

OPERATION MANUAL

TOP MOUNT ANCHOR

AP130



Top mount anchors for maintenance personnel working at heights utilising a harness and fall protection system.



Product brochure
Top mount anchor



Installation manual
Top mount anchor



Operations manual
Top mount anchor

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kattsafe.com.au

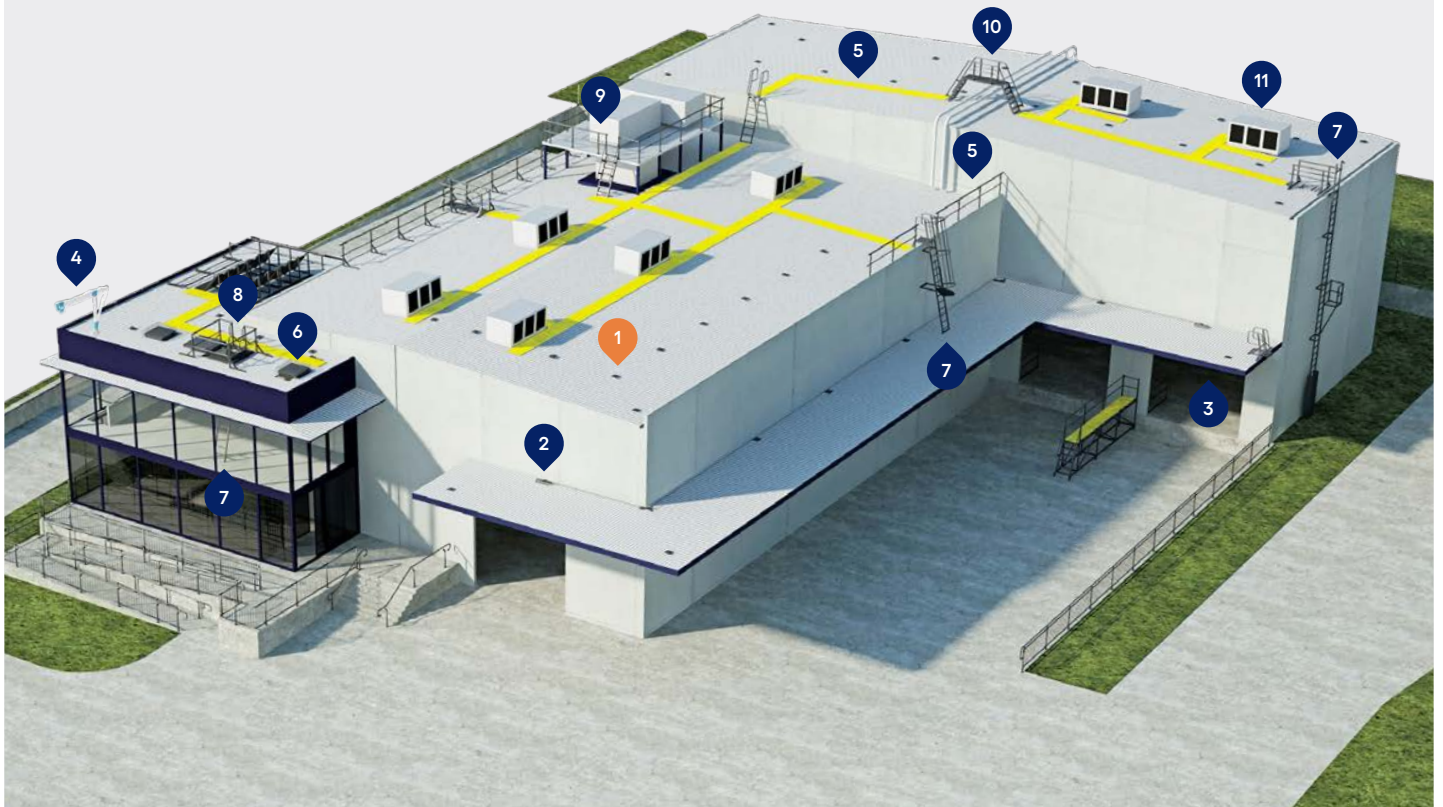
Commercial building height access and fall protection requirements

Kattsafe leads the industry in the design, installation and management of access and fall protection safety systems.

