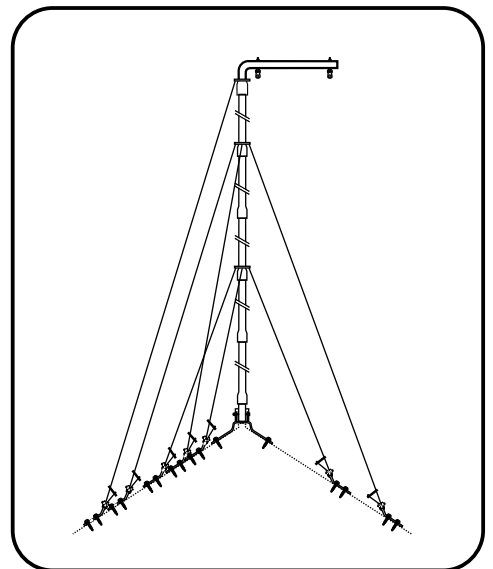
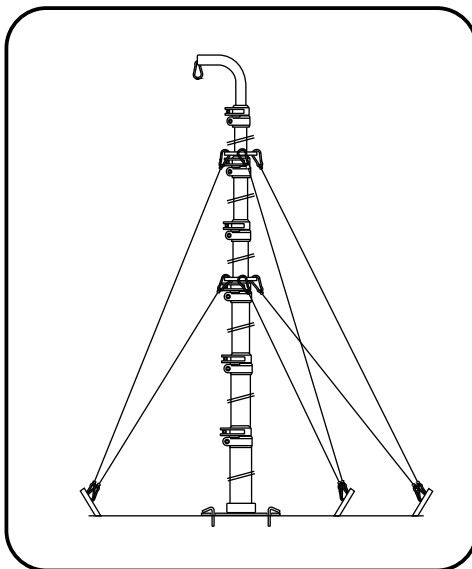
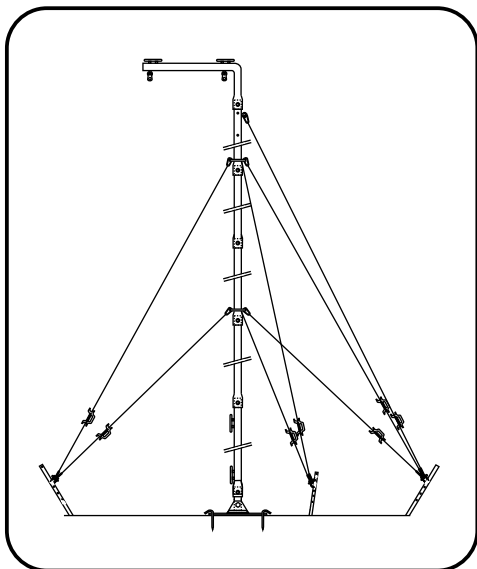
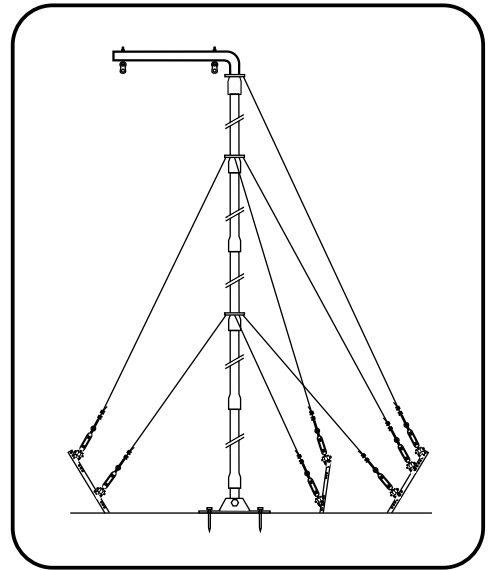
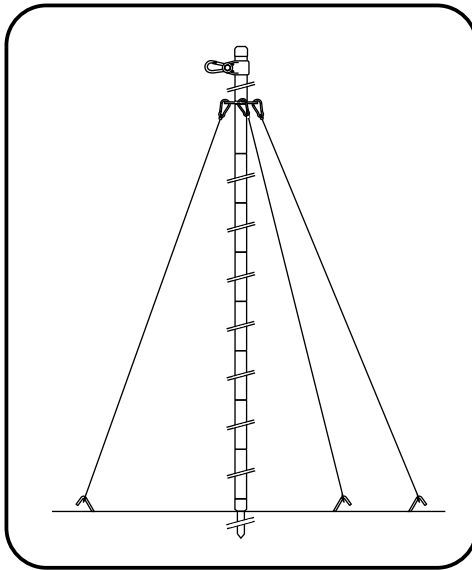
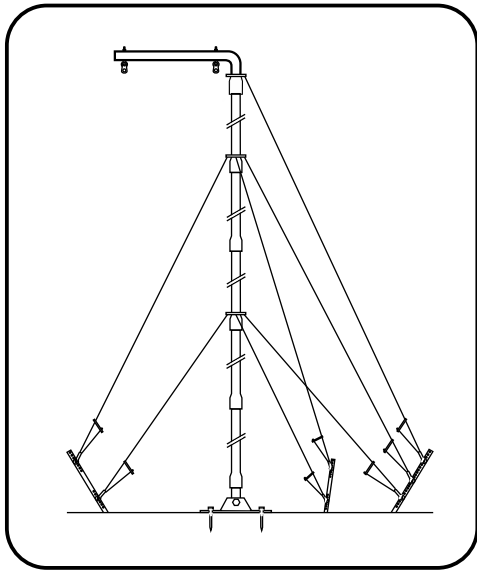


# Mast Guide

## Base Station and Rapid Deployment Masts



# 10 Metre Mast - (P/N BC90205)

With Nylon Guys for Ground Mounting

## Compatible Barrett antennas

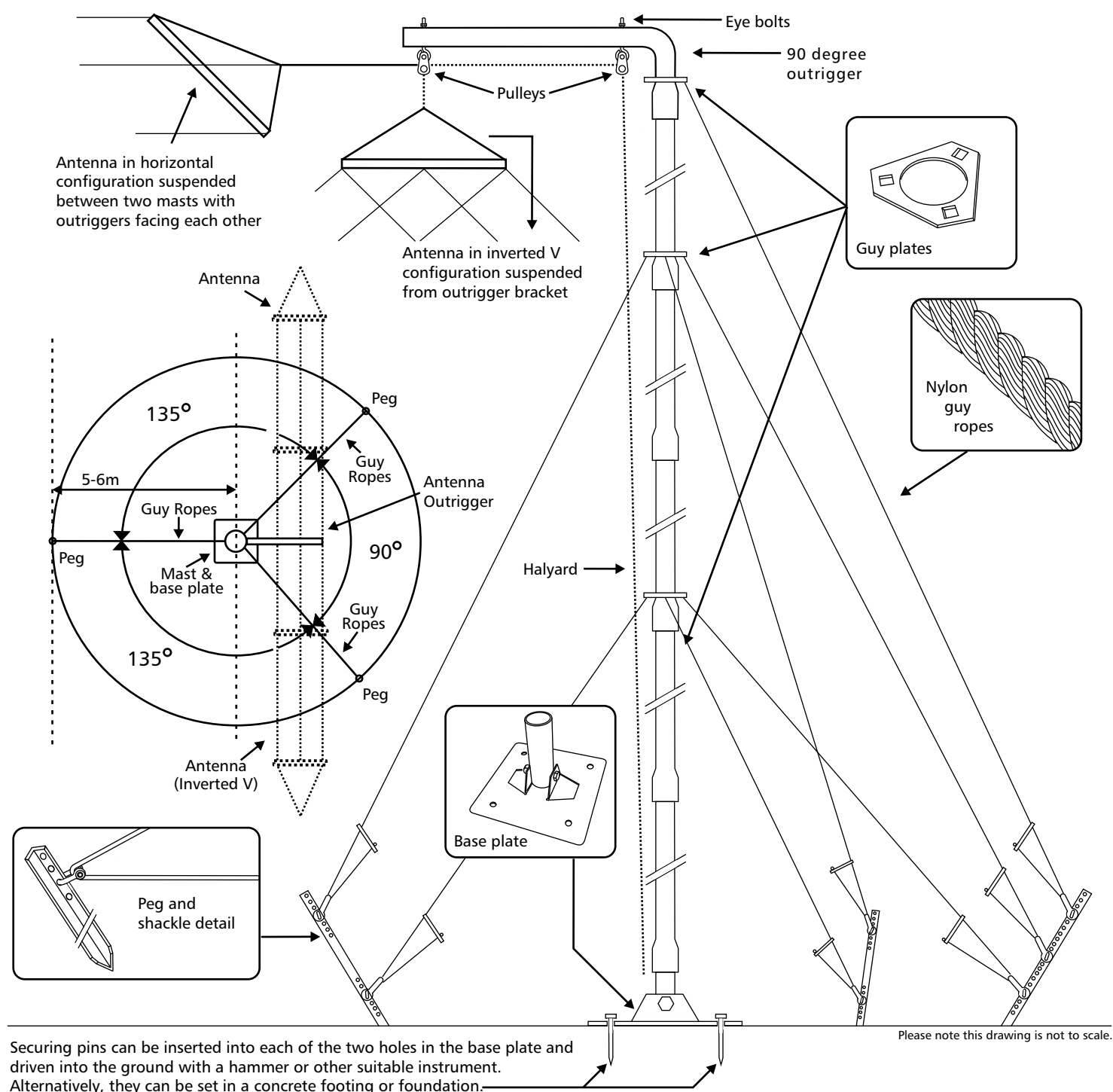
912 HF Single-wire broadband dipole 150 W	P/N: BC91201
912 HF Multi-wire broadband dipole 150 W	P/N: BC91200
912 HF Multi-wire broadband dipole 500 W	P/N: BC91202
912 HF Multi-wire broadband dipole 1kW	P/N: BC91203
4047 Automatic tuning horizontal dipole 150 W	P/N: BC404701

## Specifications

Packed dimensions:	2000 mm x 200 mm x 350 mm
Packed weight:	27 kg
Wind rating:	120 kph

This air transportable mast consists of 5 x 2m aluminium sections with a 0.85m antenna support outrigger on the top section. There are 2 sets of 3 guy ropes and one back-stay guy rope to counter the weight of the antenna. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below. Peg spacing should be min 5 metres/max 6 metres from mast and at the angles shown below. Once the pegs and base plate have been positioned and secured, fit the guy ropes, lift the mast into position and tighten the guy ropes.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.



