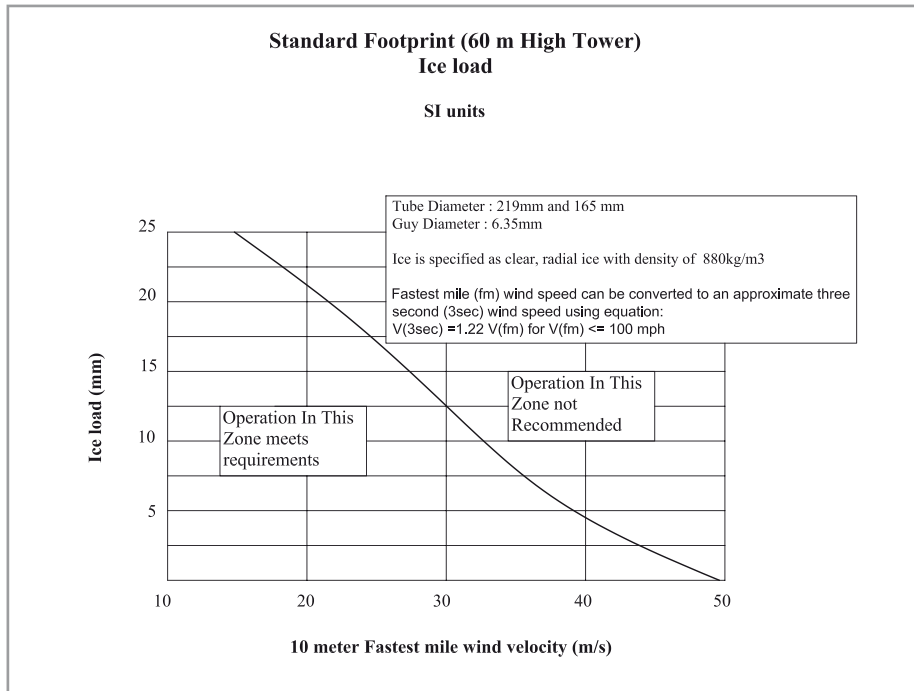
It is advisable to visit the site prior to installation. A reasonably level site is assumed when determining guy wire length. We supply sufficient guy wire to enable the lower guy sets to be anchored at the specified radius or any intermediate to 45m if site conditions require it.

Inner Anchor load:	Sets 1&2: 2325 lbs at 24°
Inner Anchor radius:	35m
Middle Anchor load:	3, 4: 3197 lbs at 38°
Middle Anchor radius:	40m
Outer Anchor load:	5, 6, 7: 7351 lbs at 47°
Outer Anchor radius:	45m
Baseplate load:	27,700 lbs vertical load
Lifting Anchor load:	4968 lbs at 43° (bare mast)

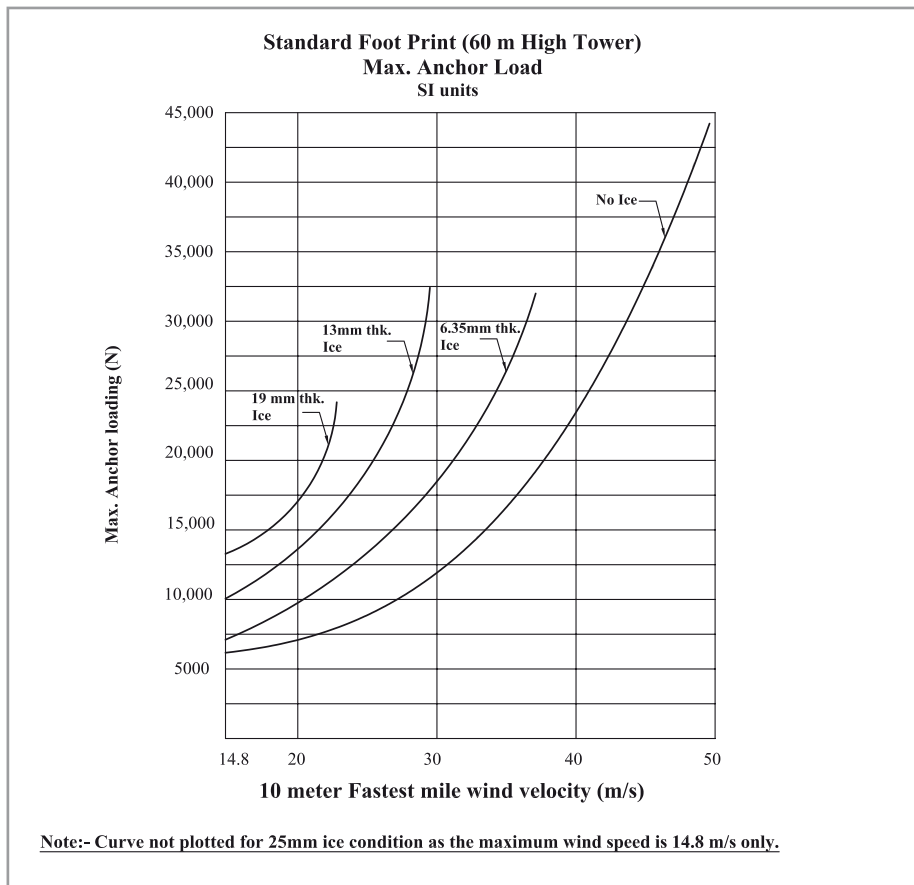
### Crate Dimensions and Weights

Mast Crate:	228cm x 106cm x 114cm
Erection Kit Crate:	304cm x 114cm x 76cm, 454Kg

## Ice Load Specifications



**Predicted ice load performance.**  
Wind forces and allowable member loads are calculated using ANSI TIA/EIA-222-F, (1996).



**Predicted maximum anchor loads for different icing conditions.**  
Wind forces and allowable member loads are calculated using ANSI TIA/EIA-222-F, (1996).