The in-action model demonstrates access and fall protection requirements for a commercial building design. Kattsafe recommendations fulfill current workplace requirements for the safety of building maintenance subcontractors, employees and the general public.

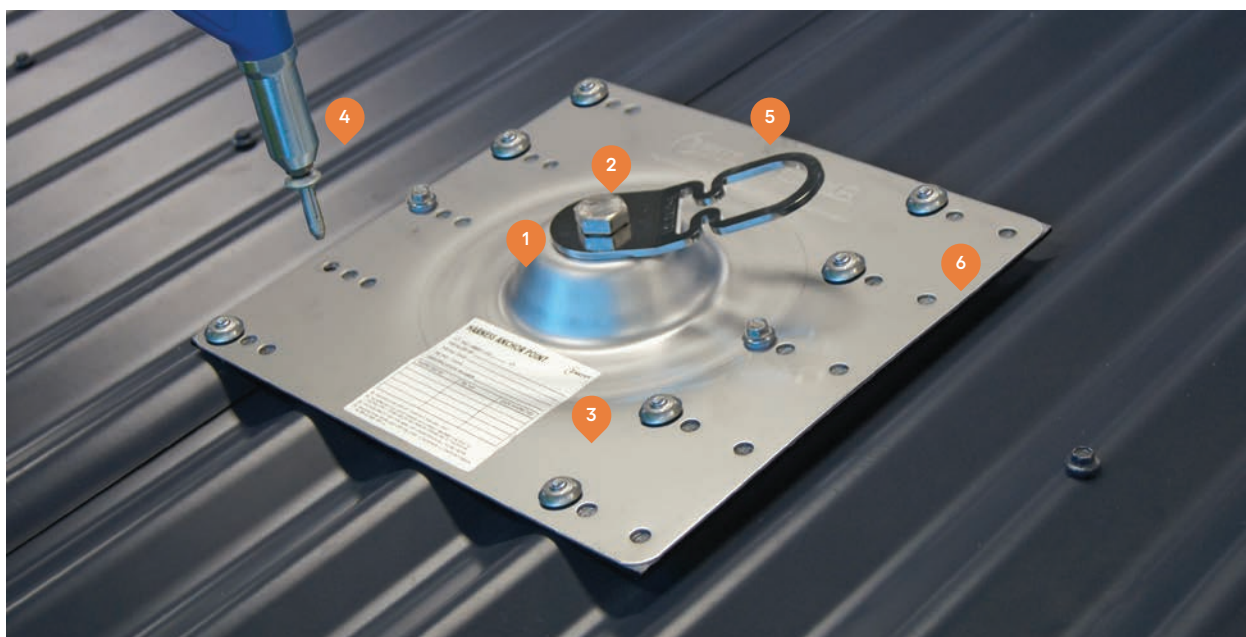
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- 1 Anchor points
- 2 Static lines
- 3 Rigid rail
- 4 Davits and needles
- 5 Guardrail and walkway
- 6 Skylight protectors
- 7 Rung ladders
- 8 Access hatches
- 9 Platforms and stairs
- 10 Step ladders
- 11 HVAC platforms



TOP MOUNT ANCHOR

Top mount fall arrest anchor designed for simple, quick installation and load dissipation and absorption.



1 Profiled dome

Ensures no interference with roof deck rib, and allows free rotation of the swivelling eyelet.



2 Swivel eyelet

Ensures unlimited user area and no snap hook roll-out, with a large connection eye for easy attachment.



3 Universal stainless steel plate

Robust stainless plate is suited for harsh environments, and multiple fixing locations allow for installation to various roof decks.



4 Screw and rivet fixing

Options to fix anchor to the roof deck using high-strength screws and rivets, reducing install time.



5 Energy absorbing eyelet

Absorbs energy when a fall occurs, reducing the load on the operator and roof structure.



6 Lightweight

Only weighting 1.5kg. It's easy to handle and operate without providing extra load on the roof.