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# 10 Metre Mast - (P/N BC90205FR)

## With Nylon Guys for Flat Roof Mounting

### Compatible Barrett antennas

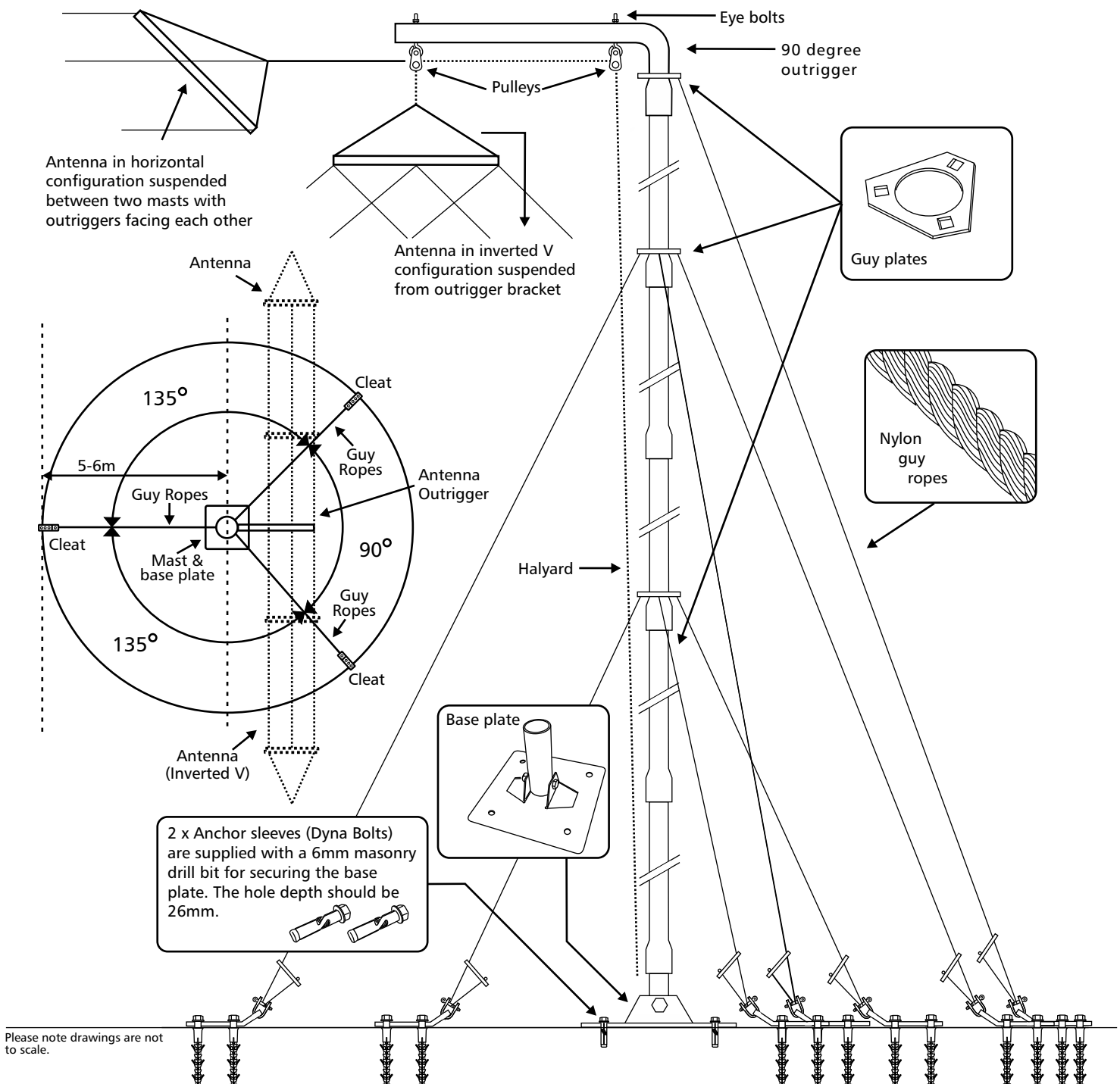
912 HF Single-wire broadband dipole 150 W	P/N: BC91201
912 HF Multi-wire broadband dipole 150 W	P/N: BC91200
912 HF Multi-wire broadband dipole 500 W	P/N: BC91202
912 HF Multi-wire broadband dipole 1kW	P/N: BC91203
4047 Automatic tuning horizontal dipole 150 W	P/N: BC404701

### Specifications

Packed dimensions:	2000 mm x 200 mm x 350 mm
Packed weight:	27 kg
Wind rating:	120 kph

This air transportable mast consists of 5 x 2m aluminium sections with a 0.85m antenna support outrigger on the top section. There are 2 sets of 3 guy ropes and one back-stay guy rope to counter the weight of the antenna. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below. Cleat spacing should be min 5 metres/max 6 metres from mast and at the angles shown below. Once the cleats and base plate have been positioned and secured, fit the guy ropes, lift the mast into position and tighten the guy ropes.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.



# 10 Metre Mast - (P/N BC90205PR)

With Nylon Guys for Pitched Roof Mounting

## Compatible Barrett antennas

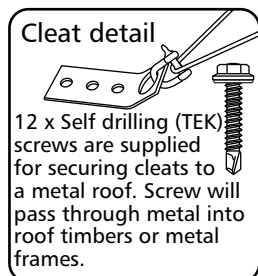
912 HF Single-wire broadband dipole 150 W P/N: BC91201  
 912 HF Multi-wire broadband dipole 150 W P/N: BC91200  
 912 HF Multi-wire broadband dipole 500 W P/N: BC91202  
 912 HF Multi-wire broadband dipole 1kW P/N: BC91203  
 4047 Auto tuning horizontal dipole 150 W P/N: BC404701

## Specifications

Packed dimensions: 2000 mm x 200 mm x 350 mm  
 Packed weight: 27 kg  
 Wind rating: 120 kph

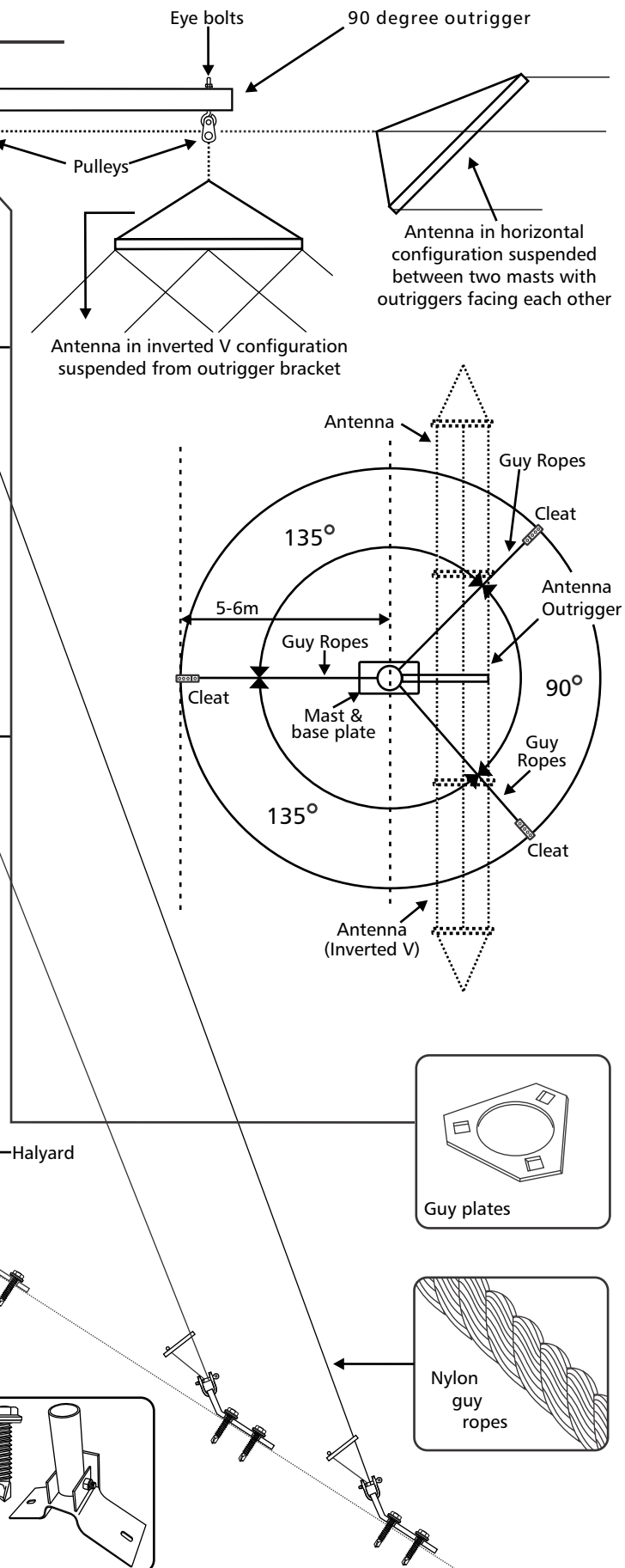
This air transportable mast consists of 5 x 2m aluminium sections with a 0.85m antenna support outrigger on the top section. There are 2 sets of 3 guy ropes and one back-stay guy rope to counter the weight of the antenna. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown opposite. Cleat spacing should be min 5 metres/max 6 metres from mast and at the angles shown opposite. Once the cleats and base plate have been positioned and secured, fit the guy ropes, lift the mast into position and tighten the guy ropes.

