



USER INSTRUCTION MANUAL
LADDER BRACKET

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:

AFA930123



DISCLAIMER

The information provided in this User Instruction is based on technical data obtained by KStrong under laboratory conditions and is believed to be reliable; however, KStrong makes no guarantees regarding results and assumes no liability or obligation arising from the use of this information. Since conditions of end use are beyond KStrong's control, it is the user's responsibility to assess hazard levels, determine product suitability for the intended application, and ensure the use of appropriate personal protective equipment. Evaluation under specific end-use conditions should be conducted by persons with appropriate technical expertise at their own discretion and risk.

This information is provided solely to assist in verifying that the selected product is suitable for its intended use. Any product that is damaged, torn, worn, punctured, altered, or misused must be removed from service immediately. Failure to follow the manufacturer's instructions for proper use, care, maintenance, or system integration may result in serious injury or death. All manufacturer's instructions for each component or part of the complete system must be read, understood, followed, and retained, and must be always kept available for the user's reference. The user is advised to retain this User Instruction document for the life of the product.

Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on its proper use. Users are required to complete and record the pre-use inspection as outlined in this UIM. Failure to follow these inspection and usage requirements significantly increases the user's liability exposure, as improper or undocumented use may not be supported during an incident investigation and could affect warranty or service outcomes. The manufacturer is not liable or responsible for any loss, damage, or injury caused or incurred by any person due to improper usage or installation of this product.

IMPORTANT SAFETY INFORMATION

Failure to follow these instructions may result in serious injury or death. Read and understand all instructions before using this fall arrest system.

PREFACE

For supplementary information, see **Safe Work Australia - Model Code of Practice: Managing the Risk of Falls at Workplaces 2011. Section 9**

1. Key Considerations

Hazards

Operating this equipment in hazardous conditions may result in equipment damage and/or impair its performance. Such hazards include, but are not limited to: extreme temperatures, sharp edges, chemical agents, electrical conductivity, abrasion, cutting forces, outdoor exposure, and rotating or moving machinery.

Training

All users must receive adequate training in the inspection, configuration, and operation of this equipment. Each user is responsible for ensuring they are properly trained and fully aware of the equipment's operational limits.

- Failure to use this equipment correctly may result in severe injury or death.

Record Keeping

KStrong advises that the owner of this product keeps a record, which is made available to users, containing the following: product identification marks; manufacturer name, contact details and serial number; suitability for use with other components; date of purchase; date into service; date of next inspection/service, and; a space for user comments.

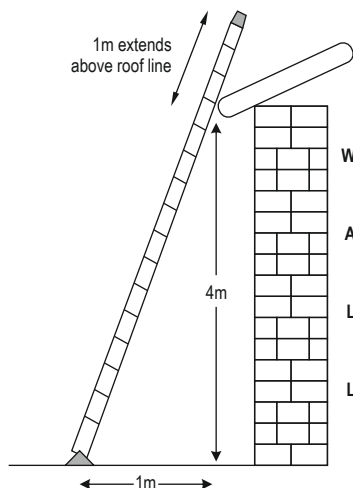
2. USE

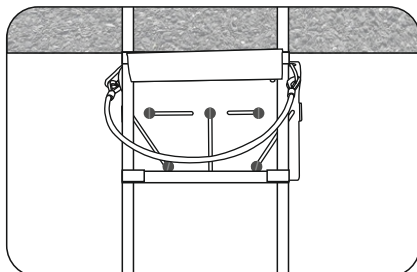
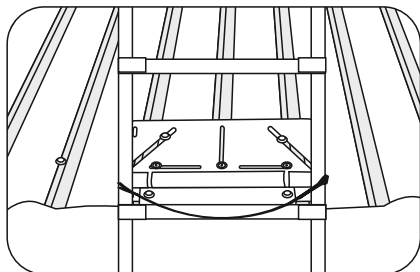
Planning

Prior to commencing work, assess all workplace hazards and that the temporary ladder to be used is compliant and in a suitable condition. Confirm that all users are physically fit and competent to operate this equipment.

Set-Up and Use

- 1A. Conduct a Pre-Use Inspection of the portable ladder to be used, the KStrong Ladder Bracket and supporting structure, as per this instruction manual.
- 1B. If the KStrong Ladder Bracket and/or structure fail this inspection, remove from service immediately - tag or isolate to prevent further use - return into service only after a competent person inspection clears it. Record the event and further actions taken.
2. Review the 120kg load rating with respect to user weight(s) including tools and materials.
3. Check Ladder Bracket compatibility with ladder rung.
4. Set up ladder at an angle that follows the "4:1 rule" and allows for at least 1m of ladder to extend above the Ladder Bracket.
5. Check that all portable ladder length extension mechanisms are locked off.
6. Check that the ladder is securely footed.
7. Undertake a careful initial climb, without any other tooling or materials, and wrap the Secondary Retention Strop around, and through, the ladder styles, as to secure the ladder to the Ladder Bracket.