OPERATION REQUIREMENTS

Must be read prior to use

1. Prior to use, ensure all operating procedures have been read and properly understood.
2. This fall arrest system is only to be used by competent persons who have experience and training in the safe use of the system and associated equipment.
3. Ensure all workplace WHS requirements are identified and understood. A risk assessment with a safe work method procedure must be completed and approved by management prior to work commencing.
4. This system requires periodic inspection and maintenance by a qualified height safety inspector. The system **MUST NOT** be used if the service date is overdue.
5. A rescue plan must be formulated and ready for implementation prior to using any fall arrest system.
6. Authorisation to access any risk area must be obtained from the person in control of the workplace.
7. Only approved full body harness, gear and equipment with an energy absorber certified to Australian and New Zealand Standard AS/NZS 1891 is to be used with this system.
8. Visually inspect the system for damage prior to use. The system must not be used if there is any deterioration or deformation of components or the structure to which the system is attached.
9. If the safety system is damaged or has arrested a fall, discontinue use until it has been fully inspected and recertified by a competent height safety equipment inspector.
10. Ensure all fixings, fittings and components are securely attached. Any tightening, adjustment or replacement of components must be carried out by a competent height safety inspector.
11. Persons must not be allowed to work alone in fall arrest situations in case emergency rescue assistance or first aid is required.
12. All applicable Australian Standards, WHS Acts & Regulations, and Codes of Practice & Guidelines must be read and obeyed when using this safety system.
13. The reading of this operation manual does not replace the need for completing a recognised height safety training course by a Registered Training Organisation (RTO).



Failure to follow all warnings, operation and maintenance instructions may result in serious injury or death.

SYSTEM LIMITATIONS

Must be read prior to use

1. Minimum structural requirements for attachment of top mount anchors:
 - Steel purlin 150 x 2mm base metal thickness
 - Timber truss 70 x 35 F7 structural grade
 - Metal roof deck 0.42mm base metal thickness
2. The top mount anchor is suitable for single (1) person use and rescue in the case of a fall incident. (15kN)
3. Only to be used by competent persons with proof of training by a Registered Training Organisation (RTO) in the use of height safety and fall protection systems.
4. Harness gear is susceptible to deterioration when exposed to chemicals or hazardous environments and must be approved by the manufacturer for use in these applications.
5. This system, under normal use and environment, has a life expectancy of up to 10 years. A manufacturer's assessment and certification to confirm suitability for an additional 5 years use is recommended. This will depend on location, usage and scheduled maintenance as per manufacturer and legislative requirements.
6. Operators of this system must be connected via a lanyard with a personal energy absorber, in accordance to Australian Standard AS/NZS 1891.1.
7. Where slopes exceed 40°, the top mount anchor must not be used as the energy absorbing eyelet may deform under constant load. The AP141 rope access anchor is recommended for this application using a work positioning system with a safety rope line.
8. Do not exceed maximum number of users/persons per system. See specific system data plate for user configuration.
9. Do not tamper with or make alterations to system components without manufacturer's consent.
10. This system is not to be used for tethering or lifting machinery or equipment.
11. The safety system must be recertified by a competent height safety inspector as recommended:
 - Non corrosive/mild environment – 12 monthly
 - Corrosive/harsh environment – 6 monthly (more frequent inspection may be required)



Kattsafe recommends that persons using fall arrest systems do not work alone in case of an emergency and help is required.

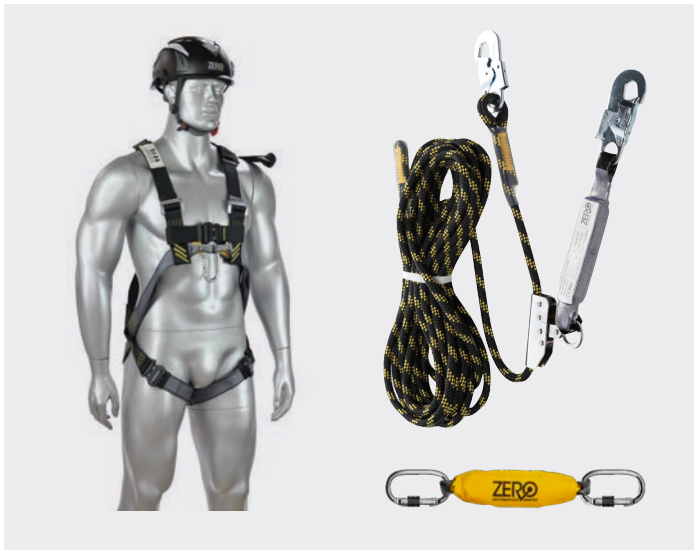
Should any part of the system/equipment have been subjected to abnormal loading, use must be discontinued until replaced/recertified by a competent height safety inspector.

