

OPERATION MANUAL

HARNESSES GEAR



Kattsafe harness gear and equipment for personnel working at heights using a harness and lanyard fall protection system.



Product brochure
Harness gear



Operation manual
Harness gear

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

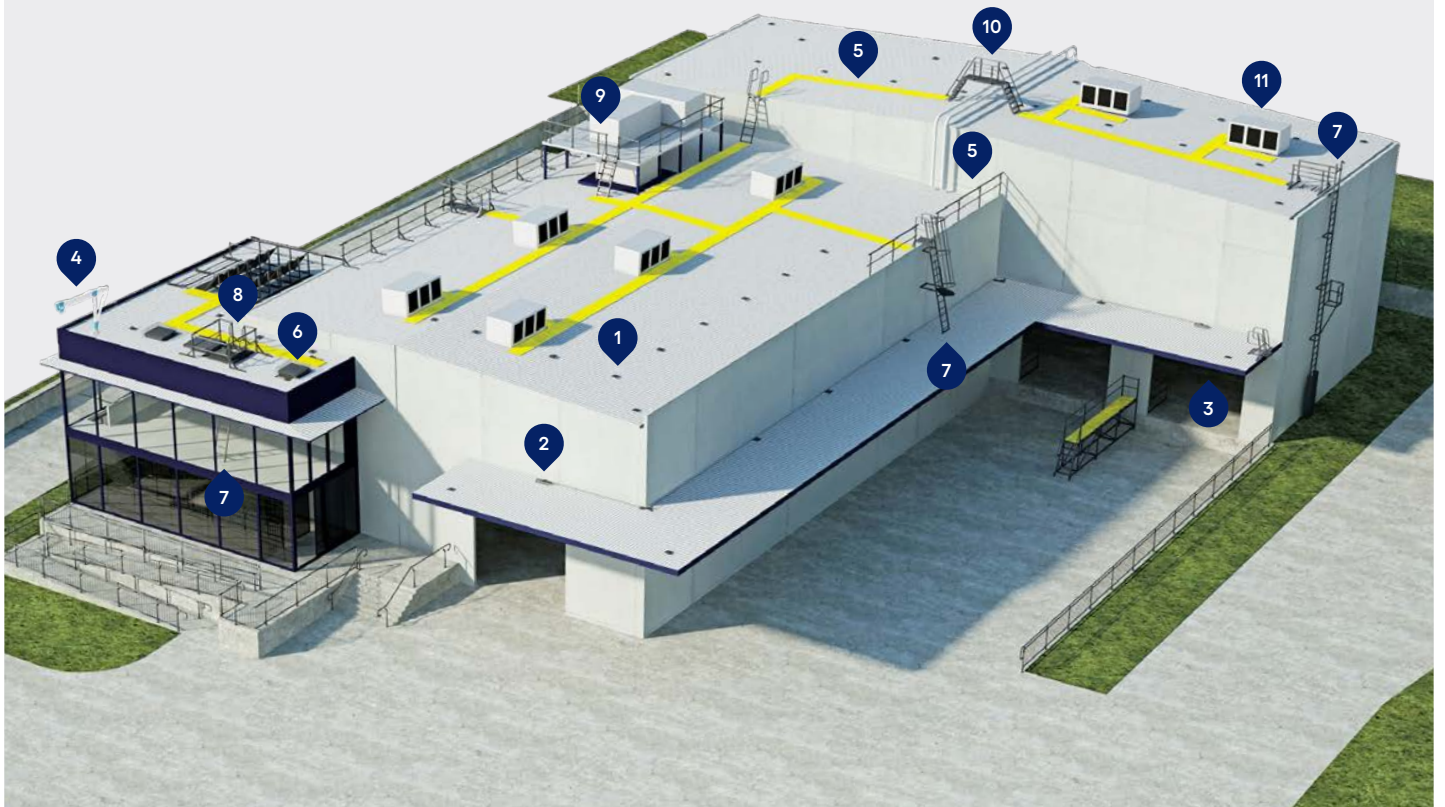
Commercial building height access and fall protection requirements

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.

For more information please contact Kattsafe.
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



HARNESS GEAR

Kattsafe harness gear is fully adjustable and made from premium grade webbing for long-term durability.



1

Suits many applications

Harnesses include various options to suit many applications and requirements.