Please note that the supplied hardware and fixings are suitable for most standard installations. However some end user sourced hardware and fixings may be required for specific locations.



## Base plate detail

2 x Self drilling (TEK) screws are supplied for securing the base plate to a metal roof. Screw will pass through metal into metal or timber frames.



# 10 Metre Mast - (P/N BC90206)

## With Stainless Steel Guys for Ground Mounting

### Compatible Barrett antennas

912 HF Single-wire broadband dipole 150 W  
 912 HF Multi-wire broadband dipole 150 W  
 912 HF Multi-wire broadband dipole 500 W  
 912 HF Multi-wire broadband dipole 1kW  
 4047 Automatic tuning horizontal dipole 150 W

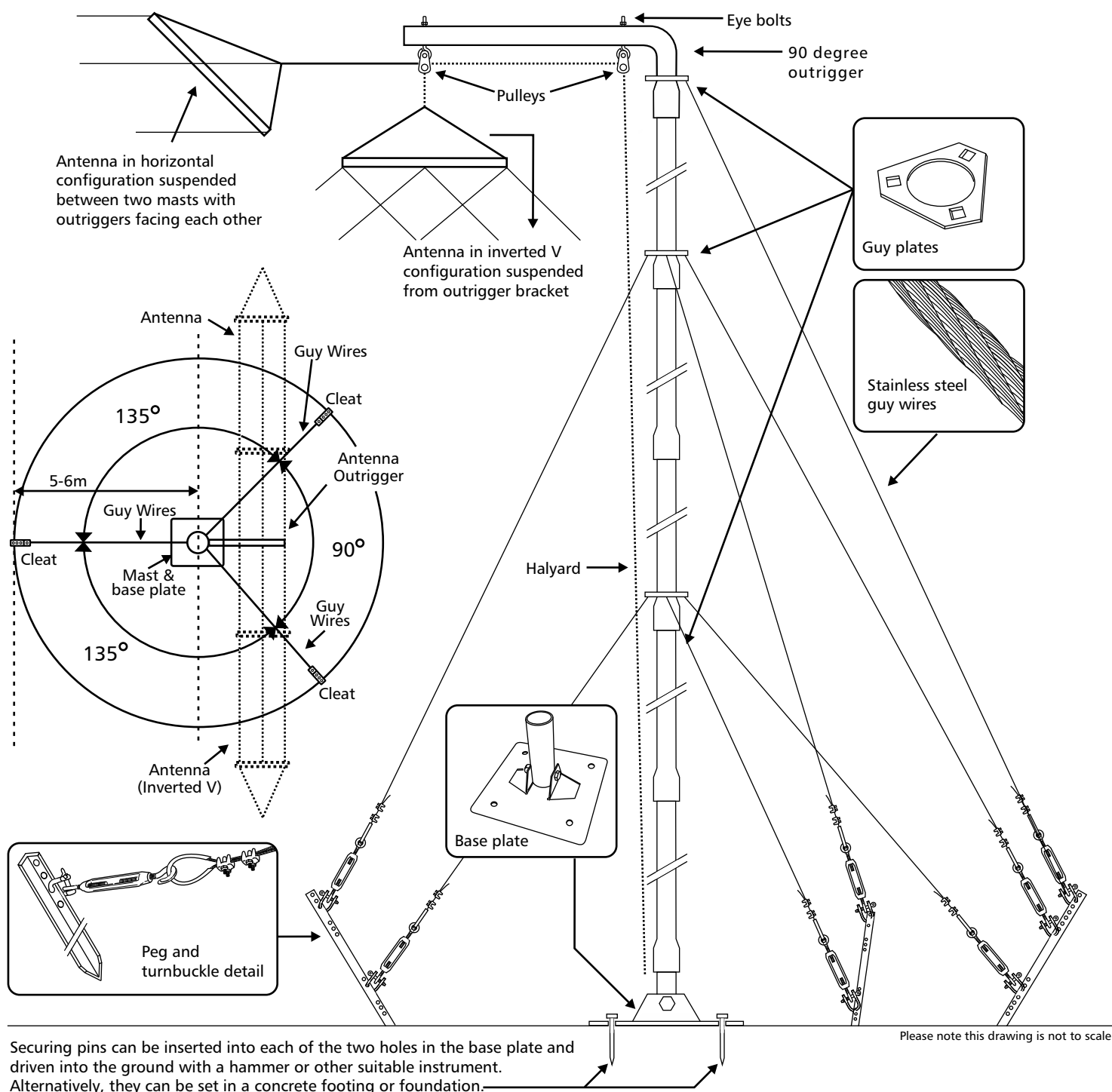
P/N: BC91201  
 P/N: BC91200  
 P/N: BC91202  
 P/N: BC91203  
 P/N: BC404701

### Specifications

Packed dimensions: 2000 mm x 200 mm x 350 mm  
 Packed weight: 32 kg  
 Wind rating: 120 kph

This air transportable mast consists of 5 x 2m aluminium sections with a 0.85m antenna support outrigger on the top section. There are 2 sets of 3 stainless steel guy wires and one back-stay guy wire to counter the weight of the antenna. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below. Peg spacing should be min 5 metres/max 6 metres from mast and at the angles shown below. Once the pegs and base plate have been positioned and secured, fit the guy wires, lift the mast into position and tighten the guy wires.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.



Please note this drawing is not to scale.

# 10 Metre Mast - (P/N BC90206FR)

## With Stainless Steel Guys for Flat Roof Mounting

### Compatible Barrett antennas

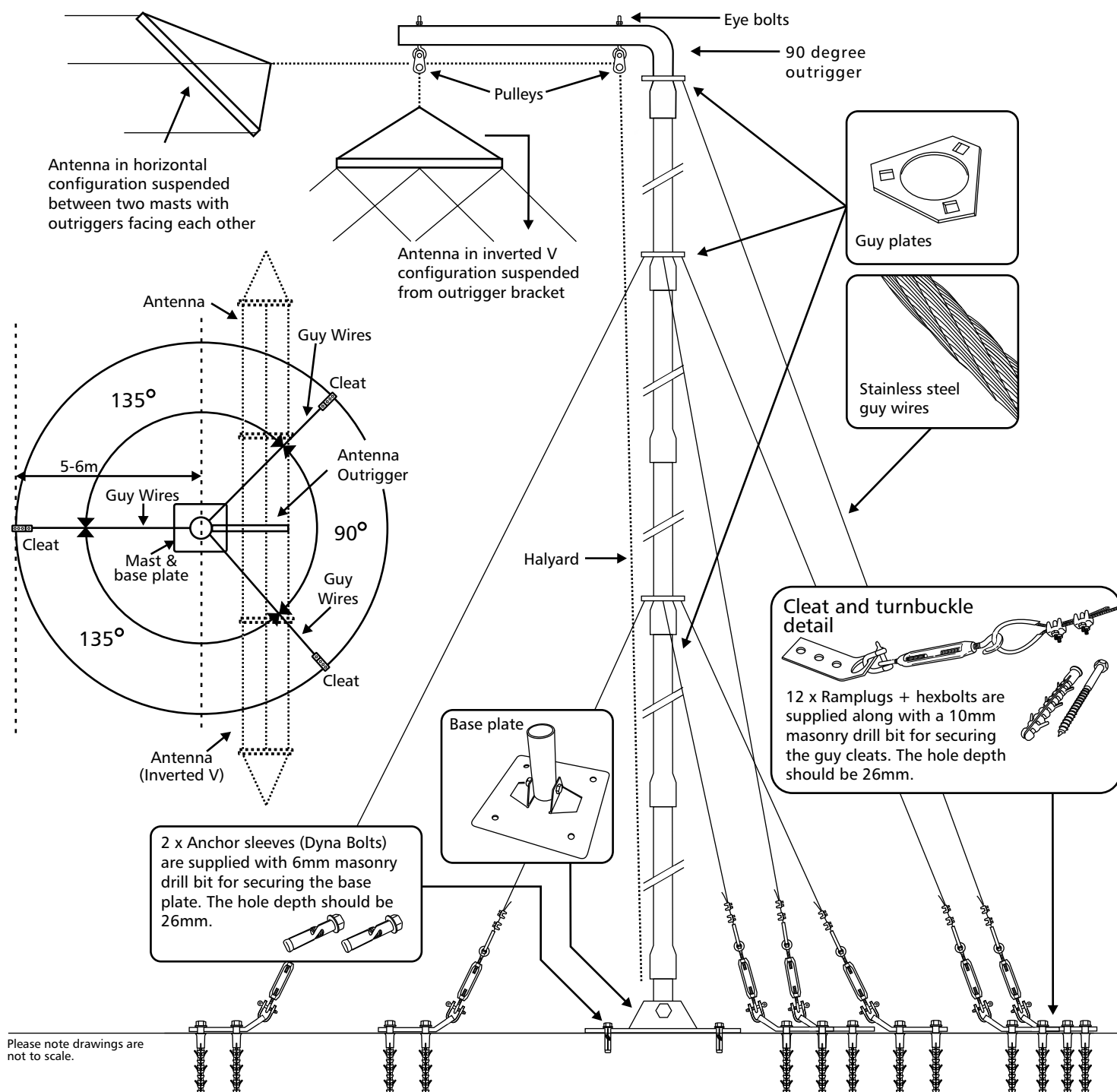
912 HF Single-wire broadband dipole 150 W	P/N: BC91201
912 HF Multi-wire broadband dipole 150 W	P/N: BC91200
912 HF Multi-wire broadband dipole 500 W	P/N: BC91202
912 HF Multi-wire broadband dipole 1kW	P/N: BC91203
4047 Automatic tuning horizontal dipole 150 W	P/N: BC404701

### Specifications

Packed dimensions:	2000 mm x 200 mm x 350 mm
Packed weight:	32 kg
Wind rating:	120 kph

This air transportable mast consists of 5 x 2 metre aluminium sections with a 0.85m antenna support outrigger on the top section. There are 2 sets of 3 stainless steel guy wires and one back-stay guy wire to counter the weight of the antenna. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below. Cleat spacing should be min 5 metres/max 6 metres from mast and at the angles shown below. Once the cleat and base plate have been positioned and secured, fit the guy wires, lift the mast into position and tighten the guy wires.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.