SAFE USE PROCEDURE

Step 1

Ensure a full body harness and suitable rope line lanyard is used with this system.

⚠️ Harness gear must be certified to Australian Standards AS/NZ 1981.1:2009 and must be used with a tear-web energy absorbing lanyard connected to fall arrest point of harness. Ensure harness gear servcability dates are current.



Step 2

Approach anchorage system from a 'safe zone' ie. no risk of fall.



Step 3

Inspect anchorage device for any damage or deterioration and check the device has been serviced and recertified.

⚠️ Do not use if current date exceeds due service date.



Step 4

Attach rope line lanyard to anchorage device and adjust rope line length evenly in the shortest distance to the fall edge.

⚠️ Ensure there is NO slack in the rope line.



SAFE USE PROCEDURE

Step 5

Ensure there is NO possibility of a pendulum fall from the fall edge.

- ⚠ User must remain in restraint at all times. Limit access beyond the fall edge by correctly adjusting the rope line adjuster and do not allow slack in rope line.



Step 2

Use diversion anchors to access corners or possible pendulum areas. Attach rope line to diversion anchorage using a carabiner.



Step 3

Harness equipment must be stored in protective carry bag provided and kept in a dry environment.

- ⚠ Any damage to harness gear or anchorage system during use MUST be reported to the workplace manager and removed or tagged 'Out of Service' until by competent height safety inspector.



Step 4

Proceed safely back to roof access point.

- ⚠ Follow the company reporting procedure on completion.



ROPE LINE LAYOUT

Correct rope line length

Rope line length must limit access beyond the fall edge.



Incorrect rope line length

Slack rope line between user and anchor will result in a fall and could cause severe injury or death.



SYSTEM MAINTENANCE

Must be read prior to checklist

1. The anchor system needs to be checked and recertified by a competent height safety inspector every 12 months for non corrosive environments or 6 monthly for corrosive or harsh environments. (To be determined by competent person depending on severity of surrounding conditions.)
2. Never clean using acids or other chemicals that could damage the system components.
3. The energy absorbing eyelet is subject to wear depending on frequency of usage. Any signs of excessive wear will require the anchor to be replaced.
4. The identification label must be completed confirming certification, maintenance and recertification of the system.
5. Harness gear and equipment must be maintained and stored in a dry, protected area, away from acids and ultra violet rays which cause material fibres to break down and reduce their safety and life expectancy.
6. Any deterioration or damage to the system or equipment must be reported to person in control of the workplace and relevant corrective action undertaken.
7. Maintenance inspections must be clearly documented. Any non-conformance must be clearly identified and tagged 'Do Not Use' until corrective action by a competent person has been completed.

MAINTENANCE CHECKLIST

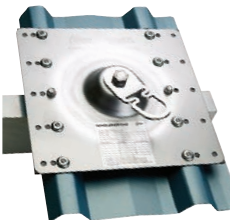



The checklist below outlines key checking criteria required to ensure the safe use of this system. Any item of concern not shown on the checklist must be noted on the maintenance report and brought to the attention of the workplace manager.

Items ticked PASS - YES means they conform with the required checking criteria and are suitable for normal use until the next recertification date. System data plates must be updated showing current check date and next check date.

Item ticked PASS - NO means they do not conform to the required checking criteria. These items must be clearly tagged 'Do Not Use' and the required corrective actions put in place. The maintenance report must clearly document all non-conforming criteria.



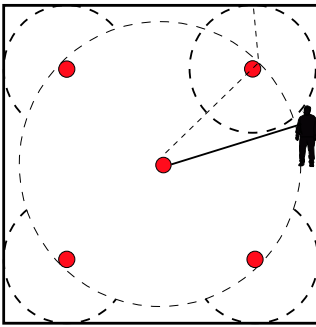
This system must be maintained by a competent height safety inspector trained in the safe use and maintenance of this system.

