



OPERATION MANUAL

# FOLD DOWN LADDERS

LD460



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The Kattsafe fold down ladder is designed for ultimate user safety with a pneumatic soft close design for access to ceiling spaces and areas requiring maintenance to plant and equipment.



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**Product brochure**  
Fold down ladders



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**Installation manual**  
Fold down ladders



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**Operation manual**  
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Find all related products and resources on our website  
[kattsafe.com.au](https://kattsafe.com.au)

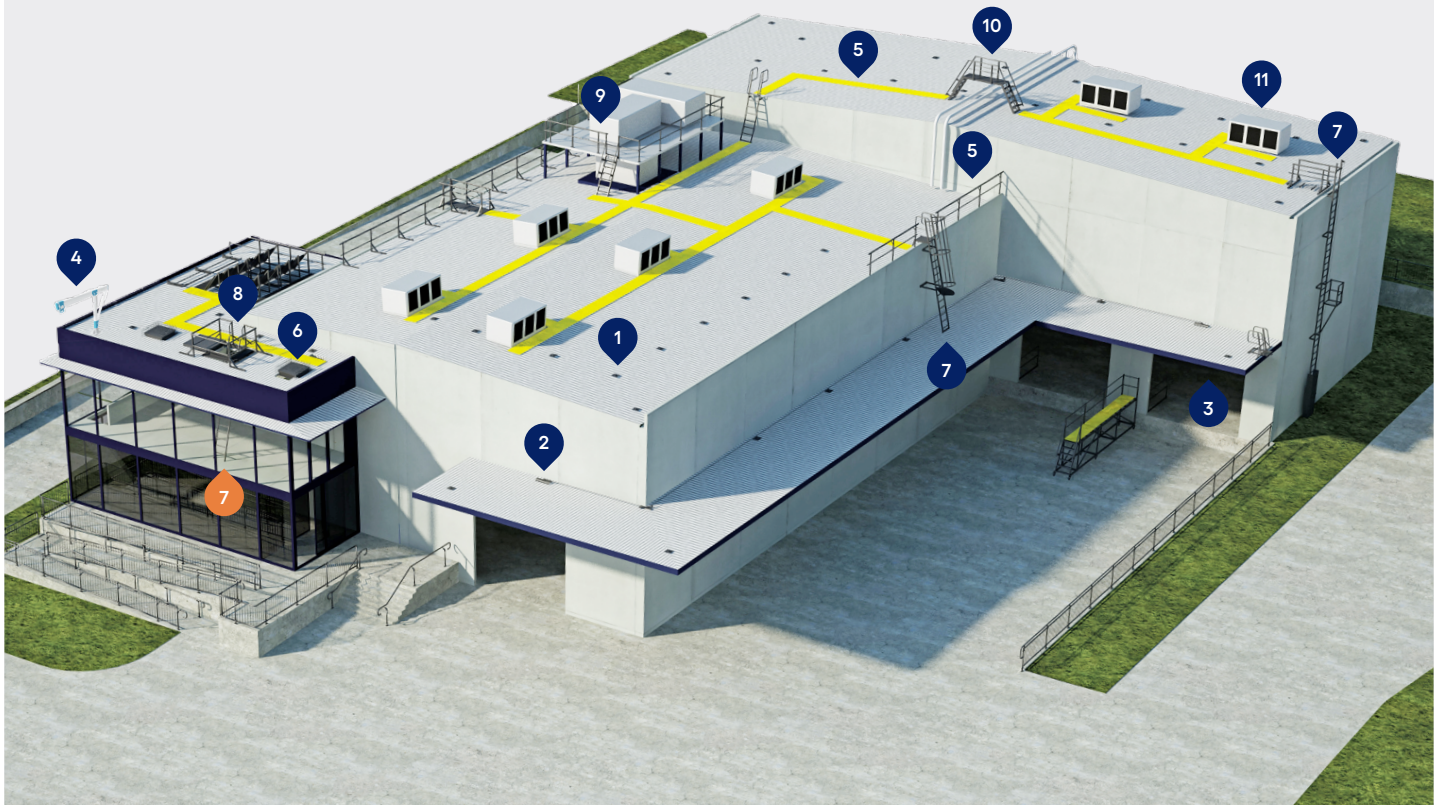
## Commercial building height access and fall protection requirements

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](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





# FOLD DOWN LADDERS

Easy access for maintenance personnel minimising risk of injury and encouraging quality preventative maintenance.



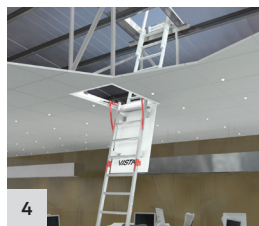
**1**  
**Aluminium support frame**  
Heavy duty pre-finished aluminum frame.



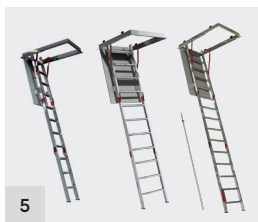
**2**  
**Soft close door**  
Soft close gas strut assisted mechanism.



**3**  
**Melamine laminate door**  
Pre-finished white door with heavy duty hinges.



**4**  
**Industrial rated**  
150kg rated design with non-slip profiled rung for a high strength and sturdy access solution.