# 10 Metre Mast - (P/N BC90206PR)

With Stainless Steel Guys for Pitched Roof Mounting

## Compatible Barrett antennas

912 HF Single-wire broadband dipole 150 W P/N: BC91201  
 912 HF Multi-wire broadband dipole 150 W P/N: BC91200  
 912 HF Multi-wire broadband dipole 500 W P/N: BC91202  
 912 HF Multi-wire broadband dipole 1kW P/N: BC91203  
 4047 Auto tuning horizontal dipole 150 W P/N: BC404701

## Specifications

Packed dimensions: 2000 mm x 200 mm x 350 mm  
 Packed weight: 32 kg  
 Wind rating: 120 kph

This air transportable mast consists of 5 x 2 metre aluminium sections with a 0.85m antenna support outrigger on the top section. There are 2 sets of 3 stainless steel guy wires and one back-stay guy wire to counter the weight of the antenna. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below. Cleat spacing should be min 5 metres/max 6 metres from mast and at the angles shown below. Once the cleat and base plate have been positioned and secured, fit the guy wires, lift the mast into position and tighten the guy wires.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.

### Cleat detail



12 x Self drilling (TEK) screws are supplied for securing cleats to a metal roof. Screw will pass through metal into metal or timber frames.

### Base plate detail



2 x Self drilling (TEK) screws are supplied for securing the base plate to a metal roof. Screw will pass through metal into metal or timber frames.

Please note drawings are not to scale.

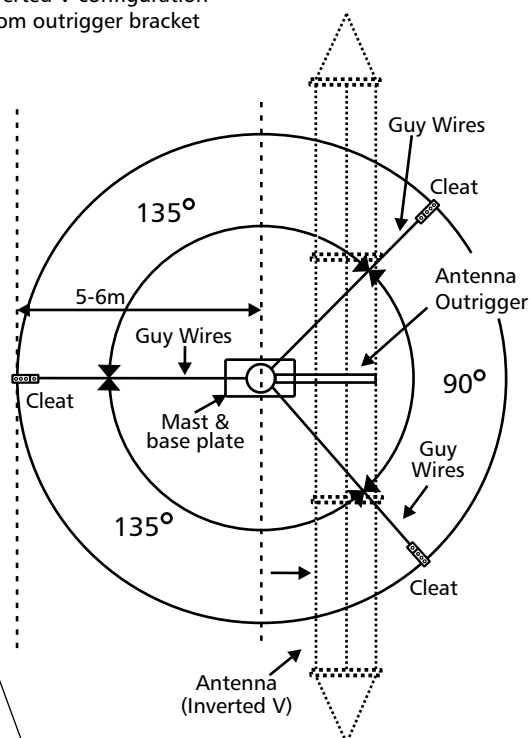
Eye bolts

90 degree outrigger

Pulleys

Antenna in inverted V configuration suspended from outrigger bracket

Antenna in horizontal configuration suspended between two masts with outriggers facing each other



Guy plates

Stainless steel guy wires

Halyard

# 6 Metre Mast - (P/N BC90209)

With Nylon Guys for Ground Mounting

## Compatible Barrett antennas

4047 Automatic tuning horizontal dipole 150 W

P/N: BC404701

## Specifications

Packed dimensions: 2000 mm x 200 mm x 200 mm

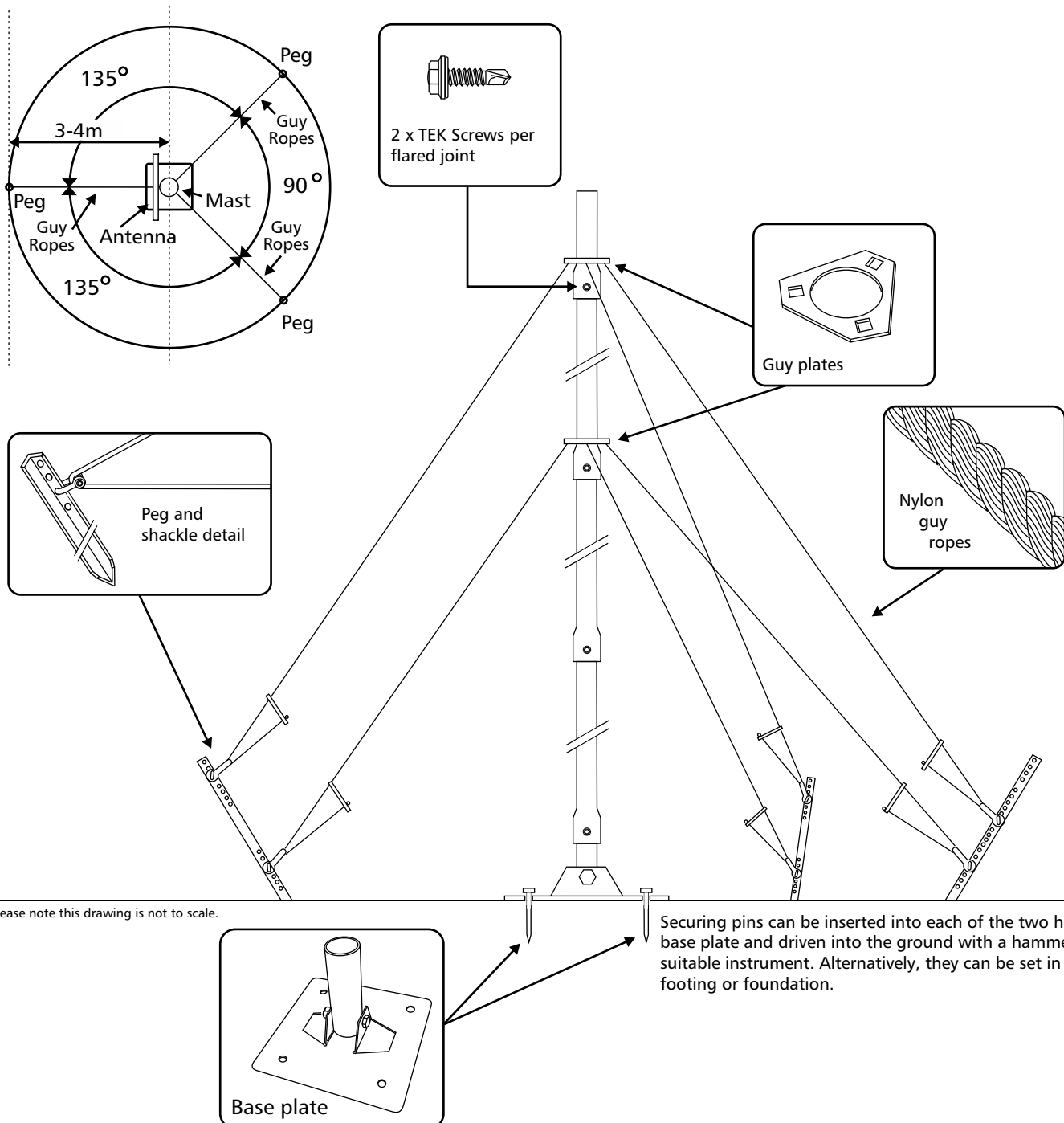
Packed weight: 20 kg

Wind rating: 120 kph

This air transportable mast consists of 3 x 2m aluminium sections with a 0.5m, 50mm diameter, vertical top section. There are 2 sets of 3 guy ropes. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below with TEK screws at each join to prevent movement.

Peg spacing should be min 3 metres/max 4 metres from mast and at the angles shown below. Once the pegs and base plate have been positioned and secured, fit the guy ropes, lift the mast into position and tighten the guy ropes.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.