Component	Inspection criteria	Pass Y/N	Corrective action	Completion date
Fixings 	Fixings to structure secure (min. 2 fixings to purlin, 8 fixings to roof deck).			
	Screws into structure must be verified by removing and checking if uncertain.			
	Fixings to roof deck structure secure.			
	No evidence of penetration seal deterioration.			
Eyelet 	Ensure eyelet fixing connection to plate is secure, max 5mm play between eyelet and plate.			
	No evidence of eyelet damage or deformation.			
	Ensure eyelet rotates freely.			
Data label 	Data label attached and clearly visible.			
	All relevant data filled out including last maintenance date.			
Roof deck 	Roof deck quality in good condition i.e. no visible rust or roof deterioration.			

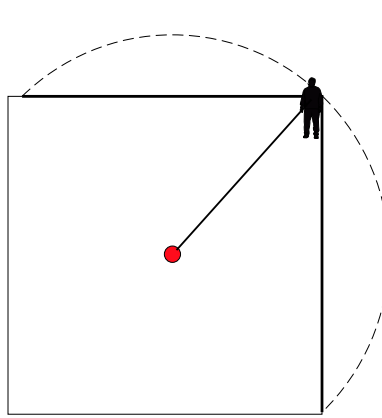
ANCHOR POSITIONING



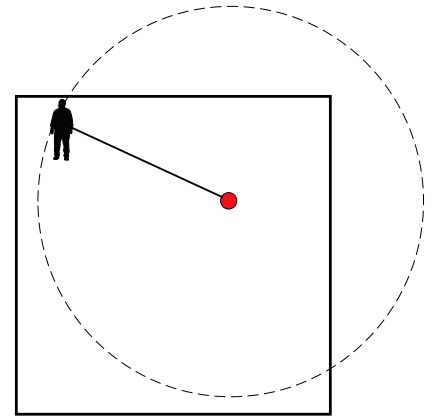
Correct anchor positioning and rope length is critical to avoid pendulum effect.



✓ Correct anchor positioning and rope line length

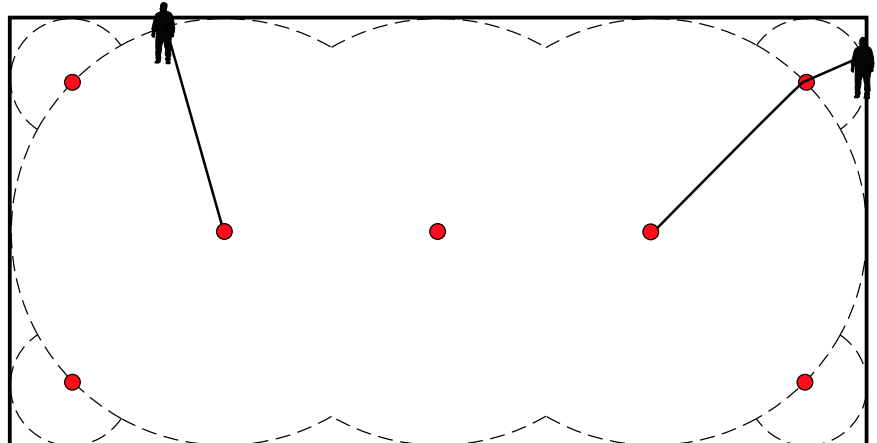


✗ Incorrect rope line length, operator could pendulum fall off roof

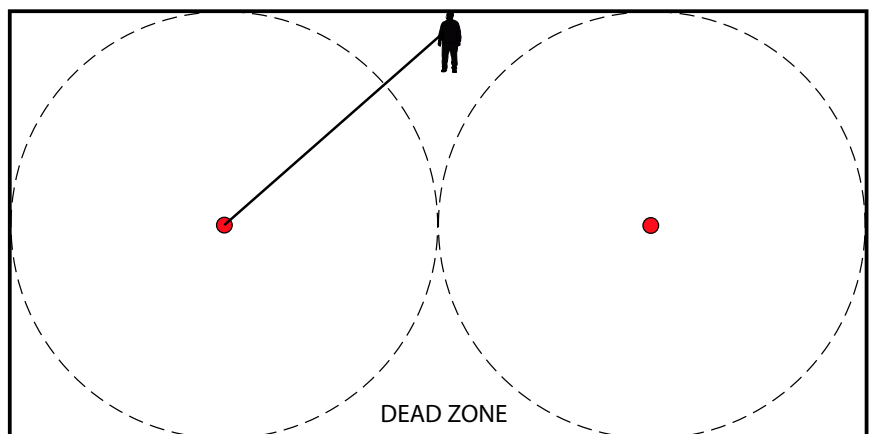


✗ Incorrect anchor layout allows dangerous pendulum fall off roof

✓ Correct anchor layout and rope line length with anti-pendulum corner anchorages



