

# STRUCTURAL MOUNT MEGA POST

## Kattsafe

### STRUCTURAL MOUNT MEGA POST - AP150

Structural mount mega post for raised fall arrest or rope access systems above garden beds or other areas.

Structural mount mega posts are for use in situations where a fall arrest or rope access system needs to be raised.

### FEATURES AND BENEFITS OF THE SYSTEM

- 15kN rated (fall arrest – including rescue).
- 18kN rated (rope access - two persons including rescue).
- High strength structural aluminium build.
- Various height options available.
- Can be used to raise various fall arrest systems including rigid rails, static lines and anchor points.



## STRUCTURAL MOUNT MEGA POST

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### Main attachment plate

Two 18mm holes for multiple attachment options. The welded aluminium top plate ensures a watertight seal.



### Adaptor plate

Stainless steel powder coated adaptor plate for easy attachment of Kattsafe fall arrest systems.



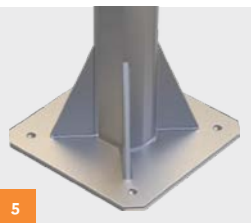
### Mast super structure

Engineered in structural aluminium for superior strength in all directions.



### Tested for rope access and fall arrest use

Tested to 18kN in all directions as per AS/NZS 5532:2013.



### Base plate

The base plate is constructed from 16mm thick aluminium, with 18mm fixing holes.



### Height options

Mast length options up to 1000mm, with custom heights available.



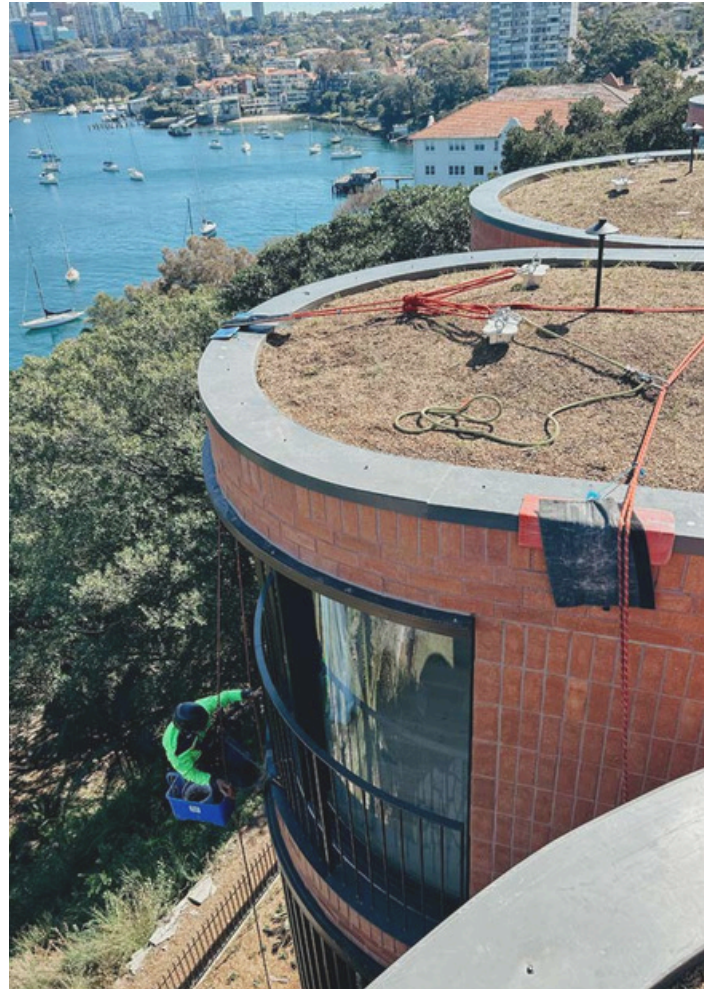


Structural mount mega posts are for use in situations where a fall arrest or rope access system needs to be raised above garden beds, or to reduce fall distance.

The structural mount mega post is a high-strength device, rated to both rope access and fall arrest loads. The mounting and adaptor plate allows multiple fall arrest system options to be used in conjunction with the structural mount mega post.