2

Compliant

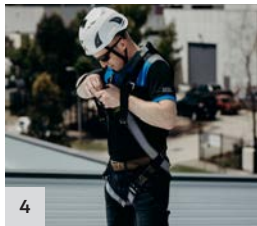
Compliant, safe solutions for workers operating in a fall hazard zone.



3

Energy absorbing

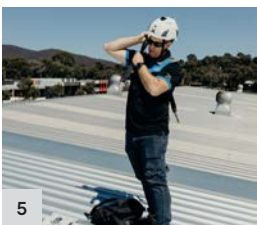
The range of lanyards incorporate energy absorbers, an important factor whenever a fall arrest situation is encountered.



4

Fully adjustable

All straps on the harnesses are fully adjustable, making it easier for use and comfort.



5

User friendly

The ease of operation and comfort ensures ultimate user safety.



HARNESSES CONFIGURATIONS

HR002 Fall arrest harness - standard

General purpose harness with front and back attachment points.



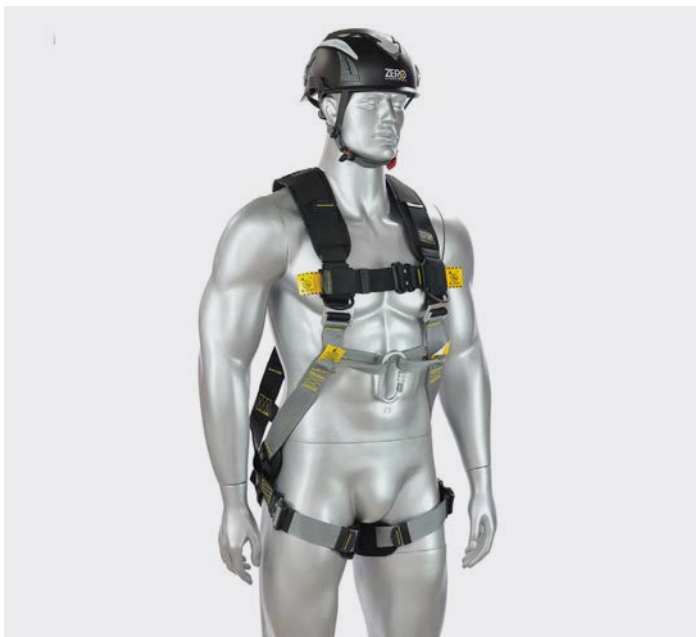
HR003 Fall arrest harness - premium

General purpose harness with front and back attachment points and quick connect buckles.



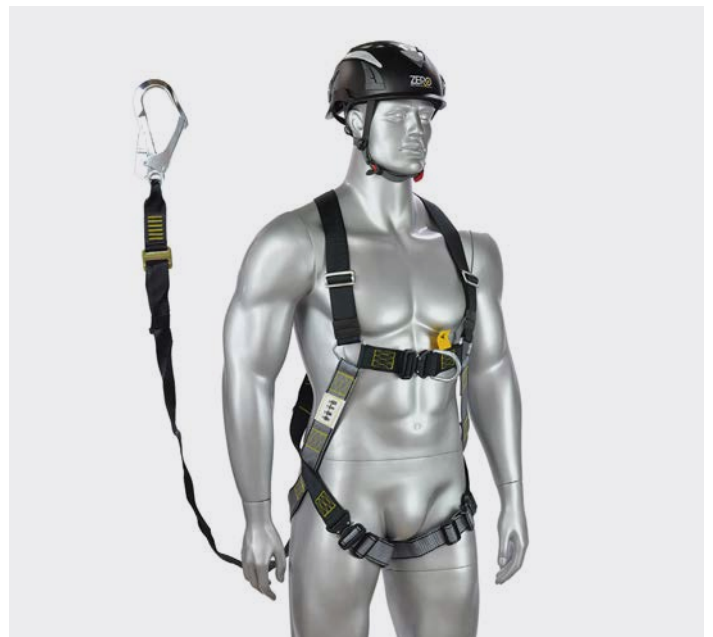
HR004 Fall arrest harness - deluxe

Multi-purpose use harness with front and rear attachment points, breathable rear mesh panel, quick connect buckles and extra wide, padded leg straps.



HR005 Fall arrest harness with 2.0m lanyard

General purpose harness with front and rear D attachment points and energy absorbing lanyard with a snap hook connected to the rear dorsal.



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 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 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.

