



**OPERATION MANUAL**

# VERTICAL FALL ARRESTER

SL228



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# Arrester for personnel accessing heights using a harness and fall arrest ladder protection system.



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**Product brochure**  
Rung ladders



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**Installation manual**  
Vertical fall arrester



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**Operation manual**  
Vertical fall arrester

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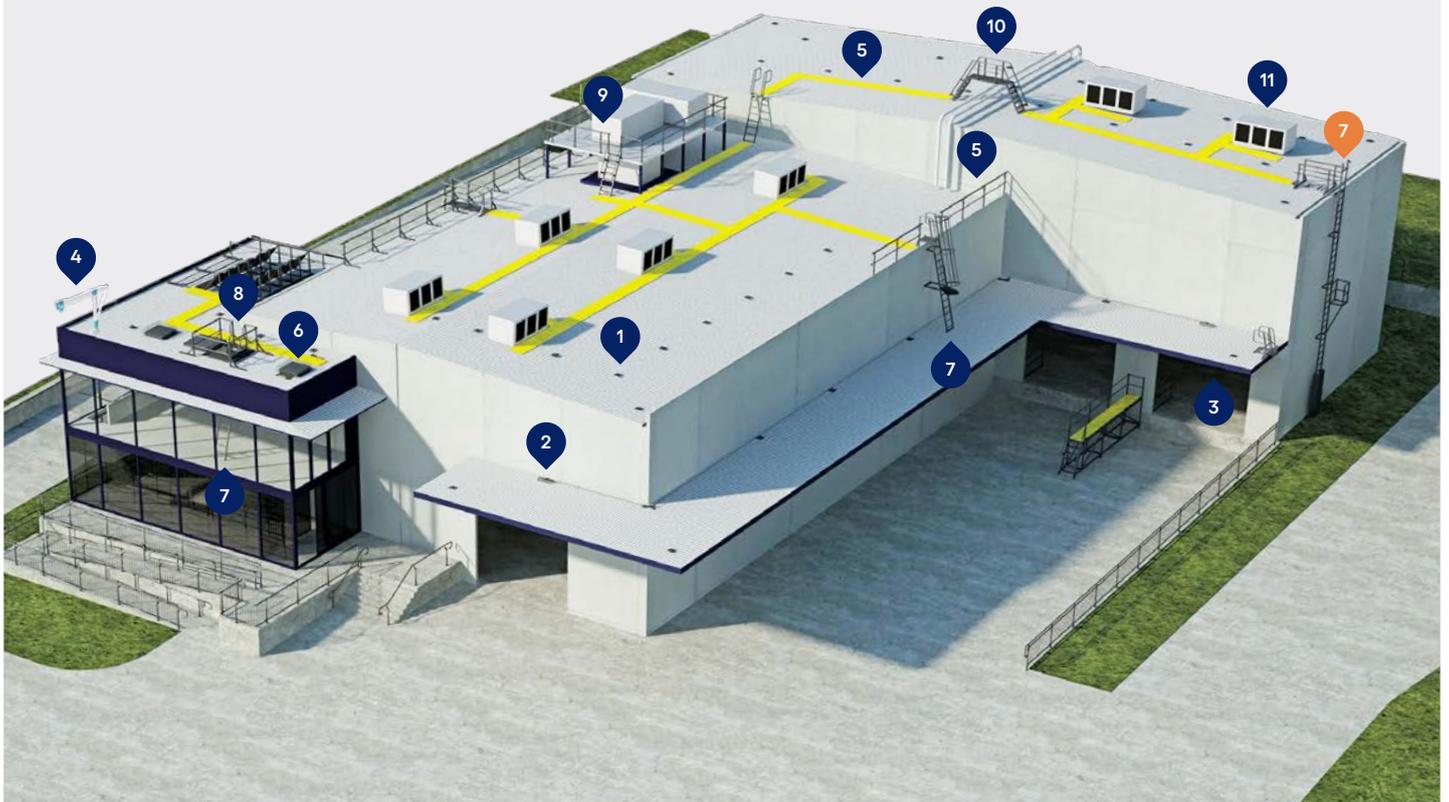
## Commercial building height access and fall protection requirements

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.