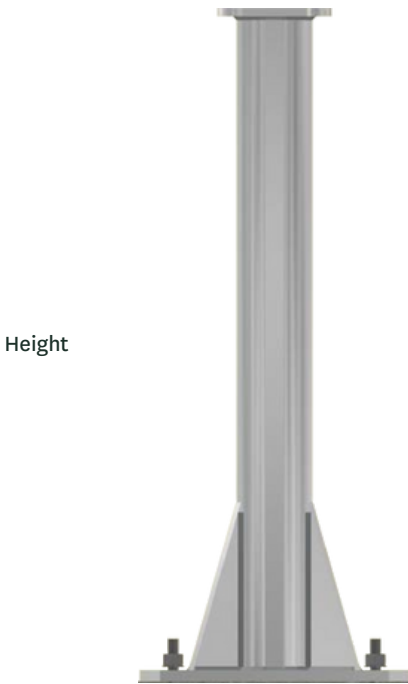
**Features and benefits of the system:**

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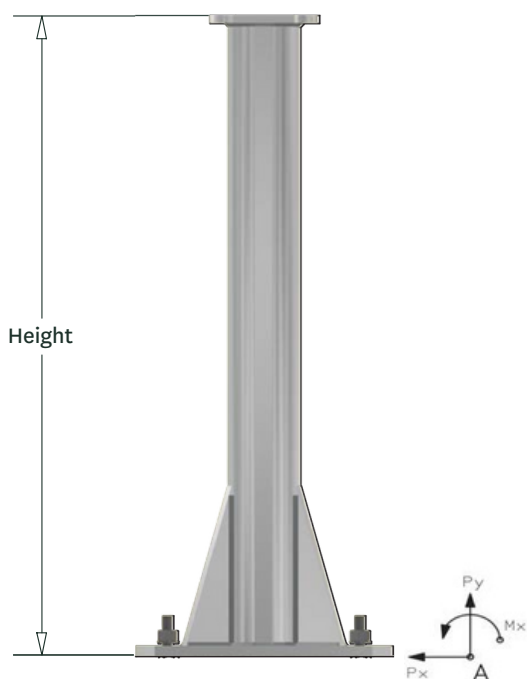
## PRODUCT DIMENSIONS

### Height options



Product code	Description	Height (mm)
AP150.0400	Structural mount mega post - 400mm	400
AP150.0600	Structural mount mega post - 600mm	600
AP150.0800	Structural mount mega post - 800mm	800
AP150.1000	Structural mount mega post - 1000mm	1000

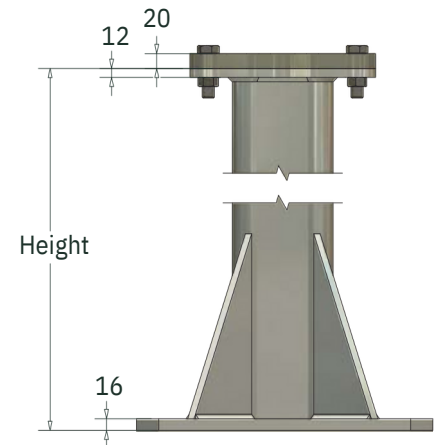
### Reaction load schedule (1.2 G + Ultimate Q)



Overall height (mm)	Forces at A (kN)		Moment at A (Mx)
	Px	Py	
1000	18.00 Px	0.20 Py	19.80
800	18.00 Px	0.20 Py	16.20
600	18.00 Px	0.20 Py	12.60
400	18.00 Px	0.20 Py	9.00

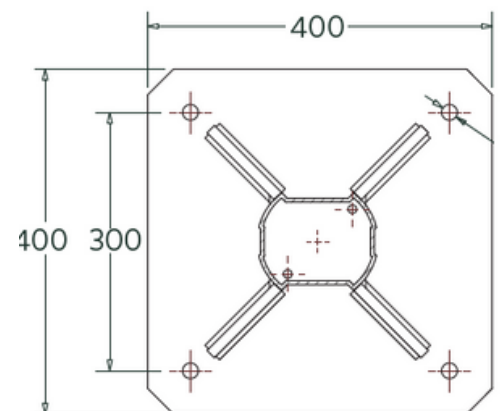
### Post dimensions

- Base plate: 16mm thick
- Top plate: 12mm thick
- Adaptor plate: 20mm thick



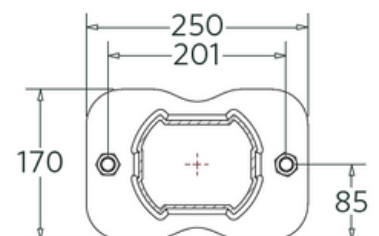
### Base dimensions

- Base plate: 400 x 400mm
- Fixing hole spacing: 300 x 300mm centre to centre
- Fixing hole diameter: 18mm