# 6 Metre Mast - (P/N BC90209FR)

With Nylon Guys for Flat Roof Mounting

## Compatible Barrett antennas

4047 Automatic tuning horizontal dipole 150 W

P/N: BC404701

## Specifications

Packed dimensions: 2000 mm x 200 mm x 200 mm

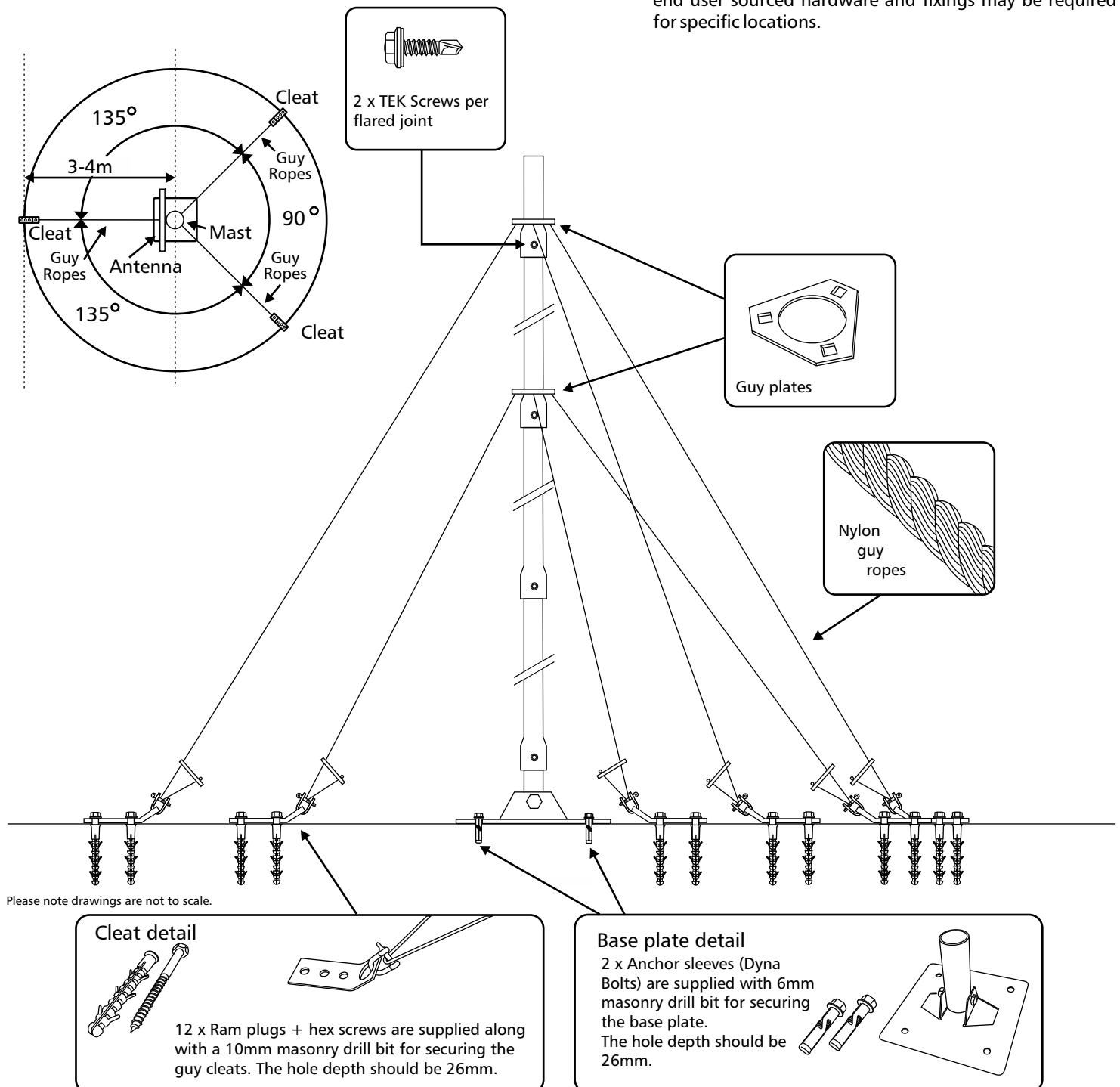
Packed weight: 24 kg

Wind rating: 120 kph

This air transportable mast consists of 3 x 2m aluminium sections with a 0.5m, 50mm diameter, vertical top section. There are 2 sets of 3 guy ropes. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below with TEK screws at each join to prevent movement.

Cleat spacing should be min 3 metres/max 4 metres from mast and at the angles shown below. Once the cleats and base plate have been positioned and secured, fit the guy ropes, lift the mast into position and tighten the guy ropes.

Please note that supplied hardware and fixings should be suitable for most standard installations. However some end user sourced hardware and fixings may be required for specific locations.





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## 6 Metre Mast - (P/N BC90209PR)

With Nylon Guys for Pitched Roof Mounting

### Compatible Barrett antennas

4047 Automatic tuning horizontal dipole 150 W

P/N: BC404701

### Specifications

Packed dimensions: 2000 mm x 200 mm x 200 mm

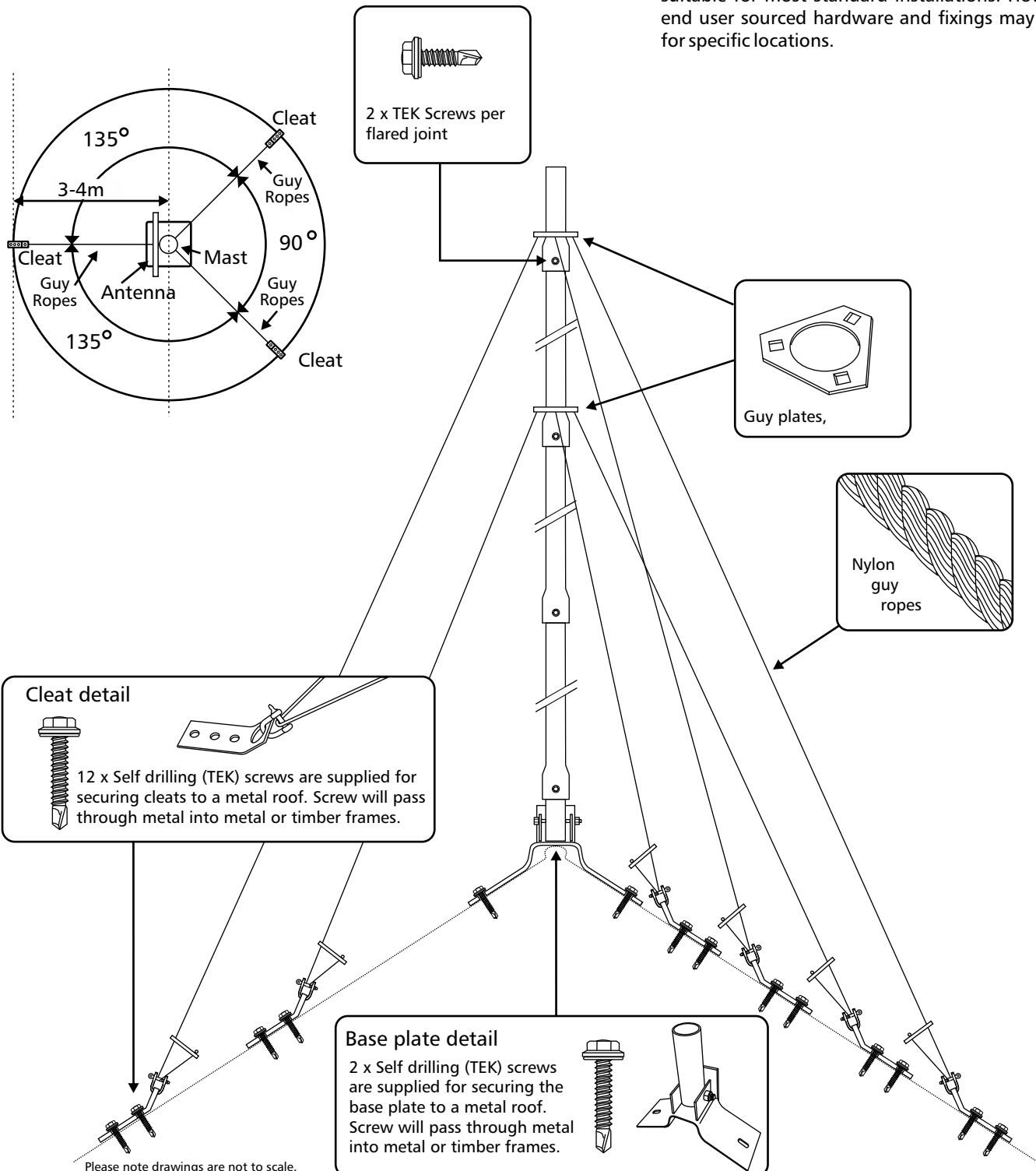
Packed weight: 24 kg

Wind Rating: 120 kph

This air transportable mast consists of 3 x 2m aluminium sections with a 0.5m, 50mm diameter, vertical top section. There are 2 sets of 3 rope guys. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below with TEK screws at each joint to prevent movement.

Cleat spacing should be min 3 metres/max 4 metres from mast and at the angles shown below. Once the cleats and base plate have been positioned and secured, fit the guy ropes, lift the mast into position and tighten the guy ropes.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.