For more information please contact Kattsafe.  
[kattsafe.com.au](http://kattsafe.com.au)

- 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



# OPERATION REQUIREMENTS

## Must be read prior to use

1. Prior to use, ensure all operating procedures have been read and 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 devised and be ready to be implemented prior to usage of a 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 energy absorber certified to Australian and New Zealand Standard AS/NZS 1891, to be used with this system.
8. Visually inspect the system for damage prior to use. System must not be used if there is any deterioration or deformation of any components or 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 and 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. This operation manual does not in any way, replace the need for completion of 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. Vertical fall arrest systems and vertical ladders require persons who are competent and trained in the safe use of the system. It is the responsibility person in control of the business or undertaking to ensure that they comply with state work, health and safety regulations and that they have assessed the hierarchy of risk control measures and alternative systems cannot be used.
2. The vertical fall arrester is designed for single person use only rated to maximum user weight - 140kg. (Person and carry tools).
3. Fall arrest equipment is susceptible to deterioration when exposed to chemicals or hazardous environments and must be approved by the manufacturer for use in these applications.
4. 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.
5. The structural requirements for the ladder to which the vertical fall arrester is connected to must be able to withstand the loads applied in the event of a fall which is 12kN (see fixing requirements recommendation).
6. The vertical fall arrester is designed for vertical climbing systems only to ensure correct operation of the fall arrest device. The fall arrest line system must not exceed 10° off vertical.
7. Only the approved SL228 vertical line fall arrester with energy absorber shall be used with this system. An in-line energy absorber must be installed for any system that does not include an energy absorber built in with the fall device.
8. All ladders fitted with a fall arrest system require a security cover or lockable access door or device to prevent unauthorised use of the ladder.
9. The vertical line fall arrester is not designed for use on portable ladders or structures.
10. Do not tamper with or make alterations to system components without manufacturer's consent.
11. This system is not to be used for tethering or lifting machinery or equipment.
12. The vertical line fall arrester must be recertified by a competent height safety inspector as recommended:
  - Non-corrosive/mild environment – 12 monthly
  - Corrosive/ harsh environments - 6 monthly (more frequently 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.

⚠️ Shuttle must be used with a tear-web energy absorbing lanyard connected to fall arrest front loops harness.



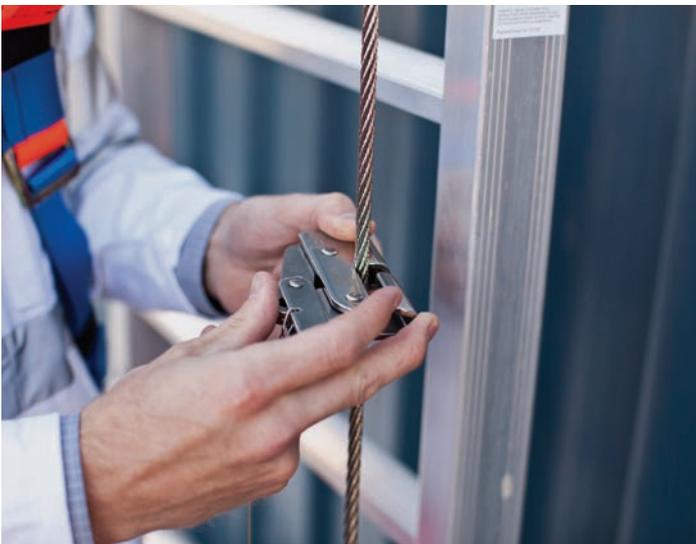
## Step 2

Remove carabiner from shuttle unit and push shuttle cam to the upward limit.



## Step 3

Turn shuttle onto its side and insert cable into horizontal port.



## Step 4

Return shuttle to vertical position which will locate shuttle onto cable.

⚠️ Ensure indicator arrow on shuttle is pointing upwards.



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**Step 5**

Lock shuttle onto line by inserting carabiner. Ensure carabiner screw gate is locked.



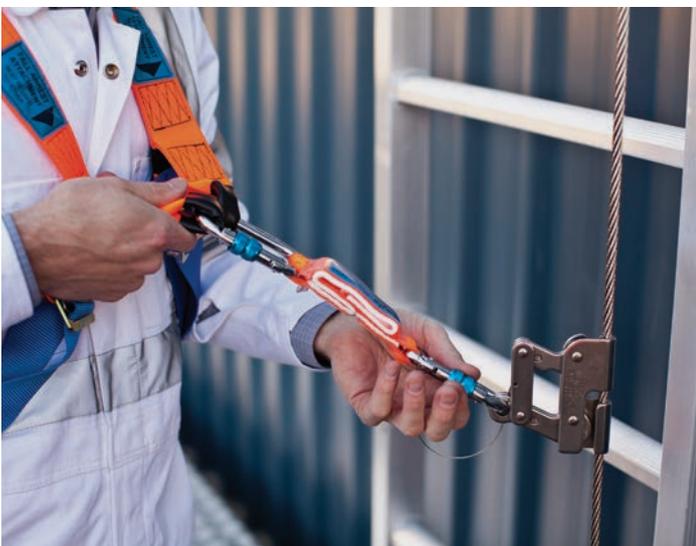
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**Step 6**

Attach energy absorber from shuttle onto front loops of harness. Ensure carabiner screw gate is locked.