**5**  
**Multiple sizes**  
Supplied in either 3.2m or 4.3m heights to suit varying roof and ceiling spaces.



**6**  
**Adjustable feet**  
Adjustable feet inserts to suit final floor level.





# SYSTEM LIMITATIONS

## Must be read prior to installation

1. Minimum structural requirements for attachment of fold down ladders:
  - Steel purlin: 100 x 1.5mm base metal thickness
  - Timber truss: 90 x 35mm F7 structural grade timber
2. Minimum concrete fixing requirements:
  - 2 x 10/12mm x 75mm Screwbolt or
  - 2 x 12mm x 75mm Trubolt per bracket (Standard concrete edge distances and thicknesses apply)
3. The structure must be designed to support 200kg load.
4. Kattsafe fold down ladders are for single person use only rated to 150kg.
5. This system, under normal use and environment, has a life expectancy of up to 10 years. This will depend on location, usage and scheduled maintenance as per manufacturer and legislative requirements.
6. Do not tamper with or make alterations to system components without manufacturer's consent.
7. This system is not to be used for tethering or lifting machinery or equipment.
8. Kattsafe fold down ladders must not be used in the following environments:
  - External areas exposed to the elements
  - Moist or damp areas
  - Corrosive/harsh environments



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

Insert hook into eyelet on door and pull door down. Operator must stand behind ladder whilst pulling door down.



## Step 2

If the ladder is reachable by hand, stand on the side and start lowering the 2nd stage of the ladder.

Always stand on the side if operating by hand.



## Step 3

If not reachable by hand, systems fitted with red tubes can push the 'pull stick' through the red tube, then locate the hook onto the top end of the tube.



## Step 4

Pull the fold down ladder towards you.



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### Step 5

Continue to lower the ladder until you can safely pull the remainder of the ladder by hand, then remove the 'pull stick' from the tube.



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### Step 6

Open the ladder, ensuring all hinges are fully unfolded and check all parts are safe/secure before climbing.





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# SYSTEM MAINTENANCE

## Must be read prior to checklist


1. The fold down ladder 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. 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.
4. Fixing and support structure attachment and suitability must be checked by competent person.
5. Any signs of distortion or excessive load to the fold down ladder system must be inspected and recertified by competent person.
6. The identification label must be completed confirming certification, maintenance and recertification of the system.
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.


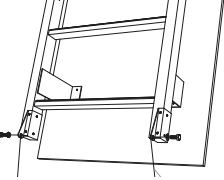

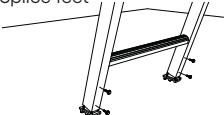
# MAINTENANCE CHECKLIST

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
Structure  	Check for any visible damage to the ladder which could cause failure or injury to operator.			
	Check fixing bolts to structure are secure			
	Check structure to which ladder is attached is suitable for the required loads - 150kg.			
Door  	Check door mount fixings to primary ladder body are secure.			
	Check door hinge bolts are secure.			
Ladder body  	Check fixing bolts of strut arms to ladder are secure. (These must be firm but still allow hinge to function correctly.)			
	Check all ladder body hinge bolts are secure. (These must be firm but still allow hinge to function correctly.)			
Splice feet  	Check fixings into splice feet are secure and feet positioned correctly to support ladder.			

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# TECHNICAL SPECIFICATION

## Fold down ladders

### LD460

Kattsafe fold down ladders with gas strut soft-close function, typically installed into suspended ceiling spaces designed for internal access for maintenance to plant and equipment. System design, supply, layout, installation and certification by a Kattsafe approved installer, as per the manufacturer's installation instructions and current standards.

### Materials

All components and accessories manufactured from high grade structural aluminium with options for powder coating.

### Dimensions

#### LD461

- Standard or suspended ceiling type
- Floor to ceiling height: 2200mm to 3200mm
- Ceiling opening required: 1230mm x 785mm

#### LD462

- Timber truss with plaster ceilings
- Floor to ceiling height: 2200mm x 3200mm
- Ceiling opening required: 1230mm x 570mm

#### LD463

- Standard or suspended ceiling type
- Floor to ceiling height: 2200mm to 4300mm
- Ceiling opening required: 1630mm x 785mm

### Weight (excludes accessory items)

- LD461: 40kg
- LD462: 32kg
- LD463: 50kg

### Fixings (refer to installation manual)

- Metal fixing: M8 bolt set into support structure
- Concrete fixing: M10 mechanical concrete anchor
- Metal purlin fixing: M8 bolt

### Rating

- Recommended for single person use – 150kg rated.
- Industrial rated, suited to high frequency usage.
- Support structure integrity, suitability and fixing method to be assessed and determined by a engineer unless it is clear to a competent person prior to installation.

### Compliance

- Kattsafe fold down ladders are designed to comply with requirements of Australian Standard AS1657:2018 and relevant statutory OHS Codes of Practice/Guidelines.
- Fold down ladders are not specifically detailed in the AS1657:2018 Standard.

### Testing

Testing and performance based on requirements for fixed rung ladders of Australian Standard AS1657:2018.

### Product warranty

3 years from date of purchase subject to correct installation, use and maintenance in accordance with manufacturer's specifications and recommendations.

### Inspection and maintenance

Inspection and certification required every 12 months by competent person in accordance with manufacturer's specifications and requirements of Australian Standards AS/NZS 1891 and AS/NZS 5532. (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 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](http://kattsafe.com.au)

# Kattsafe

Height access  
and fall protection

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