OPERATION LIMITATIONS

Must be read prior to use

1. 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.
2. 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.
3. Operators of this system must be connected via a lanyard with a personal energy absorber, in accordance to Australian Standard AS/NZS 1891.1.
4. Do not exceed maximum number of users/persons per system. See specific system data plate for user configuration.
5. Do not tamper with system components.
6. This system is not to be used for tethering or lifting machinery or equipment.
7. The harness gear and equipment must be recertified by a competent height safety inspector as recommended:
 - Non corrosive/mild environment – 6 monthly
 - Corrosive/harsh environment – 3 monthly (more frequent inspection may be required)
8. Harness gear and equipment has been tested using a 100kg weighted fall device. Users weights in excess of this will need to be approved prior to use.
9. All harness equipment has a 10 year life span. Do not use if the remove from service date exceeds current date.



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

Locate rear dorsal fall arrest D ring. Ensure harness is hanging freely and webbing isn't twisted. Visually check harness, fittings and labels.

⚠️ Harness gear must be certified to Australian & New Zealand Standards AS/NZS 1891.1:2007

⚠️ Ensure system serviceability dates are current.



Step 2

Place harness over shoulder.



Step 3

Bring harness over other shoulder and clip the chest quick connect buckle.



Step 4

Adjust the chest strap to fit.



Step 5

Identify the front fall arrest loops.



Step 6

See labels. Note that half 'A' requires to match other half of 'A' to create the rated front fall arrest point.



Step 7

Place the carabiner through the front fall arrest loops and tighten the screw gate, to create the rated front fall arrest point.



Step 8

Pull the leg strap up between the legs and connect with buckle.



Step 9

Repeat on other side.



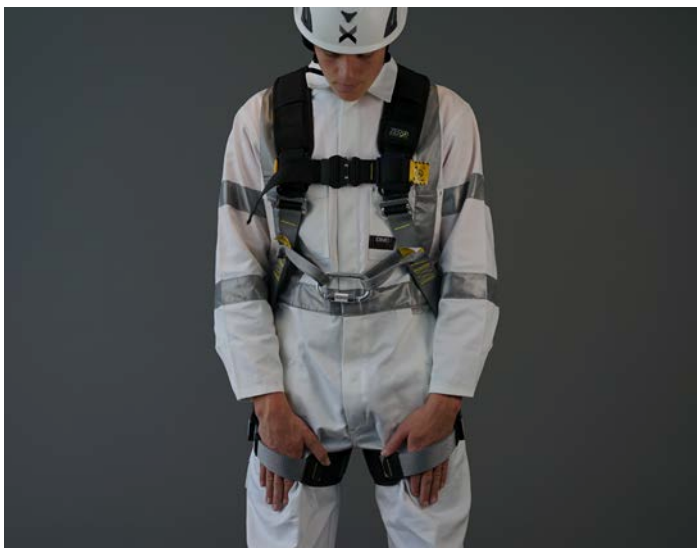
Step 10

Tighten the leg straps to fit, tucking any excess webbing into holders.



Step 11

Correct fit on leg straps should allow a flat hand to be placed behind the leg strap.



Step 12

Correct chest fit should allow a fist to be placed behind the chest strap.



Step 13

Adjust the shoulder webbings so that when the front fall arrest point is lifted, it is level with the sternum.



Step 14

Back fall arrest D ring point should be correctly sitting between the shoulder blades.



Step 15

Check final fit. You should be able to squat comfortably without tension on the body.



ROPELINE LAYOUT

Correct rope line length

Rope line length must be positioned to limit access beyond the fall edge.



Incorrect rope line length

Slack rope line between the user and the anchor will result in a free fall causing severe injury or death.



SYSTEM MAINTENANCE

Must be read prior to checklist


1. Kattsafe harness gear and equipment system needs to be checked and recertified by a competent height safety inspector every 6 months for non corrosive environments or 3 monthly for corrosive or harsh environments. (To be determined by specialist depending on severity of surrounding conditions.)
2. Never clean using acids or other chemicals that could damage the system components.
3. The harness webbing is subject to wear depending on frequency of usage. Any signs of excessive wear will require the harness equipment to be replaced.
4. The identification label showing the manufacturer's name and date of manufacture must be clearly visible.
5. As per Australian Standards AS/NZS 1891.1 harness gear and equipment must be removed from service after 10 years from date of manufacture.
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 person in control of the workplace.
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.




