Kattsafe Height access and fall protection

Manual must be read and understood prior to use.

INSTALLATION & OPERATION MANUAL

TEMPORARY ANCHOR

AP145



Temporary anchor for an easy and cost-effective fall arrest solution for maintenance workers regularly accessing unprotected roofs.

Product brochure
Temporary anchor

Installation and operation manual
Temporary anchor

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

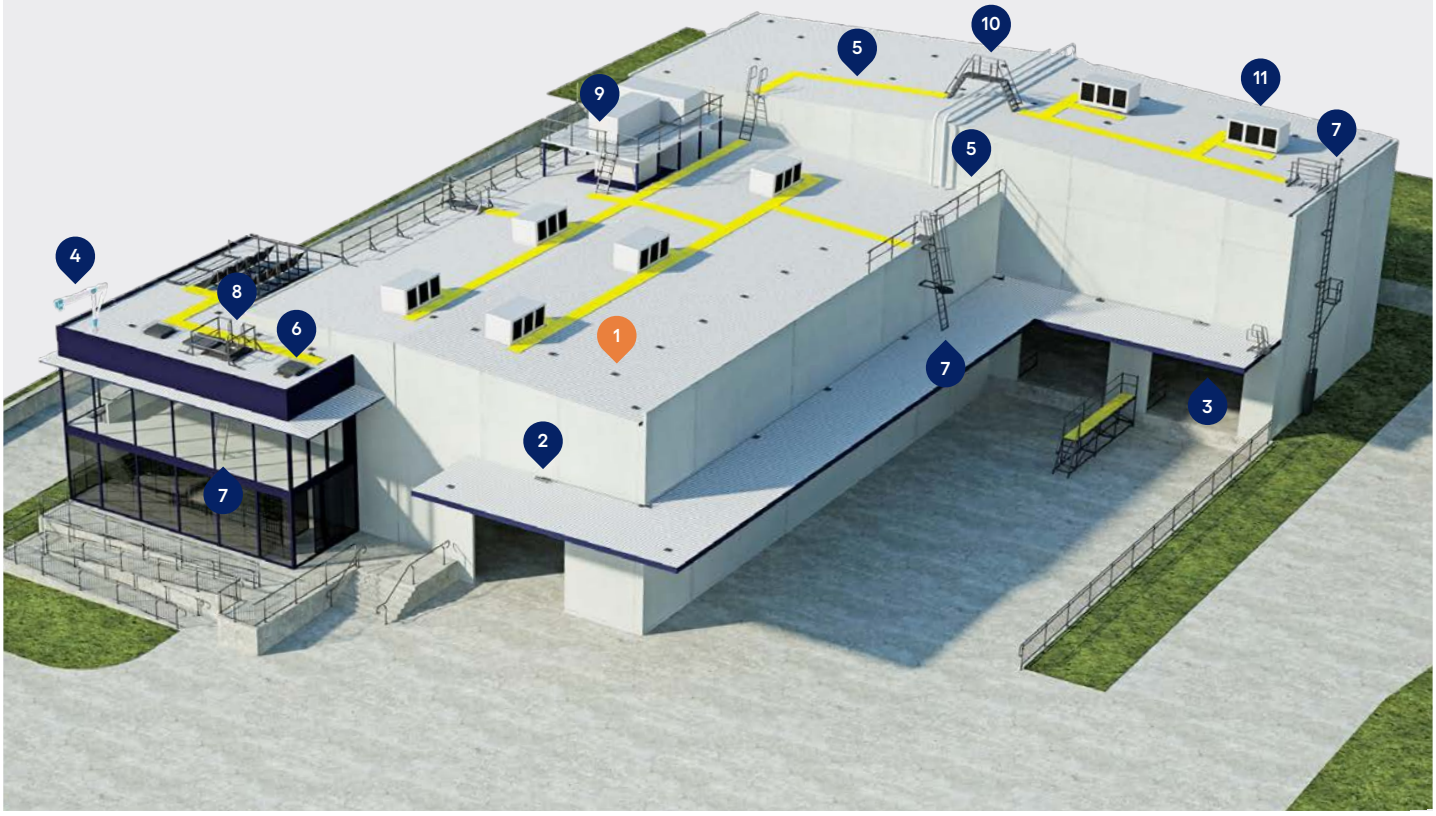
Commercial building height access and fall protection requirements

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.