- Always maintain 3 points of contact whilst climbing or descending a temporary ladder to access a roof.
- KStrong recommends the use of a personal fall protection system, including full body harness, shock absorbing lanyard and/or adjustable rope lifeline system with shock absorber, whilst accessing and working on roofs.
- KStrong also recommends the temporary or permanent installation roof anchors, including an anchor within reach of the ladder bracket, to facilitate a safe transition between ladder and roof.
- The Carabiners provided as part of the Secondary Retention Strap are NOT for Personnel Use and must never be used as part of a personal fall protection system.

3. STORAGE, TRANSPORT AND MAINTENANCE

Storage and transport

This equipment must be stored and transported in a cool, dry location, shielded from hazards and protected from direct sunlight.

Maintenance

The KStrong Ladder Bracket non serviceable. The equipment may remain in service until it fails an inspection.

- Do not attempt to alter or take apart this product, once installed, in any way.

Cleaning

Periodic cleaning by the end user can help extend the service life. Following any cleaning, carry out the pre-use inspection. Use a cloth and warm water to clear away dirt and grit. For grease or oil residue, a mild detergent may be applied.

- Never put this product away while it is still wet. Ensure the product is fully dry and has passed a pre-use inspection before returning it to service.

4. INSPECTION

Before and After Use

The KStrong Ladder Bracket, and the surrounding anchorage structure, must be checked by the user both before and after every use to ensure that it is in a serviceable condition.

Competent Person

The KStrong Ladder Bracket, and the surrounding anchorage structure, must be inspected by a competent person no less than once every 12 months, and must meet all specific criteria set out in the inspection record for that product.

Procedure

- **Supporting Structure** – inspect the surrounding masonry, concrete, timber or steel structure for cracks, excessive/penetrative corrosion, or any other signs that it's structural integrity may be compromised.
- **Fixings** – Check for at least 5 fixings and inspect for damage, deformation, corrosion or signs of over loading.
- **Ladder Bracket Assembly** – Check that the Mounting Plate, Rung Support Arm and Secondary retention strap are all present and free from damage, deformation, corrosion or signs of over loading.
- **Markings** - inspect all markings/labels are present and legible.

5. LIMITATIONS OF USE

Temperature Range for Use

The KStrong Ladder Bracket has been tested to work safely at temperatures between -40°C & 54°C.

Product Life

The KStrong Ladder Bracket has a standard lifespan of 10 years from date of installation, but may remain in service indefinitely, providing it passes annual competent person inspections. It must be noted that the effective lifespan of the product will be limited by both the condition of the anchorage structure into which it is installed, and the fixing methodology.

Bi-Metallic Corrosion

Where dissimilar metals are in contact or in proximity, bi-metallic (galvanic) corrosion may occur. All metallic components must be compatible with the installation substrate and surrounding materials. Where dissimilar metals cannot be avoided, appropriate isolation measures must be applied to prevent direct metal-to-metal contact.

Corrosive Environments

KStrong Ladder Brackets manufactured from stainless steel grade 316 and aluminium are suitable for use in most environments. However, exposure to corrosive conditions — including coastal, marine, industrial, chemical, or high-humidity environments — may accelerate degradation and reduce service life. In corrosive environments, inspection frequency must be increased beyond standard intervals, as determined by a competent person.

6. WARNINGS

Warnings for Use

- This product is rated for one portable ladder and one person using that ladder at a time only.
- This product is NOT an anchor device for a personal fall arrest system and should never be connected to for that purpose.
- This product is for personnel use only and must never be used for materials handling.
- Connect ladder only to the Rung Support Arm - do not attach to any other location.
- Always secure the ladder with the Secondary Retention Strop.

Warnings for Installation

- Misuse, incorrect installation, or failure to maintain this product may lead to severe injury or death.
- KStrong Ladder Brackets should be used for accessing roofs under 6m high, from ground level only.
- The supporting structure must be assessed by a competent person. If there is any doubt regarding its strength or suitability, it must be referred to a qualified structural engineer for evaluation.
- KStrong products must be installed, operated, and serviced in line with the relevant KStrong installation and use manual.
- KStrong's products must be operated in compliance with the prevailing working at height regulations, codes of practice, standards, or legislation applicable in the country of use.
- Throughout installation, operation, and servicing, workers must not be placed at risk of a fall hazard.
- Installation must be performed by, or under the direct supervision of, a competent person.
- Prior to installing this product, the installer must complete all relevant KStrong training.
- No alterations to this product may be made without prior written authorisation from KStrong.