# 6 Metre Mast - (P/N BC90208)

With Stainless Steel Guys for Ground Mounting

## Compatible Barrett antennas

4047 Automatic tuning horizontal dipole 150 W

P/N: BC404701

## Specifications

Packed dimensions: 2000 mm x 200 mm x 200 mm

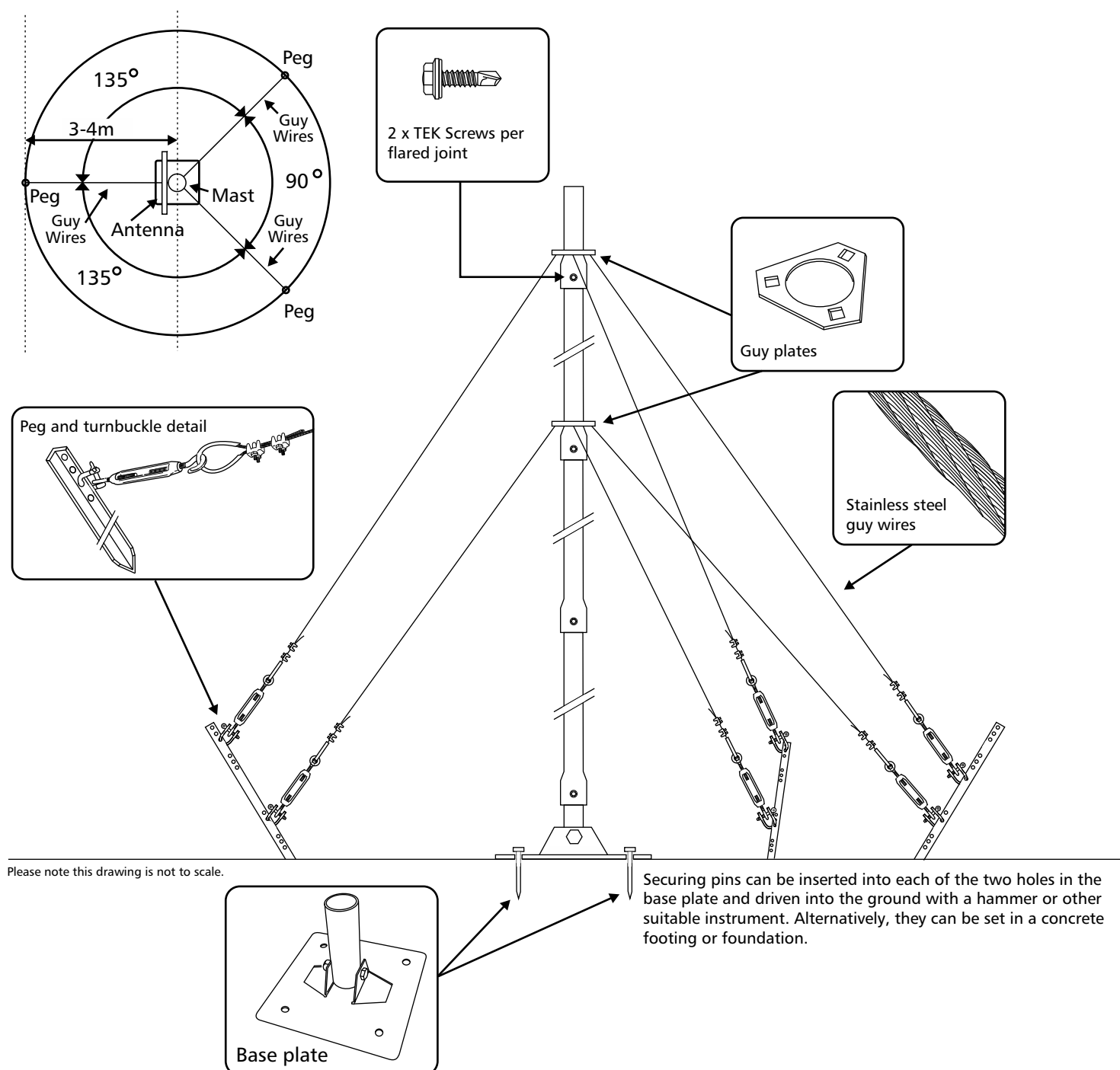
Packed weight: 24 kg

Wind rating: 120 kph

This air transportable mast consists of 3 x 2m aluminium sections with a 0.5m, 50mm diameter, vertical top section. There are 2 sets of 3 stainless steel guy wires. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below with TEK screws at each join to prevent movement.

Peg spacing should be min 3 metres/max 4 metres from mast and at the angles shown below. Once the pegs and base plate have been positioned and secured, fit the guy wires, lift the mast into position and tighten the guy wires.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.





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## 6 Metre Mast - (P/N BC90208FR)

With Stainless Steel Guys for Flat Roof Mounting

### Compatible Barrett antennas

4047 Automatic tuning horizontal dipole 150 W

P/N: BC404701

### Specifications

Packed dimensions: 2000 mm x 200 mm x 200 mm

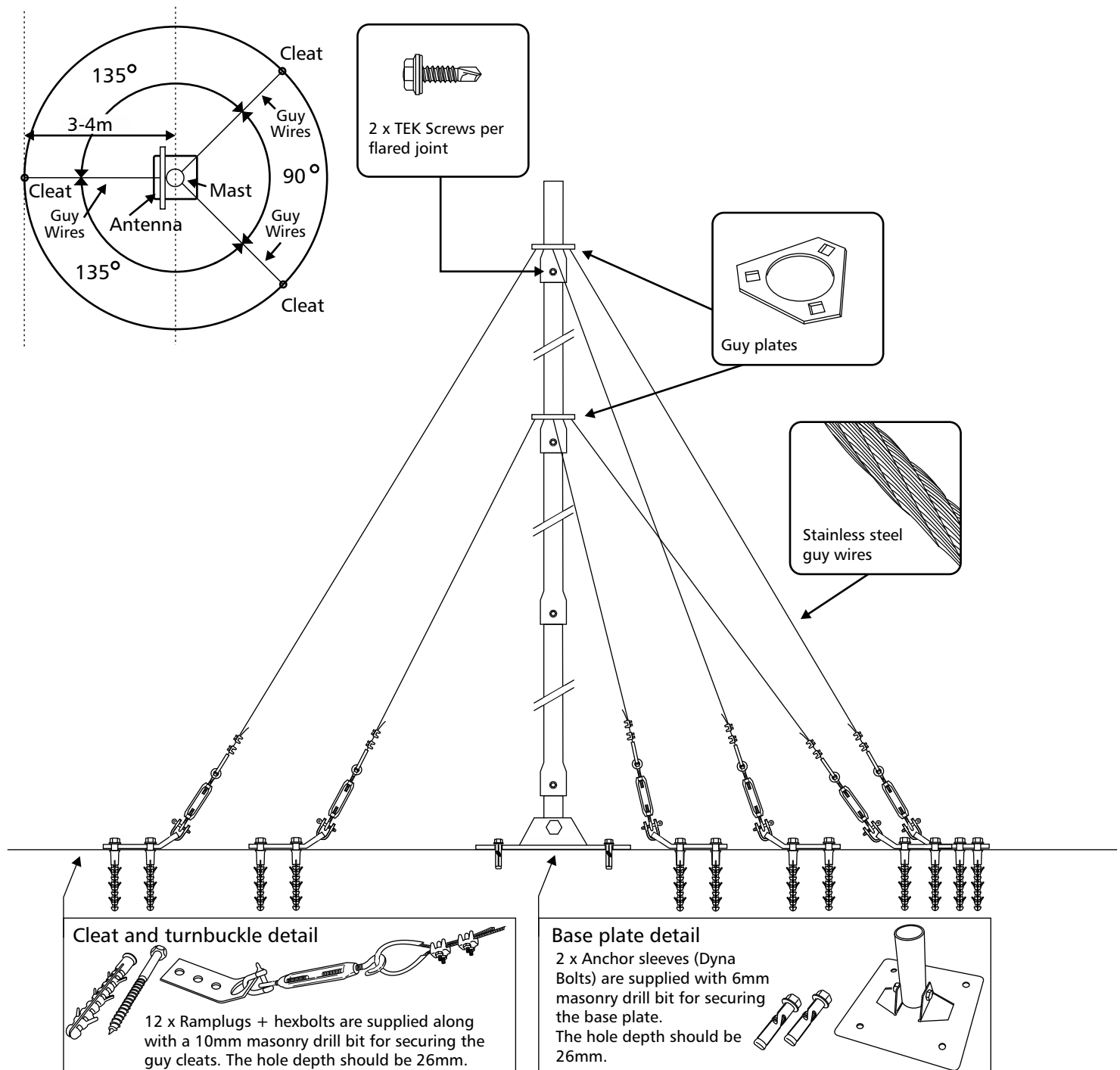
Packed weight: 24 kg

Wind rating: 120 kph

This air transportable mast consists of 3 x 2m aluminium sections with a 0.5m, 50mm diameter, vertical top section. There are 2 sets of 3 stainless steel guy wires. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below with TEK screws at each join to prevent movement.

Cleat spacing should be min 3 metres/max 4 metres from mast and at the angles shown below. Once the cleats and base plate have been positioned and secured, fit the guy wires, lift the mast into position and tighten the guy wires.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.



Please note drawings are not to scale.