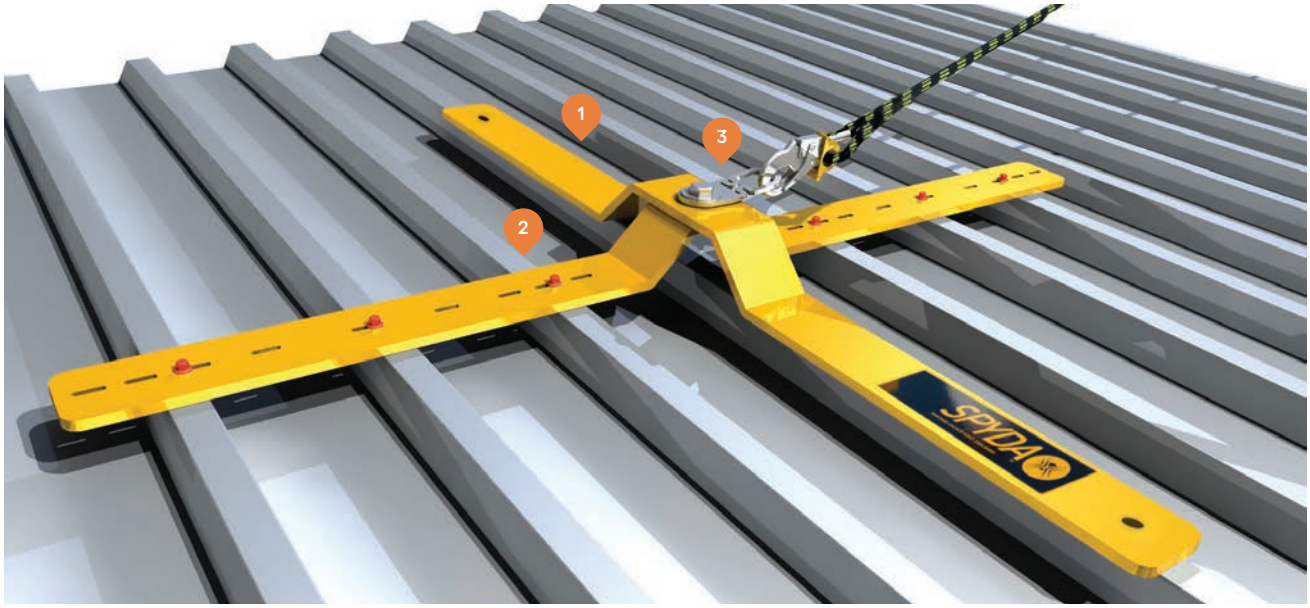
For more information please contact Kattsafe.
kattsafe.com.au

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



TEMPORARY ANCHOR

Temporary anchor for an easy and cost-effective fall arrest solution for maintenance workers regularly accessing unprotected roofs.





Foldable design

Anchor can be folded to fit into carry bag for easy transport.



Multiple mounting options

Ensuring the anchor can be fixed to multiple different roof decks. Clamps are used to mount to clip fix roofs (included with AP145C).



Swivel eyelet

Easy connection with a large eyelet, and swivelling feature means there is no risk of snap hook roll-out.

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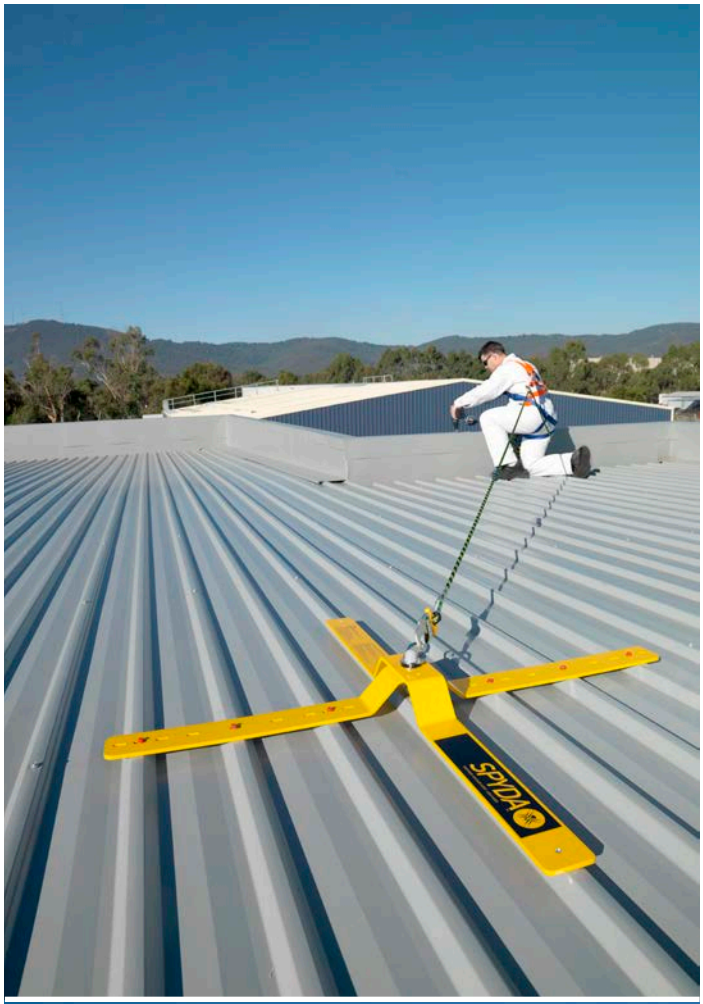
Proprietary temporary anchor system for safe work at height.