### Top plate dimensions

- Plate length: 250mm
- Plate width: 170mm
- Fixing hole spacing: 201mm centre to centre



## MOUNTING OPTIONS

### AP127.50 Concrete mount anchor kit

- Suited for rope access or fall arrest
- Rated to 15kN fall arrest / 18kN rope access
- No adaptor plate required



### SL210M Static line intermediate kit

- Static line system intermediate kit
- Rated to 15kN fall arrest
- No adaptor plate required



### SL224M Static line corner kit

- Static line system corner kit
- Rated to 18kN fall arrest
- Adaptor plate required



### SL201M Static line end stanchion kit

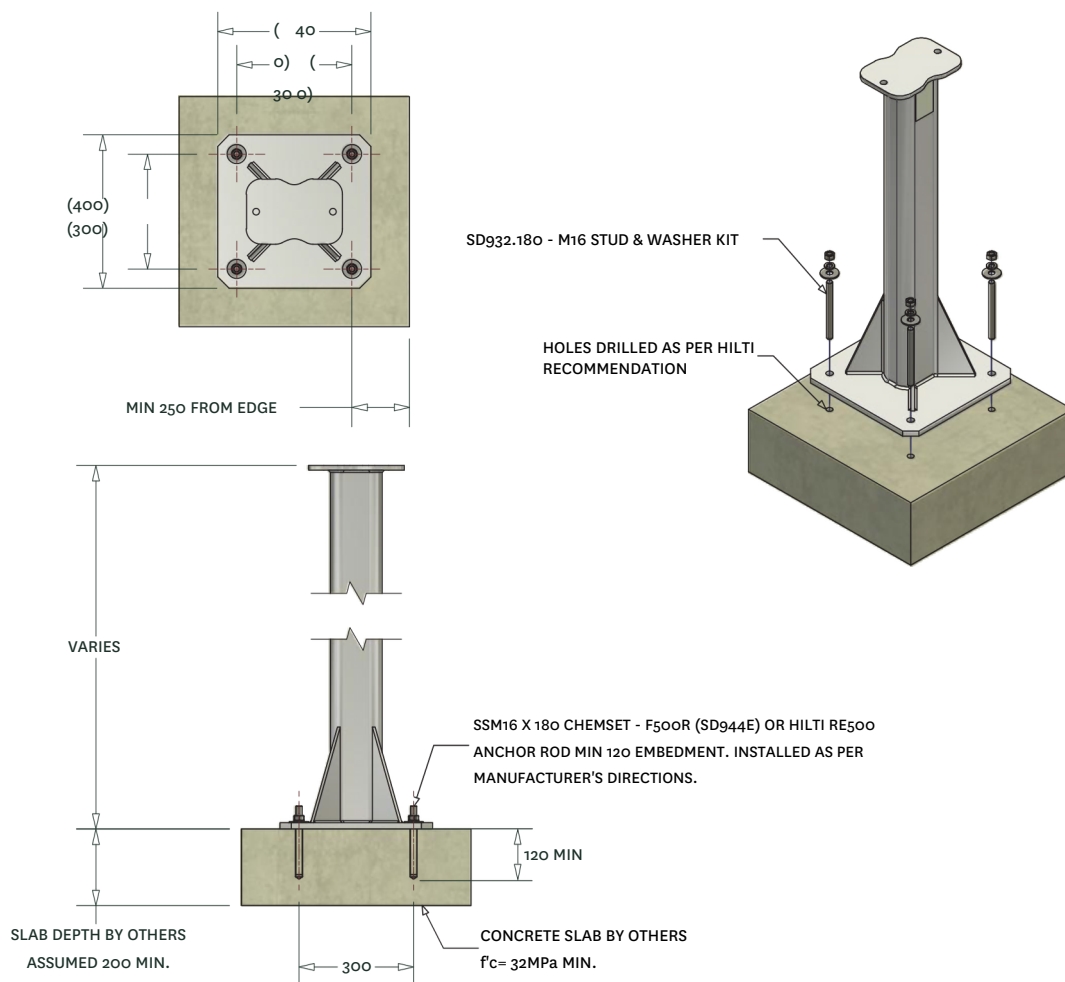
- Static line system end stanchion
- Rated to 18kN fall arrest
- Adaptor plate required