# 6 Metre Mast - (P/N BC90208PR)

## With Stainless Steel Guys for Pitched Roof Mounting

### Compatible Barrett antennas

4047 Automatic tuning horizontal dipole 150 W

P/N: BC404701

### Specifications

Packed dimensions: 2000 mm x 200 mm x 200 mm

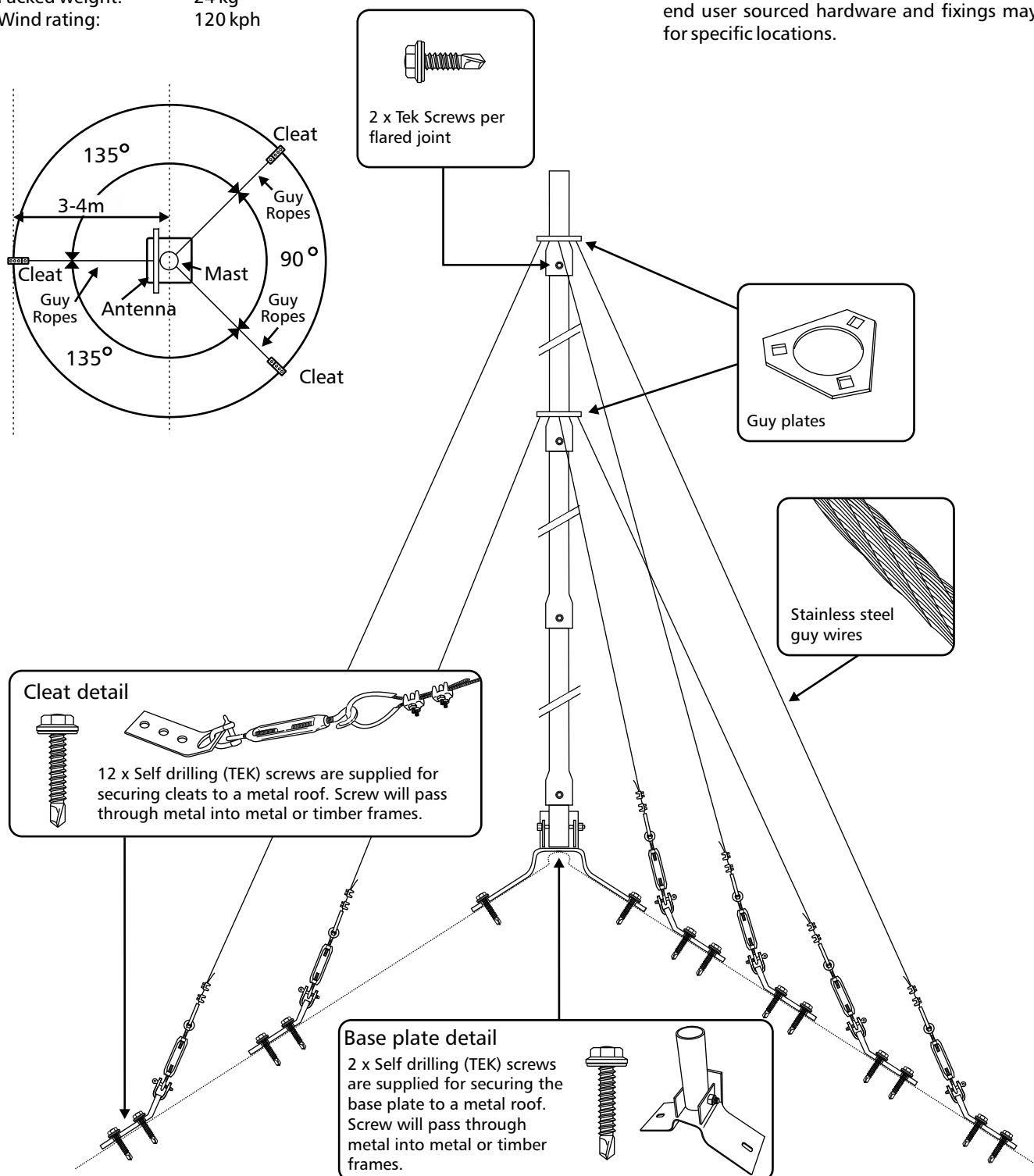
Packed weight: 24 kg

Wind rating: 120 kph

This air transportable mast consists of 3 x 2m aluminium sections with a 0.5m 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Erection of the mast requires a minimum of two people. All sections are to be assembled as shown below with TEK screws at each join to prevent movement.

Cleat spacing should be min 3 metres/max 4 metres from mast and at the angles shown below. Once the cleats and base plate have been positioned and secured, fit the guy wires, lift the mast into position and tighten the guy wires.

Please note that the supplied hardware and fixings are suitable for most standard installations. However, some end user sourced hardware and fixings may be required for specific locations.



Please note drawings are not to scale.

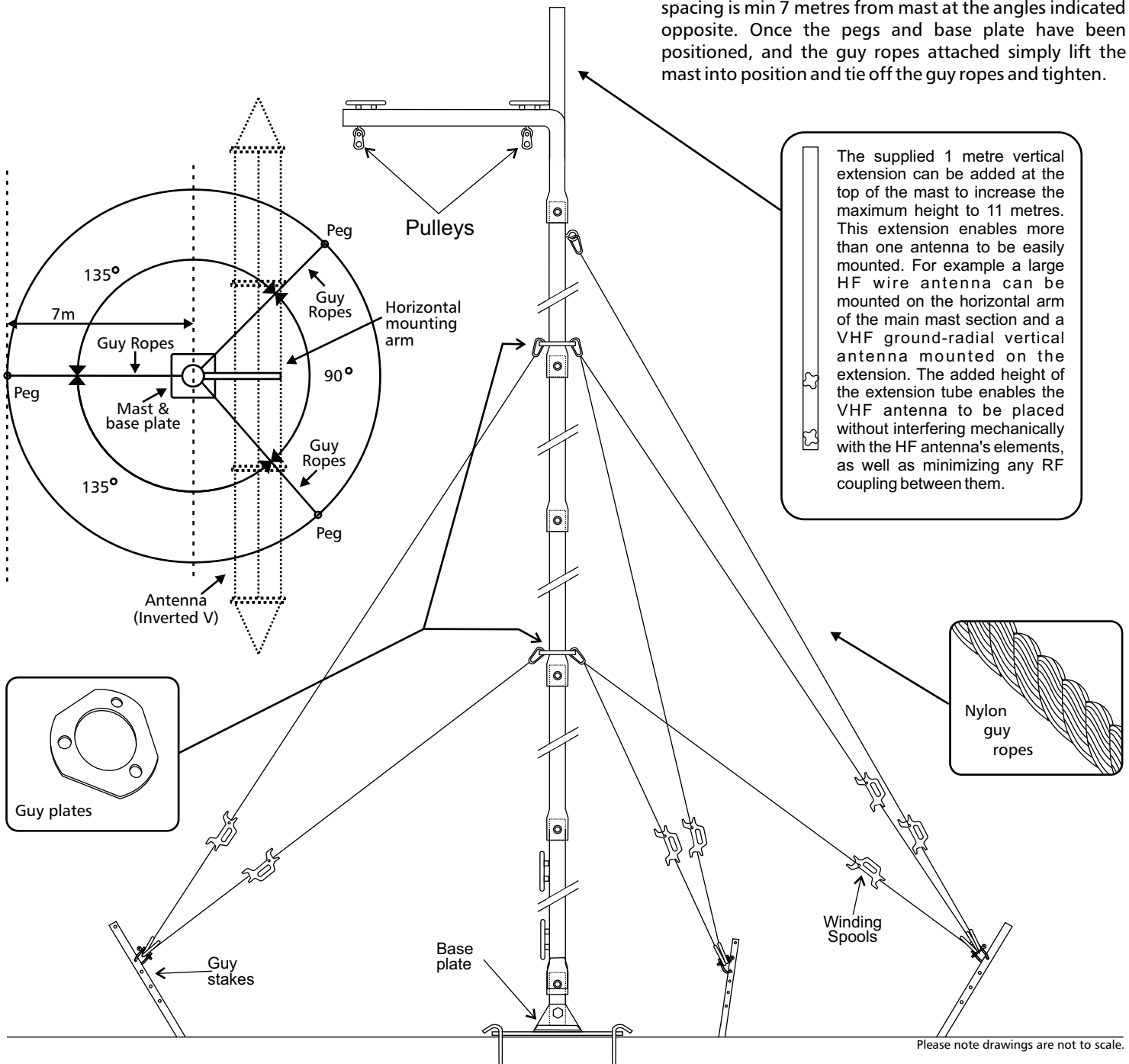
# 10 Metre Rapid Deployment Mast - (P/N 2090-02-21)

## Compatible Barrett antennas

HF 912 Single-wire broadband dipole 150 W	P/N: BC91201
HF 912 Multi-wire broadband dipole 150 W	P/N: BC91200
HF 912 Multi-wire broadband dipole 500 W	P/N: BC91202
4047 Automatic tuning horizontal dipole 150 W	P/N: BC404701
HF-Rapid deployment wire dipole antenna 150 W	P/N: 2090-02-01
HF-Rapid deployment broadband dipole antenna 150 W	P/N: 2090-02-03
HF Rapid deployment two wire broadband dipole 150 W	P/N: 2090-02-20
VHF Tactical rapid deployment antenna	P/N: 2086-02-10
VHF 30 to 108 MHz elevated wideband antenna	P/N: 2083-02-03
VHF 30 to 108 MHz centre-fed whip antenna	P/N: 2083-02-01

This rapid deployment air transportable 10m mast consists of 2.1 metre aluminium sections with collared end joints. The collars are self locking to prevent rotation/twisting along the length of the mast. Lower heights are achievable by using fewer sections. A tubular horizontal mounting arm, with pulleys, attaches to the top of the mast to enable large wire antennas to be raised in place once the mast is erected. A rope halyard is included for this purpose. In addition, a 1 metre vertical extension is also supplied (details below). Guy ropes and halyard are supplied on winding spools to facilitate rapid deployment of the mast. The mast is supplied with all components required for deployment. The complete mast kit is contained in a rugged canvas carry-bag.

Erection of the mast requires a minimum of two persons. Assemble all mast sections as per the diagram below. Peg spacing is min 7 metres from mast at the angles indicated opposite. Once the pegs and base plate have been positioned, and the guy ropes attached simply lift the mast into position and tie off the guy ropes and tighten.





# 5 Metre Rapid Deployment Mast - (P/N 2090-02-04)

## Compatible Barrett antennas

HF-Rapid deployment wire dipole antenna 150 W	P/N: 2090-02-01
HF-Rapid deployment broadband dipole antenna 150 W	P/N: 2090-02-03
HF-Long wire throw out antenna	P/N: 2090-02-06