**Step 7**

Check the shuttle is functioning correctly and all carabiner screw gates are secure.

**Step 8**

Climb ladder using care at all times.



### Step 9

When safely at the top of the ladder only detach from the shuttle once safely behind the ladder safety bar and there is no risk of a fall.



### Step 10

- When descending the ladder, keep body close to the ladder allowing shuttle to descend freely.
- If shuttle locks whilst descending, release unit by lifting the cam and lowering the shuttle.



### Step 11

Remove the shuttle unit from the cable on completion by reversing the process, steps 2 to 6.

 Any damage to harness gear or static line system during use **MUST** be reported to the workplace manager and removed or tagged out of service until recertified by a competent height safety inspector.



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# SYSTEM MAINTENANCE

Ensure system is maintained to the below requirements

1. This 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 cam pivot points on the vertical fall arrester should be lubricated using a dry graphite lubricant, NOT oil which will attract dirt.
4. The stainless steel cable must be cleaned and then coated with a dry graphite lubricant.
5. The identification/certification label must be completed confirming maintenance and recertification of the system.
6. 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.
7. Any deterioration or damage to the system or equipment must be reported to the person in control of the workplace and relevant corrective action undertaken.
8. 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.



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

# 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
	Must be no deterioration of ladder fixing bracket integrity to support structure and ladder fixing.			
	Must be no visible deterioration or damage to ladder.			
	Must be no deformation of vertical static line stile extension or evidence of excessive load.			
	Must be no evidence of stress in static line vertical attachment bracket or deterioration of connection to ladder.			
	Must be no evidence of slippage or deterioration of cable connection to line attachment bracket (top and lower connection). <b>Warning: crimp or roll swage terminal must be connected at the top of the ladder and the tensioner with locking screw at the base.</b>			
	Must be no evidence of wear, cuts, corrosion or fraying of cable.			
	Must be no evidence of system shuttle wear, distortion, malfunction or energy absorber deployment.			
	Cable must be tensioned correctly and free from dirt and grime.			
	All ladder fixings must be sufficiently tensioned.			

# TECHNICAL SPECIFICATION

## Vertical fall arrester

### SL228

The vertical fall arrester for safe access up vertical ladders for maintenance personnel. System design, supply, layout, installation and certification by a Kattsafe approved installer, as per the manufacturer's installation instructions and current standards.

#### Materials

- Shuttle: stainless steel (316)
- Energy absorber lanyard: polyester webbing
- Vertical line cable: stainless steel (316)
- Cable end terminations: stainless steel (316)

#### Dimensions

- Shuttle: 100mm (L) 44mm (W)
- Energy absorber: 130mm (static length)
- Vertical line cable: 8mm (7 x 7 strand)

#### Weight

0.90kg (shuttle including energy absorber)

#### Fixings (refer to installation manual)

- Structural steel fixing - M10 bolt set
- Concrete fixing - M10 mechanical concrete anchor
- Metal purlin fixing - 14G tek screw

#### Rating

- 140kg max weight
- 6kN rated - Single person use (in conjunction with energy absorber lanyard device).

#### Compliance

The vertical fall arrester is designed to conform with requirements of Australian and New Zealand Standards AS/NZS 1891.4.2009 and codes of practice and guidelines.

#### Testing

Testing and performance based on requirements of Australian and New Zealand Standard AS/NZS 1891.4:2009.

- Dynamic load tested: 12kN
- Resultant load on structure: 5.85kN

#### Product warranty

3 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 (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.

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# WARRANTY INFORMATION

Warranty period on this system:  
3 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](mailto: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 arresters 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.



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Rung ladders



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**Installation manual**  
Vertical fall arrester



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**Operations manual**  
Vertical fall arrester



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**QMS Certification**  
ISO 9001:2015

Find all related products and resources on our website.  
[kattsafe.com.au](http://kattsafe.com.au)

# Kattsafe

Height access  
and fall protection

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