The temporary anchor provides effective lightweight and relocatable fall arrest for maintenance workers. With variable fixing options and adjustable pivot arms, it can fit onto most roofs in different applications.

In the event of a fall, the anchor provides uniform load distribution, and the unique energy absorbing swivel attachment point prevents snap hook roll-out.

Features and benefits of the system:

- Fall arrest use.
- 15kN rated.
- Simple installation with screw or clamp fix options.
- Easily portable due to its compact design and carry bags.
- Suitable for various roof decks.
- Weight range: 4.5 to 8.8kg (excluding fixings).



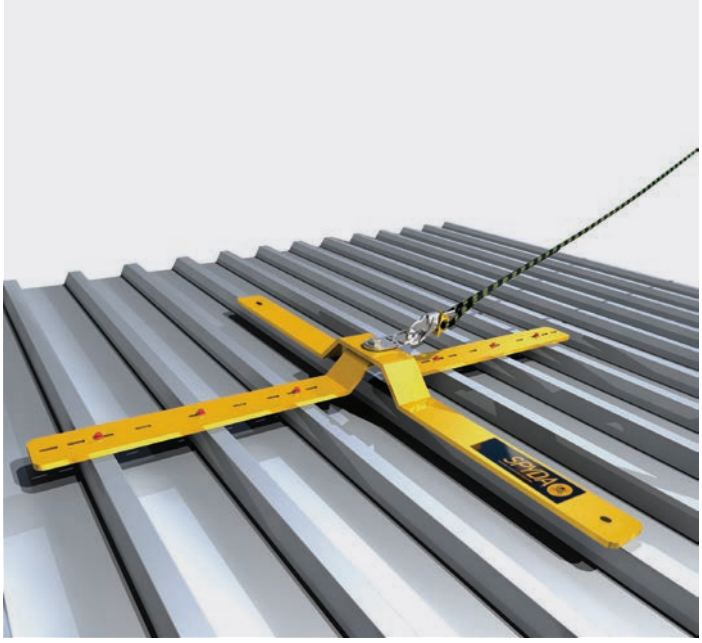


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TEMPORARY ANCHOR CONFIGURATIONS

AP145S Temporary anchor - screw fix

Temporary anchor with screw fix mounting.



AP145C Temporary anchor - clamp and screw fix

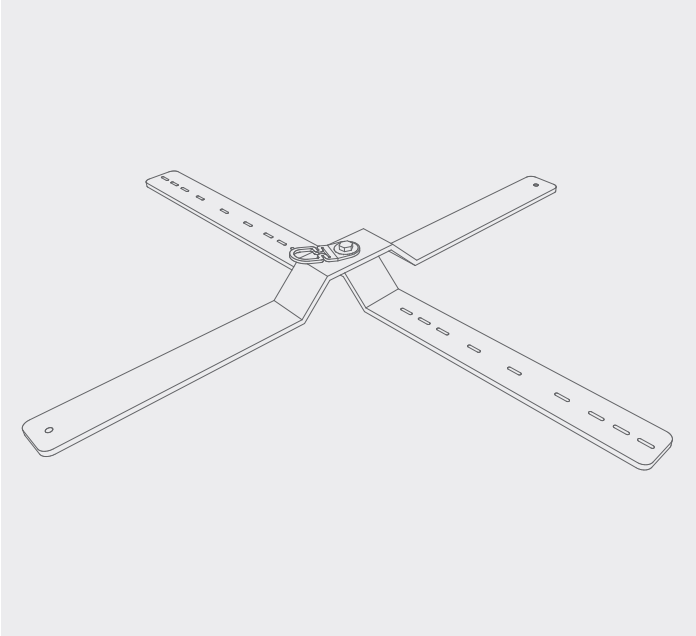
Temporary anchor with and clamp set to mount to clip fix roofs.