✗ Insufficient anchorages cause large dead zones requiring extended lanyard length which allows dangerous pendulum fall possibilities



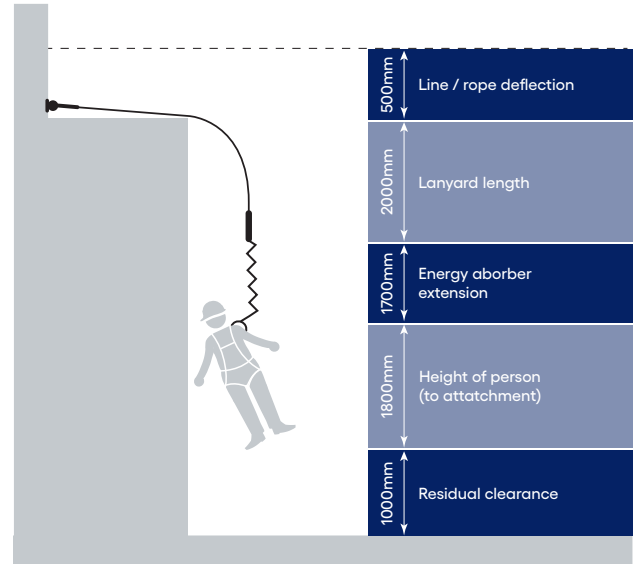
TECHNICAL INFORMATION

Fall clearance

There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or another lower level hazard. The clearance required is dependent on the following factors:

- Elevation of anchorage
- Anchorage deflection
- Lanyard length
- Lanyard elongation on deceleration pull out (personal energy absorber)
- Operator height
- Fall distance residual clearance

See AS/NZS 1891.4:2009 Section 7 for a detailed explanation.



System requirements

The worker must wear a full body harness when connected to any fall arrest system including a personal energy absorber compliant with AS/NZS 1891.2:2001 and AS/NZS 1891.4:2009 limiting the force on the anchor and operator to a maximum of 6kN.

Harness connectors must support at least 15kN. Non-compatible connectors may unintentionally disengage (roll-out). Carabiners supplied with proprietary systems must not be removed or substituted with any other component.

Inspection and Maintenance

Inspection and recertification of fall arrest systems and equipment is required at least every 12 months by competent person in accordance with manufacturer's specifications and requirements of Australian Standard AS/NZS1891.4:2009 Section (9).

Important note

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

TECHNICAL SPECIFICATION

Top mount anchor

AP130

The top mount anchor incorporates an energy absorbing swivel eye attachment point connected to the profiled stainless steel base plate, to prevent snap hook roll-out. System design, supply, layout, installation and certification by a Kattsafe approved installer, as per the manufacturer's installation instructions and current standards.

Materials

- Base plate: profile stainless steel
- Swivel eye: profiled stainless steel

Dimensions

- Total height: 50mm (includes eyelet)
- Overall size: 290 x 285mm

Weight

1.05kg

Fixings (refer to installation manual)

- Timber purlin fixing: 14g x 75mm type 17 tek screws
- Metal purlin fixing: 14g x 75mm self-drilling tek screws
- Metal roof deck fixing: 8mm structural bulb type rivets

Rating

- Fall arrest use: 15kN
- User weight limit: 120kg (user and equipment)
- Can be used as a rope access anchorage in the event of an emergency rescue only.

Compliance

The top mount anchor is designed and manufactured to conform to requirements of Australian and New Zealand Standard AS/NZS 5532:2013 and relevant statutory WHS Codes of Practice/Guidelines.

Testing

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

- Dynamic load tested: 15kN
- Static load tested: 15kN

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).

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 Standard AS/NZS 1891.4:2009 Section 9 (refer installation manual).

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.

WARRANTY INFORMATION

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

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 sales@kattsafe.com.au or contact technical helpline, 1300 301 755.

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 Kattsafe system 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.



Product brochure
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Installation manual
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QMS Certification
ISO 9001:2015

Find all related products and resources on our website.
kattsafe.com.au

Kattsafe

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and fall protection

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