## FIXING DETAILS

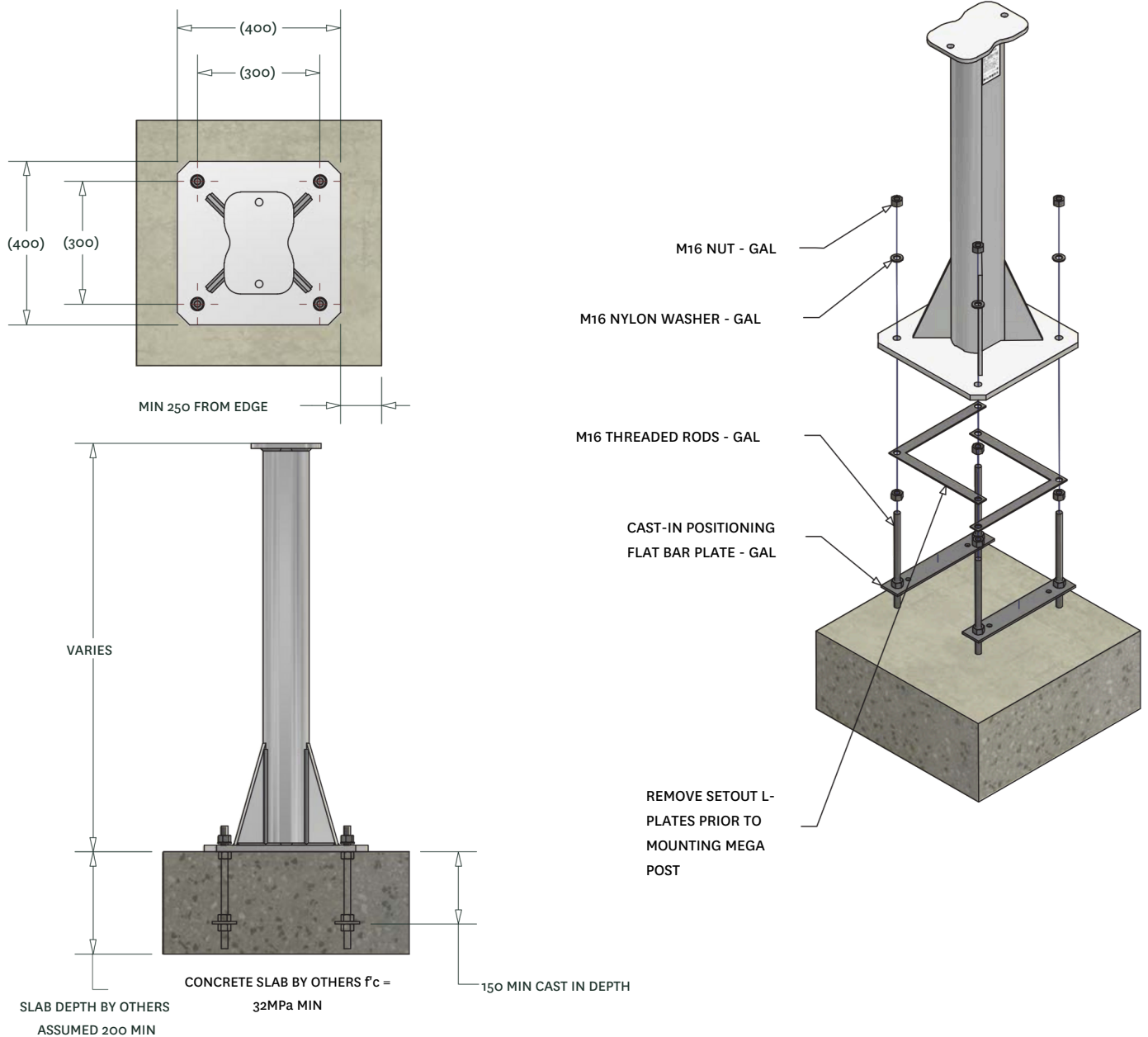
### Concrete mount: epoxy adhesive fixing

- The structural mount mega post must only be attached to an engineered structural support such as concrete or steel.
- Epoxy adhesive anchor requires minimum 120mm embedment into concrete.
- Recommended epoxy adhesive: Extreme strength SD944E (EF500R+).
- M16 nuts to be torqued to 60 - 80Nm.
- Load testing required every 12 months.
- If the post is submerged in a garden bed, the post and the fixings must be painted with waterproof bitumen paint.
- Where access to the fixings for pull testing is difficult, it is recommended that the cast-in fixing method is used where possible



### Concrete mount: cast-in

- The structural mount mega post must only be attached to an engineered concrete structure.
- Cast-in method recommended if post submerged in garden bed and fixing not easily accessible for testing.
- AP160 cast-in cage bolt kit requires 200mm minimum slab thickness.
- M16 nuts to be torqued to 60 - 80Nm.
- No load testing of the cage bolt fixing required after installation or during recertification.
- If the post is submerged in soil, the post and the fixings must be painted with waterproof bitumen paint.