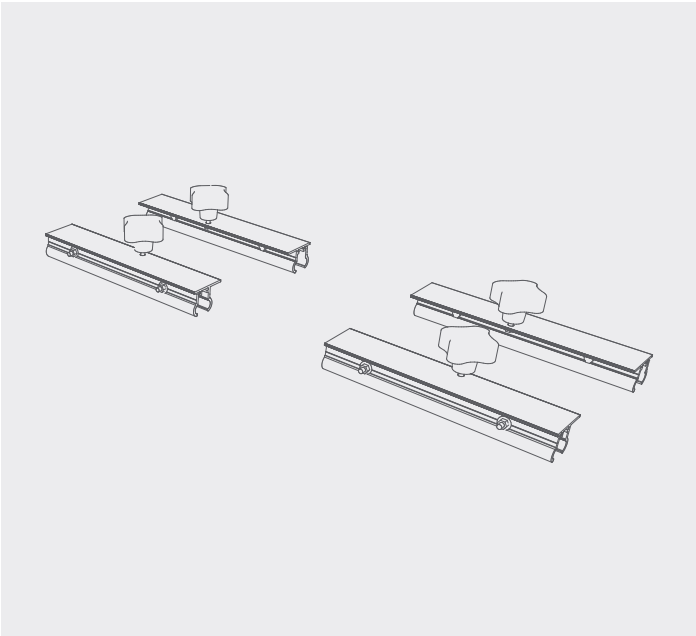
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OPERATION EQUIPMENT/TOOLS

AP145S Temporary anchor - screw fix



AP146 Roof deck clamps (for clamp fix only)



Timber fixing screws - qty 12



Metal fixing screws - qty 12



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INSTALLATION AND OPERATION REQUIREMENTS

Must be read prior to use

1. This device is recommended for single person use, unless being used for rescue - 15kN rated.
2. Only competent persons trained in the safe use of fall arrest systems to check, install or use this device.
3. Visual inspection of all temporary anchor components and fixings to be done prior to use.
4. This device has a 10 year usage life span after which it must be removed from service. (As per Australian and New Zealand Standards AS/NZS 1891.4:2009 and AS/NZS 5532:2013.)
5. All assembly and installation instructions must be read and understood prior to installing and/or using this device.
6. Visually inspect all components and fixings for any signs of damage, deterioration or distortion.
7. Ensure all associated risks are identified and controlled before proceeding with installation. Complete all necessary documentation, including a JSA (Job Safety Analysis) with an authorised Work Method Statement.
8. Authorisation to enter any risk area must be obtained from the person in control of the workplace prior to accessing.
9. Visually inspect structure to which this device will be attached.
10. Ensure support structure can sustain required loads. (Approval may be required from a qualified engineer).
11. This device is designed to absorb a fall load by deforming the swivel eye attachment point limiting the resultant load on structure to approximately 8kN.
12. Ensure this device is fixed to 'compatible' roof deck profiles only.
13. Ensure this device is set up to prevent access beyond a fall edge, controlled by correct lanyard length.
14. This device must be used in conjunction with an Australian Standards approved full body harness and energy absorbing lanyard.
15. Correct positioning of this device is essential so there is no possible 'pendulum fall' of the operator.
16. Usage and maintenance of this device must be as per all relevant Australian Standards, Codes of Practice, WHS Acts, regulatory requirements and manufacturer's guidelines.



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



The temporary anchor has been tested in accordance with Australian and New Zealand Standards AS/NZS 1891.4:2009 and AS/NZS 5532:2013 and is rated at 15kN.

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SYSTEM LIMITATIONS

Must be read prior to use

1. The temporary anchor is recommended for single person use, unless being used for rescue - 15kN rated.
2. This device must not be installed on roof/slope greater than 40°.
3. Do not use the temporary anchor with non compatible roof decks.
4. If this device is used as a 'rescue' anchorage, it must be screw fixed only.
5. This device must not be installed or used as a permanent or abseil anchor.
6. If this device is to be used in corrosive or extreme environments, approval from competent or authorised personnel must be sought.
7. Do not use device if excessive structural or roof deterioration has occurred.
8. When using this device with a temporary webbing static line, loading on the end temporary anchor must not exceed 15kN.
9. Only use the temporary anchor in conjunction with an Australian Standards approved full body harness with energy absorbing lanyard.