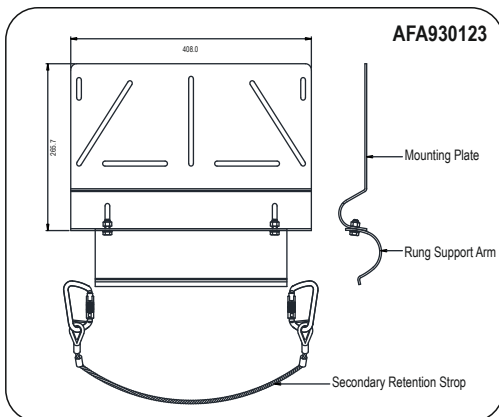
7. SPECIFICATION

Description: The KStrong Ladder Bracket covered in this UIM is designed to be surface mounted to steel roofs as well as under tiles to timber battens. The product may also be surface mounted to the tops of parapets. By changing the orientation of rung support arm, the product may also be wall mounted to concrete, masonry or through cladding into timber studs. It then provides a secure hanging and fixing location, at roof level, for a portable ladder.

Standard/Code: Use of the KStrong Ladder Bracket supports compliance with Safe Work Australia - Model Code of Practice: Managing the Risk of Falls at Workplaces 2011. Section 7.1.

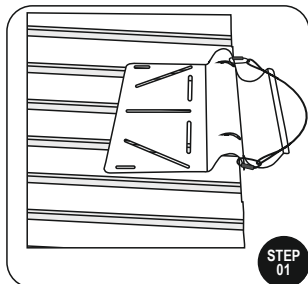
User Rating: This product is rated for one portable ladder and one person using that ladder at a time.

Maximum user weight, including any tools and materials is 120kg.

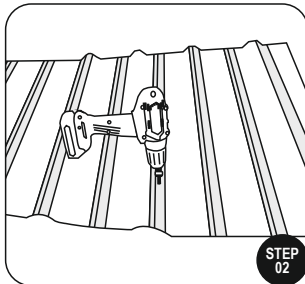


8. INSTALLATION

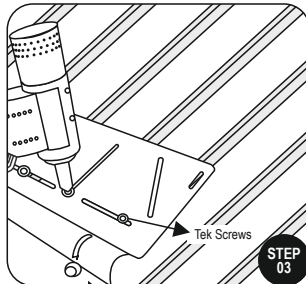
Roof Installation



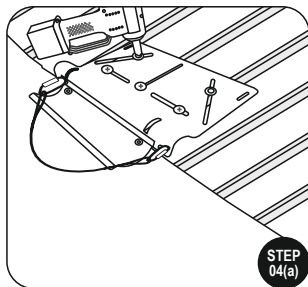
Place the Ladder Bracket support on the roof edge as shown in image.



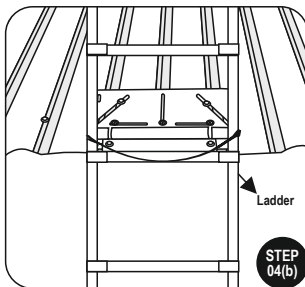
Remove existing hex head roofing screw and apply silicone.



Position the Ladder Bracket and secure to roof structure using 3x14 gauge Tek Screws. Note that the raised portion is centred over the gutters front edge.

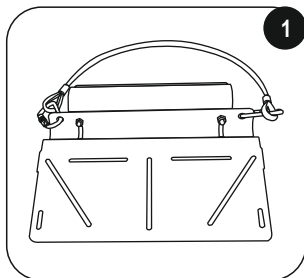


Drill 2 x 8mm holes, apply silicone and install 2 x 8mm bulb tite rivets as per image above.

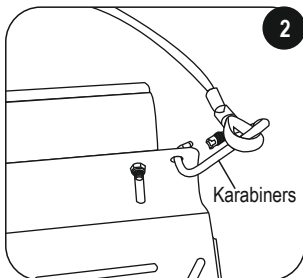


The Ladder Bracket is ready for use, place the ladder on the Rung Support Arm, at an angle, following the 4-to-1 rule, to obtain optimal support. Secure the ladder using Secondary Retention Strap, from both the sides.