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
	No cuts or tears in webbing.			
	No abrasion damage especially where there is contact with hardware.			
	No excessive stretching of webbing.			
	No damage due to contact with heat, corrosives or solvents.			
	No deterioration due to rotting, mildew or ultraviolet exposure.			
	No distortion of hook or latch.			
	No crack or forging folds.			
	No wear at swivels and latch pivot pin.			
	Free movement of the latch over its full travel.			
	No broken, weak or misplaced latch springs (compare if possible with a new snap hook.)			
	Free from dirt or other obstructions.			
	No cracks, especially at the intersection of the straight and curved portions.			
	No distortion or other physical damage of the D-ring.			
	No excessive corrosion or wearing.			

Component	Inspection criteria	Pass Y/N	Corrective action	Completion date
Buckles & adjusters 	No distortion or other physical damage.			
Sewing 	No broken, cut or worn threads.			
	No damage or weakening of threads due to contact with heat, corrosives, solvents or mildew.			
Ropes 	No cuts, abrasions or fraying.			
	No excessive stretching.			
	No damage due to contact with heat, corrosives, solvents etc.			
	No deterioration due to ultraviolet exposure or mildew.			
Lifespan 	Manufacture date is less than 10 years old. Note: Any harness gear older than 10 years must be tagged "OUT OF ACTION" and discarded			

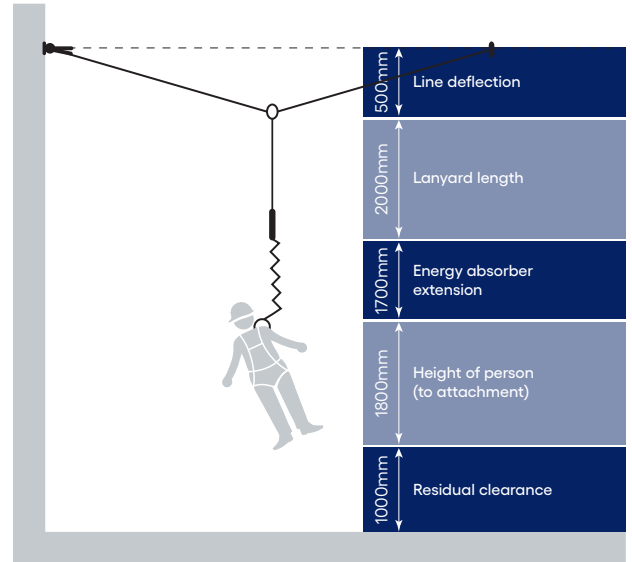
TECHNICAL INFORMATION

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 Australian and New Zealand Standards 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 and New Zealand 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

Harness gear

Kattsafe harness gear and equipment for personell working at heights. System design, supply, layout, installation and certification by a Kattsafe approved installer, as per the manufacturer's installation instructions and current standards.

Materials

- Harness: Polyester webbing
- Ropeline: Nylon, 11mm kernmantle rope
- Energy absorber: Polyester
- Carabiners: Alloy steel

Weight

- Harness: 1.3kg (includes all buckles and D-rings)
- Ropeline: 15m – 2.2kg
- Energy absorber: 0.7kg (includes end carabiners)
- Carabiners: 0.6kg

Working load limit

- All fall arrest harness gear is rated at 100kg and is designed for a maximum free fall of 2000mm. An energy absorber is to be incorporated as a safety factor whenever a fall arrest situation is encountered.
- Harness load rating: 136kg (for use with standard fall arrest lanyard)
- Ropeline load rating: 1 person
- Energy absorber load rating: 200kg commencement deployment load.
- Carabiner load rating: 23kN

Compliance

Kattsafe harness gear and equipment is designed and manufactured in accordance with requirements of Australian Standards AS/NZS 1891.1 and relevant statutory OHS codes of practice guidelines.

Testing

Testing and performance is based on requirements of Australian Standards AS/NZS 1891.1 with NATA certification.

Product warranty

1 year from date of purchase subject to correct use and maintenance in accordance with manufacturer's specifications and recommendations. Lifespan of 10 years from date of manufacture.

Inspection and maintenance

Inspection and certification required every 6 months by a competent height safety equipment inspector in accordance with manufacturers specifications and requirements of Australian standards AS/NZS 1891.1)

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:
1 year 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.



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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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