

Telco Tripods & Masts Selection Matrix – Rev B

- Design working life is considered to be less than 6 months in each site / application.
- Importance level: 1
- Design wind speed is 28m/s (100km/h)
- Each tripod foot is to have a hold down and sliding anchor – refer tables for minimum weight.
- Any platform on which tripod is placed must be adequate to support a minimum 150kg over 200mm²
- Guy wires required at telescopic mast join only, to be installed at 60 degrees from horizontal.

The tables provide tripod selection and anchor requirements based on the antenna dish diameter and mast height.

Type 'L' Steel Tripod

Table L1: Tripod Mast – Unbraced

Tripod Height (m)	Tripod Foot Anchor – Minimum Hold Down Weight (kg)			
	Omni or Yagi	Ø300 Dish	Ø600 Dish	Ø900 Dish
2.0	4.0	4.0	12.0	25.0
5.0	11.0	Not Suitable	Not Suitable	Not Suitable
8.0	29.0	Not Suitable	Not Suitable	Not Suitable
10.0	30.0	Not Suitable	Not Suitable	Not Suitable
Minimum Sliding Anchor Resistance (kg)	22.5	22.5	65.0	113.0

Table L2: Tripod Mast – Braced With Guy Wire

Tripod Height (m)	Tripod Foot Anchor Minimum Hold Down Weight (kg)	Guy Wire Anchor – Minimum Hold Down Weight (kg)		
		Ø300 Dish	Ø600 Dish	Ø900 Dish
2.0	Not Applicable	Not Applicable	Not Applicable	Not Applicable
5.0	11.0	20.0	50.0	90.0
8.0	20.0	36.0	58.0	113.0
10.0	20.0	41.0	69.0	120.0
Minimum Sliding Anchor Resistance On Guy Wire Anchor (kg)		35.0	52.0	80.0

Type 'M' Aluminium Tripod

Table M1: Tripod Mast – Unbraced

Tripod Height (m)	Tripod Foot Anchor – Minimum Hold Down Weight (kg)			
	Omni or Yagi	Ø300 Dish	Ø600 Dish	Ø900 Dish
1.5	3.0	8.0	16.0	38.0
3.5	8.0	16.0	Not Suitable	Not Suitable
5.5	16.0	Not Suitable	Not Suitable	Not Suitable
7.5	21.0	Not Suitable	Not Suitable	Not Suitable
Minimum Sliding Anchor Resistance (kg)	7.5	25.0	30.0	53.0

Table M2: Tripod Mast – Braced With Guy Wire

Tripod Height (m)	Tripod Foot Anchor Minimum Hold Down Weight (kg)	Guy Wire Anchor – Minimum Hold Down Weight (kg)		
		Ø300 Dish	Ø600 Dish	Ø900 Dish
1.5	Not Applicable	Not Applicable	Not Applicable	Not Applicable
3.5	8.0	Not Applicable	41.0	76.0
5.5	10.0	18.0	43.0	88.0
7.5	10.0	36.0	53.0	108.0
Minimum Sliding Anchor Resistance On Guy Wire Anchor (kg)		30.0	50.0	71.0

Type 'S' Aluminium Tripod

Table S1: Tripod Mast – Unbraced

Tripod Height (m)	Tripod Foot Anchor – Minimum Hold Down Weight (kg)			
	Omni or Yagi	Ø300 Dish	Ø600 Dish	Ø900 Dish
1.5	3.0	8.0	16.0	38.0
3.5	8.0	16.0	Not Suitable	Not Suitable
5.5	16.0	Not Suitable	Not Suitable	Not Suitable
7.5	21.0	Not Suitable	Not Suitable	Not Suitable
Minimum Sliding Anchor Resistance (kg)	7.5	10.0	25.0	47.0

Table S2: Tripod Mast – Braced With Guy Wire

Tripod Height (m)	Tripod Foot Anchor Minimum Hold Down Weight (kg)	Guy Wire Anchor – Minimum Hold Down Weight (kg)		
		Ø300 Dish	Ø600 Dish	Ø900 Dish
1.5	Not Applicable	Not Applicable	Not Applicable	Not Applicable
3.5	8.0	Not Applicable	41.0	76.0
5.5	10.0	19.0	43.0	88.0
7.5	10.0	36.0	53.0	108.0
Minimum Sliding Anchor Resistance On Guy Wire Anchor (kg)		30.0	50.0	71.0