## Specifications

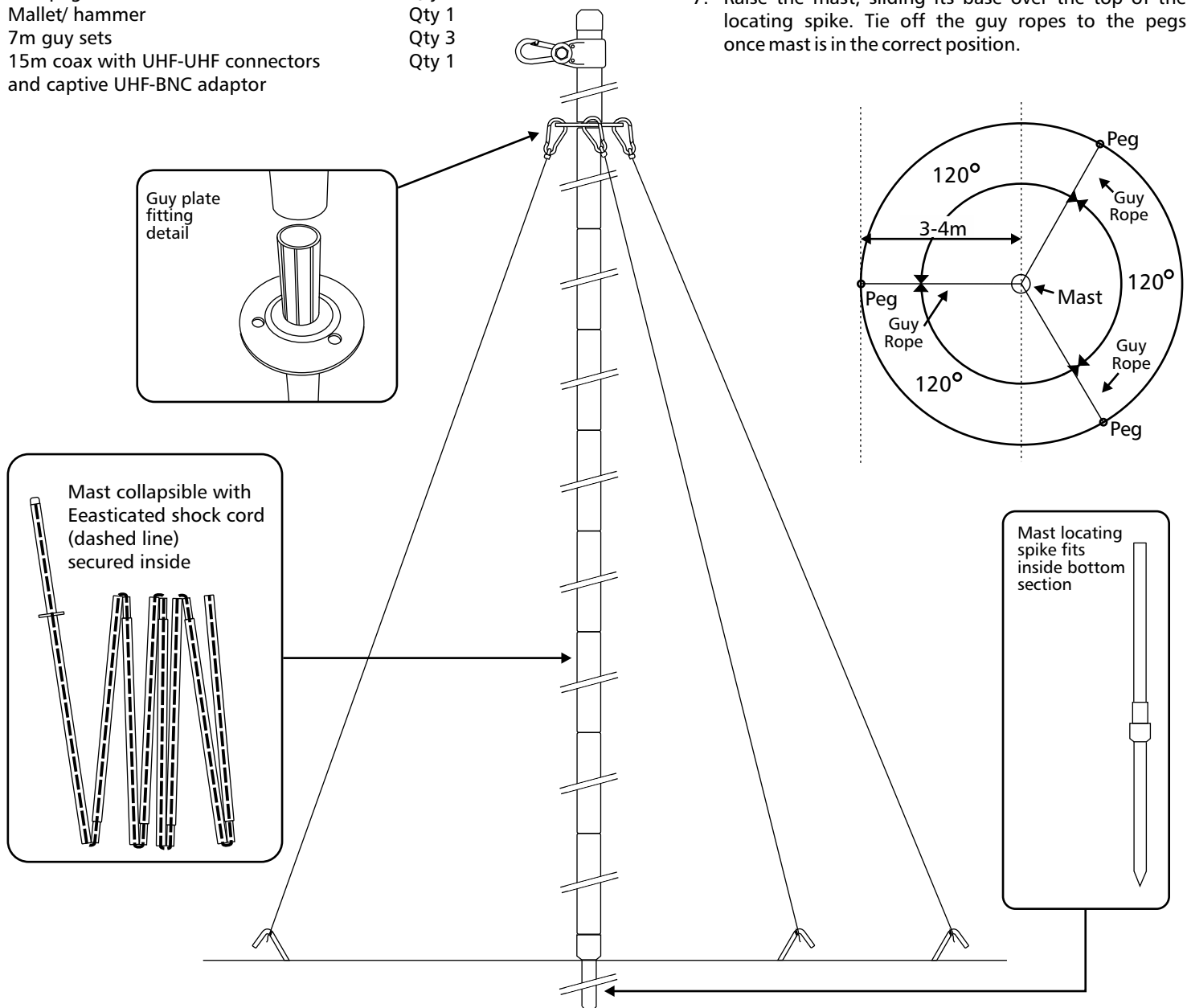
Mast material:	25mm round aluminium tube, NATO Green.
Packed dimensions:	L-830mm x W-220mm x H-140mm
Packed Weight:	6.2kg

## Mast Kit Contents

Carry bag, NATO Green, with snap closures	Qty 1
Mast 5m (8 piece)	Qty 1
Spike for locating mast base	Qty 1
Tent pegs	Qty 3
Mallet/ hammer	Qty 1
7m guy sets	Qty 3
15m coax with UHF-UHF connectors and captive UHF-BNC adaptor	Qty 1

The Barrett Rapid Deployment Mast is a lightweight, transportable pole construction kit for use as a temporary 5m tower solution in the field.

1. Place the mast on the ground. The 8 sections of the mast which are held together with elasticated shock cord can now be fully extended.
2. Clip the guy ropes including winder/tensioner to the guy plate.
3. Attach the antenna to the snap hook at the top of the mast
4. Connect the coaxial cable to the antenna and secure to the length of the mast with the velcro loops provided
5. Drive the mast base locating spike into the ground for approx half its length then slide the grey collar over the top of the spike with the narrow end pointing up.
6. Drive the 3 pegs into the ground at 120 degree intervals 3-4metres from the mast pole as shown in the diagram below.
7. Raise the mast, sliding its base over the top of the locating spike. Tie off the guy ropes to the pegs once mast is in the correct position.



# 10 Metre Rapid Deployment Composite Mast (P/N 2090-02-24)

## Compatible Barrett antennas

VHF 30 to 108 MHz elevated wideband VHF antenna	P/N: 2083-02-03
HF-Rapid deployment wire dipole antenna 150 W	P/N: 2090-02-01
HF-Rapid deployment broadband dipole antenna 150 W	P/N: 2090-02-03
HF-Long wire throw out antenna	P/N: 2090-02-06
HF Rapid deployment two wire broadband dipole 150 W	P/N: 2090-02-20

## Specifications

Retracted height	1960mm
Mast material:	Composite telescopic tube, Black.
Packed Weight:	8.6kg

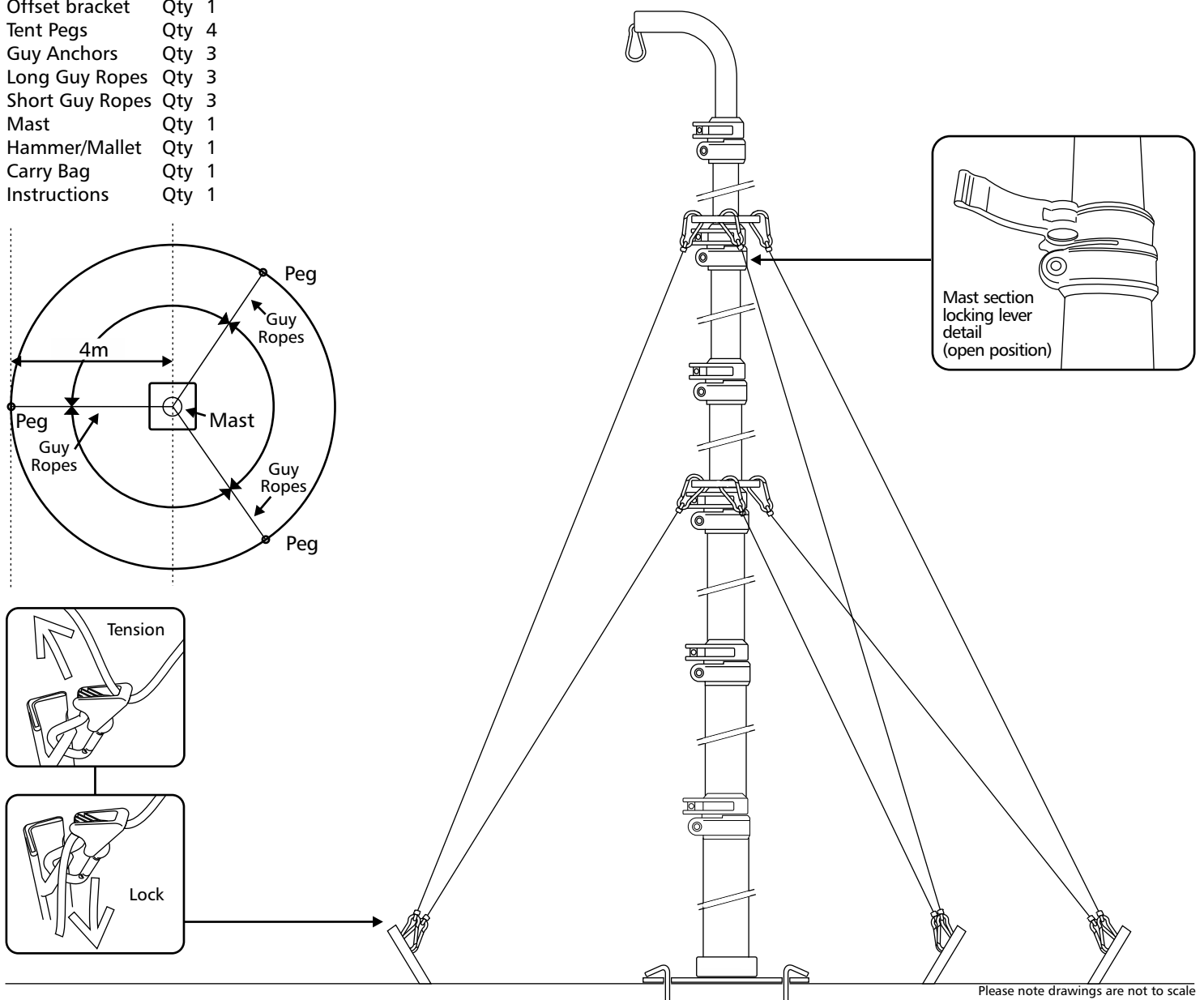
## Mast Kit Contents

Base Plate	Qty 1
Offset bracket	Qty 1
Tent Pegs	Qty 4
Guy Anchors	Qty 3
Long Guy Ropes	Qty 3
Short Guy Ropes	Qty 3
Mast	Qty 1
Hammer/Mallet	Qty 1
Carry Bag	Qty 1
Instructions	Qty 1

This rapid deployment mast consists of 7 sections (including the offset bracket) of composite tube which is extend telescopically with locking levers. The mast can be erected to any desired height. The last extension at the top of the mast (thinnest section) is only suitable for very light head loads.

Guy ropes are supplied on winding spools to facilitate rapid deployment of the mast. The mast is supplied with all components required for deployment. The complete mast kit is contained in a rugged canvas carry-bag. Please note a halyard for raising an antenna is not included.

Erection of the mast requires a minimum of two persons. Peg spacing is min 4 metres from mast at the angles indicated below. Once the pegs and base plate have been positioned and the guy ropes attached, simply extend the mast sections to the desired height locking off each section as required. Once the mast is at the correct height, tie off the guy ropes and tighten. The guy ropes (once tensioned) are secured with the "Clam Cleats" which are attached to the guy rope snap locks. Pull the guy rope up to tension and then pull down with the rope in the cleat groove as shown below.



Please note drawings are not to scale