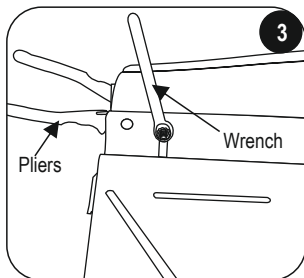
Preparing Ladder Bracket for Wall Installation



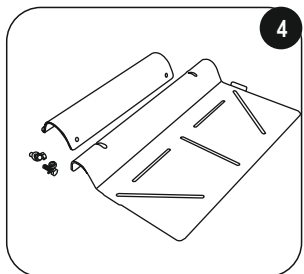
Place the product on a clean surface.



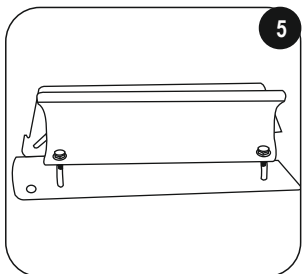
Remove the karabiners and keep them aside.



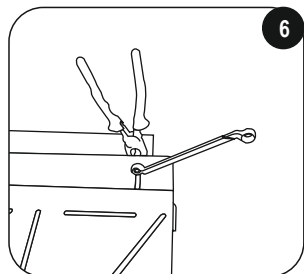
Use a wrench and pliers to loosen and remove the nut and bolt.



Place all the parts in an organized manner.

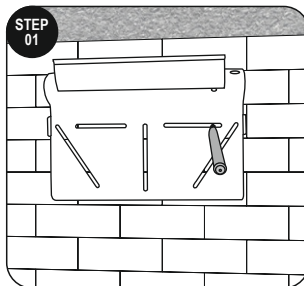


Flip the Rung Support Arm and re-fix with the nut and bolt, ensuring the holes are properly aligned at the center.

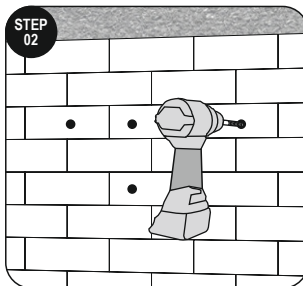


Use a wrench and pliers to tighten and secure the nut and bolt.

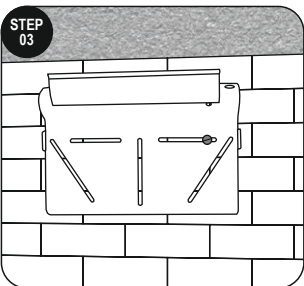
Wall Installation



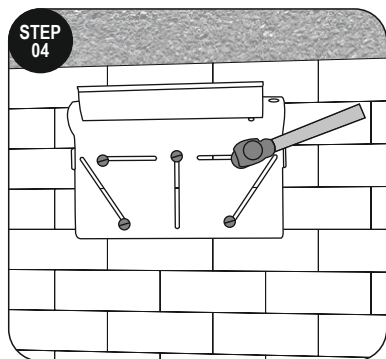
Mark the wall position with 5 drill holes whilst holding the item level in place, insuring markings avoid joins, grout or cracks.



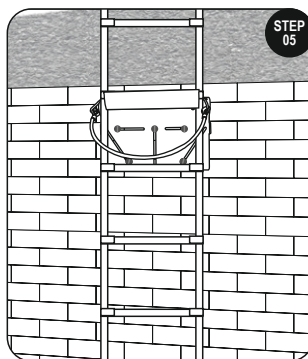
Drill holes at the marked points to a diameter which suits your selected nail-in masonry plugs. These should have a load rating of minimum 48 kg each.



Place the product to the wall and locate all nail-in masonry plugs to holes.



Fix the nail-in masonry plugs with the hammer.



The Ladder Bracket is ready for use, place the ladder on the Rung Support Arm, at an angle, following the 4-to-1 rule, to obtain optimal support. Tie the ladder using the Secondary Retention Strop from both the sides.

9. WARRANTY

All KStrong products are manufactured under strict quality control and tested in accordance with relevant international standards to ensure reliability, durability, and user safety.

KStrong warrants that its products are free from manufacturing defects in material and workmanship for a period of two (2) years from the date of purchase, unless otherwise specified. This warranty applies under normal conditions of use, storage, and maintenance as described in the User Instruction Manual (UIM).

Warranty Conditions - This warranty is valid only when:

- The product has been used strictly in accordance with manufacturer guidelines and safety instructions.
- The product has been installed, maintained, and inspected by trained and competent personnel.
- The product has not been altered, modified, or repaired by any unauthorized party.
- The product has not been exposed to misuse, negligence, or abnormal conditions (e.g. chemical contamination, fire, impact, or excessive loading).
- The product is registered with KStrong at the time of purchase or installation, where applicable.