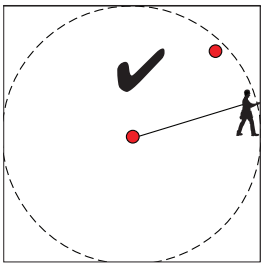
Failure to follow all warnings, operation and maintenance instructions may result in serious injury or death.

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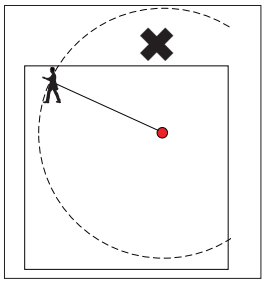
ANCHOR LAYOUT AND POSITIONING

- Ensure this device is not located in proximity of any risk/ hazardous areas ie. brittle roofs, radioactive areas, immediate fall hazard areas etc.
- Always set up this device in the safe zone of the roof where no fall is possible. Only approach fall zone once operator is safely connected to the anchor via harness and energy absorbing lanyard.
- Before use of the anchor a rescue plan must be in place in case of a fall.
- Ensure this device is correctly located. Operator must be protected from possible 'pendulum fall'.
- Ensure this device is set up to prevent access beyond a fall edge.
- Lanyard/rope line slack must be kept to a minimum (see next page).
- Ensure supporting structure can sustain all required loadings in the event of a fall.
- Do not install or use this device in a vertical application.
- Do not locate this device on a roof/slope exceeding 40°.
- Ensure this device is located on opposite pitch and used in restraint only, when working on pitched roofs.
- When using a temporary webbing static line, end anchors must be screw fixed and positioned to ensure the operator is protected from possible 'pendulum fall'.

Correct anchor positioning

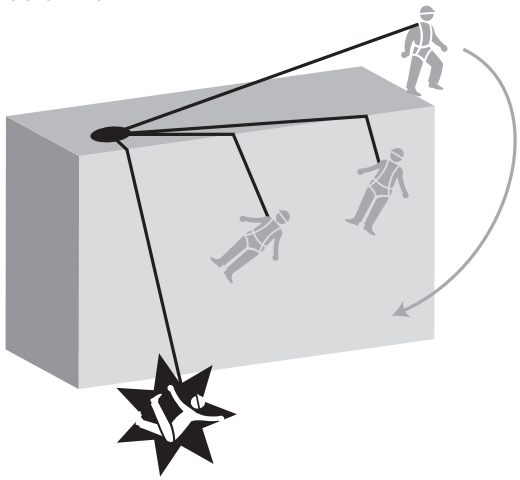


CORRECT Anchor positioning, NO risk of pendulum fall.



INCORRECT Anchor position, allows risk of pendulum fall.

Pendulum fall



Maximum roof pitch



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TEMPORARY STATIC LINE LAYOUT AND POSITIONING

This is to confirm that the Kattsafe AP145 Temporary Anchor is suitable for use with the ZERO Temporary Webbing Static Line System.

The ZERO Webbing documentation specifies a minimum end anchor strength of 18kN. This requirement is based on a full rope line/lanyrd length of 20m without any intermediates.

Our testing has confirmed that, for temporary webbing static line systems up to 10m in length, the maximum anchor load is less than 15kN.