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## TECHNICAL SPECIFICATION

### Structural mount mega post AP150

Structural mount mega posts are for use in situations where a fall arrest or rope access system needs to be raised above garden beds, or to reduce fall distance.

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#### Materials

- Post: high-grade aluminium
- Adaptor plate: stainless steel

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#### Dimensions

- Height options: 400, 600, 800 and 1000mm
- Base plate: 400 x 400mm (anchor fastener spacing 300mm)

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#### Weight

13kg (AP150.1000)  
SD944E (EF500R+)

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#### Fixings (refer to installation manual)

Epoxy adhesive

- Stainless steel HDG all-thread x 180mm
- 18mm hole, minimum 120mm embedment into concrete
- Recommended epoxy adhesive: extreme strength

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#### Concrete cast-in

- AP160 300 x 300mm cast-in cage
- Minimum concrete thickness: 200mm
- Minimum embedment: 150mm

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#### Substructure requirements

- Support structure integrity, suitability and fixing method to be assessed and determined by an engineer unless it is clear to a competent person prior to installation
- Concrete cast-in minimum concrete thickness: 200mm

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#### Rating

- Rope access: 18kN (two persons including rescue)
- Fall arrest: 15kN (including rescue)
- Static line end stanchion, corners and intermediates: 18kN/12kN (ultimate load 18kN)

### Compliance

The AP150 Mega post structural mount anchor is designed and manufactured to conform to requirements of Australian and New Zealand Standards AS/NZS 1891, AS/NZS 5532, AS/NZS ISO 22846, and relevant statutory WHS Codes of Practice/Guidelines.

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#### Testing

Testing and performance based on requirements of Australian & New Zealand Standard AS/NZS 5532:2013 and AS/NZS 1891

- Dynamic load tested: 18kN
- Static load tested: 18kN

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#### Product warranty

10 Years from date of purchase subject to correct installation. Use and maintenance to be in accordance with manufacturer's specifications and recommendations. (This excludes wearing parts).

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#### Inspection and maintenance

Inspection and certification required every 12 months by competent person in accordance with manufacturer's specifications and requirements of Australian and New Zealand Standards AS/NZS 1891 and AS/NZS 5532. (Refer installation manual)

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#### Important note

Failure to supply and/or install proprietary product in accordance with above standards and codes, specifications and instructions voids complete system certification and/or warranty

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## WARRANTY INFORMATION

Warranty period on this system: 10 years from date of purchase

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### Should you have a warranty claim as a result of a defect the following procedure must be followed:

Identify the following information:

- The product/system name and code number
- The date of purchase/installation
- Installation company details
- The installation identification number
- The name of the company using this system
- A description of the defect/warranty claim
- The periodic system maintenance report

Forward the above information to [design@altasafety.com](mailto:design@altasafety.com) or contact technical helpline, 0800 115 396.

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### Terms and conditions

All warranty claims must be made in writing within 14 days of the appearance of the defect.

Incorrect installation or work done by a non-accredited Alta installer will void all warranty rights.

Systems that have been installed using non proprietary equipment will void all warranties.

System roof/cladding and concrete penetration seals are not covered in this warranty.

Systems/components that have not been maintained in accordance with manufacturer's/legislative requirements will void warranty.

Systems used by incompetent persons or use with non compatible accessories ie. harness gear, lanyards, travellers, fall arrestors etc. will void warranty.

Systems/components used for purposes other than their intended use will void warranty.

General wear and tear is expected and will depend on the frequency of use and is not covered by warranty.

# Alta Safety

NEW ZEALAND OFFICES

**ALTA  
SAFETY** FALL  
PROTECTION  
SPECIALISTS

## CHRISTCHURCH

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[design@altasafety.com](mailto:design@altasafety.com)



## TECHNICAL DRAWINGS KEY



Rate to  
15kN



Person  
Capacity



Abseil



Fall Arrest



Restraint  
Technique