Exclusions - This warranty does not cover:

- Normal wear and tear resulting from regular use.
- Damage due to improper installation, storage, or maintenance.
- Products that have been subjected to a fall arrest or load event.
- Unauthorized modifications or repairs.
- Damage, corrosion, deterioration or system failure caused or contributed to by a failure to complete and document the inspection, cleaning and maintenance required by the site-specific risk assessment. The assessment must set an interval of one to three months based on environmental exposure, with earlier cleaning where significant contamination is found.
- Consequential or incidental damages arising from product failure.

Warranty Claims - To make a warranty claim:

- The client must notify KStrong or the authorized distributor in writing, providing full details of the issue, including proof of purchase, serial number, and system identification.
- The product must be returned to KStrong or its designated service centre for inspection and evaluation.
- If the defect is confirmed to be due to faulty materials or workmanship, KStrong will, at its discretion, repair or replace the product free of charge.

KStrong reserves the right to determine the validity of all warranty claims, and its decision shall be considered final and binding.

Warranty Disclaimer

This warranty is in addition to, and does not affect, the consumer's statutory rights under applicable local laws.

KStrong liability under this warranty is limited strictly to the repair or replacement of the defective product and does not extend to any indirect, incidental, or consequential damages.

10. INSPECTION & CLEANING REQUIREMENTS

The end user must keep all fall protection equipment clean, serviceable and stored in accordance with the product's User Instruction Manual (UIM). This includes anchors, harnesses, lanyards, connectors, self-retracting lifelines, winches and installed systems.

Inspect equipment before each use, and annually by a competent person. Check for cuts, abrasion, burns, damaged stitching or wire strands, corrosion, deformation, loose fixings and correct operation.

Clean major dirt and deposits when found, using the method specified in the product's UIM. Clean accessible metal components with a soft cloth or soft nylon brush, clean water and mild soap/detergent. Rinse and dry them thoroughly. Clean textile components only as directed in their product UIM and allow them to dry naturally before storage. Do not immerse self-retracting devices or other enclosed mechanisms unless their UIM expressly permits it. Do not use abrasive tools, bleach, strong acids, alkaline cleaners or high-pressure washing. Do not dismantle equipment, loosen system fixings or release lifeline tension during cleaning.

Record scheduled inspections and cleaning, including the date, product or system identification, work completed, defects found and the person completing the work. Keep the records with the product or system history.

Remove any equipment that has arrested a fall, fails inspection or may have been weakened by contamination from service immediately. Follow its UIM for assessment and disposal. Cleaning does not replace required competent person inspections.

Furthermore where this product is used within environments where acid condensation, acidic vapours, chemical emissions, corrosive substances or elevated temperatures may be present, a documented site specific risk assessment must determine the inspection and cleaning frequency. Based on the assessed level of exposure, inspections and cleaning must be carried out at intervals of one to three months, and sooner if significant contamination is found. Each inspection and cleaning must be documented. Review the risk assessment and frequency if site conditions change.

11. LIFESPAN (GENERAL)

Products containing any textile component have a strict 10 year lifespan from date of manufacture. All-metal products, without any textile components, have a 10 year lifespan from date of purchase/commissioning/installation, which may be extended, year to year, conditional to annual competent person inspection. The following factors can reduce the lifespan of the product: intense use, contact with chemical substances, specially aggressive environments, extreme temperature exposure, UV exposure, abrasions, cuts, violent impacts, bad use or maintenance.

12. DISCLAIMER (GENERAL)

Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on its proper use. Users are required to complete and record the pre-use inspection as outlined in this UIM. Failure to follow these inspection and usage requirements significantly increases the user's liability exposure, as improper or undocumented use may not be supported during an incident investigation and could affect warranty or service outcomes. The manufacturer is not liable or responsible for any loss, damage, or injury caused or incurred by any person due to improper usage or installation of this product.

COMPASS

KStrong COMPASS Inspection Software is a web-based system used to record, manage, and track inspection and compliance data for fall protection systems and PPE.

It stores equipment details and inspection records for a minimum of 20 years, provides automated inspection due notifications, and allows authorised users to view real-time equipment status and compliance documentation through a secure interface.



- Cloud based online as well as offline software
- Captures geo coordinates where the system is installed
- RFID / Bar code compliant
- Generates report in real time
- Reminds user of items due for inspection
- Captures images of components
- User customizable
- Can be integrated to client software
- Reports can be shared with multiple recipients in real time

*Updates to the UIM are part of our regular revision cycle to keep the manual current and aligned with evolving best practices. While the UIM has always been compliant with the equipment's intended design and safety requirements, periodic updates are important to ensure continued clarity, accuracy, and optimal user guidance.



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