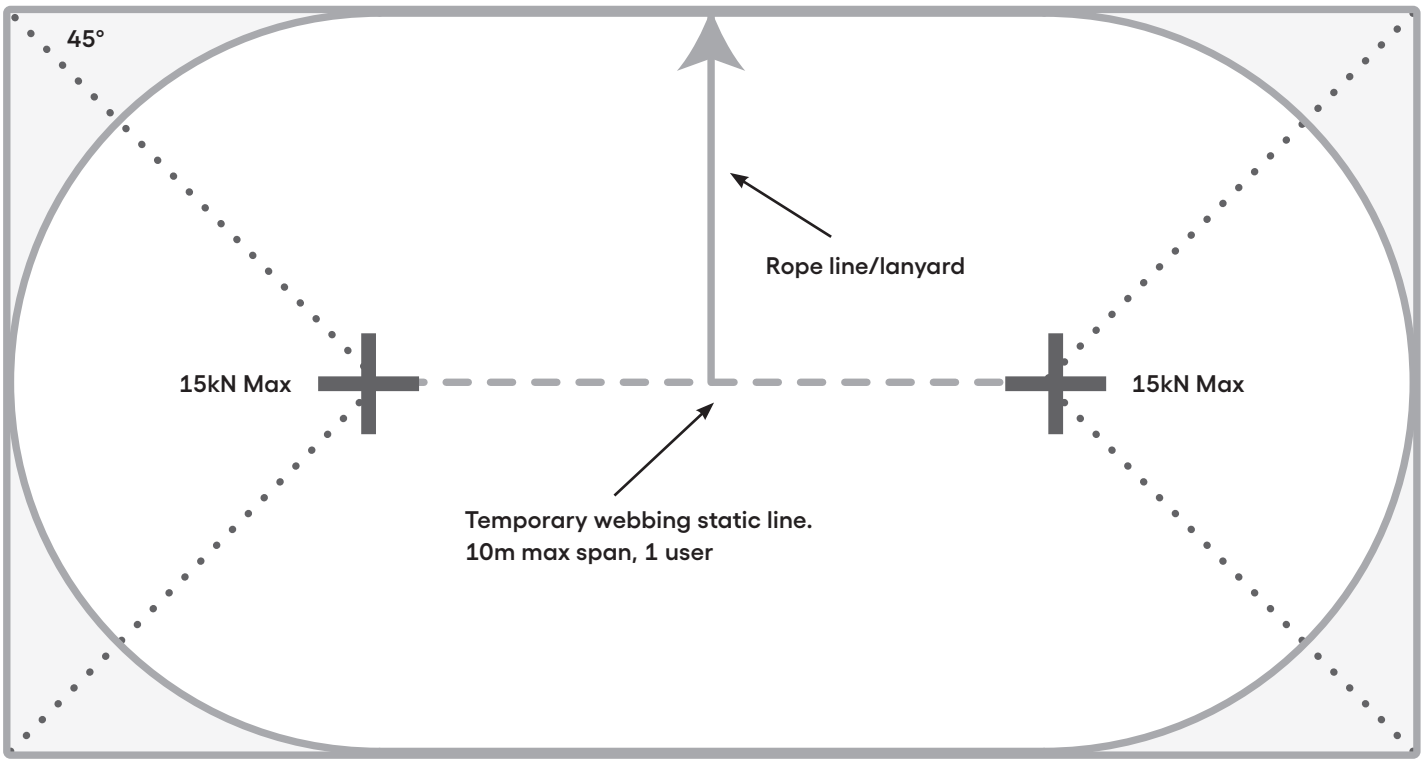
The AP145 Temporary Anchor documentation requires an intermediate anchor to be installed on systems 10m or longer. This requirement is specifically intended to limit anchor loads to a maximum of 15kN.

Based on these testing outcomes and installation requirements, the AP145 Temporary Anchor is suitable for use with the ZERO Temporary Webbing Static Line System.

- Temporary webbing static lines connected to the temporary anchor must have a maximum span of 10.0m. One user per span.
- Temporary webbing static lines connected to the temporary anchor can only have a maximum end load of 15kN.

This device may only be used in conjunction with a proprietary temporary webbing static line, provided the end anchor loading does not exceed 15kN.

Maximum single span is 10.0m. Span can be increased by adding additional temporary anchors (screw fix only) as intermediate anchors. Maximum one user per span. Clamp fix option is not to be used for static line loading.



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ROPE LINE LAYOUT

Correct rope line length

No slack in rope line, user has no risk of a pendulum fall.



Incorrect rope line length

Considerable slack in the rope line, which puts the user at risk of a pendulum fall.

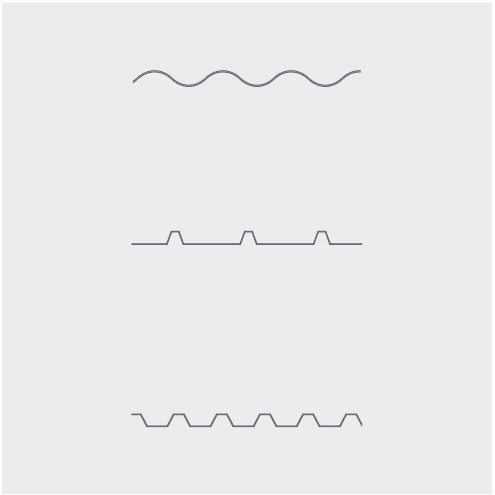


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ROOF DECK PROFILE SELECTION

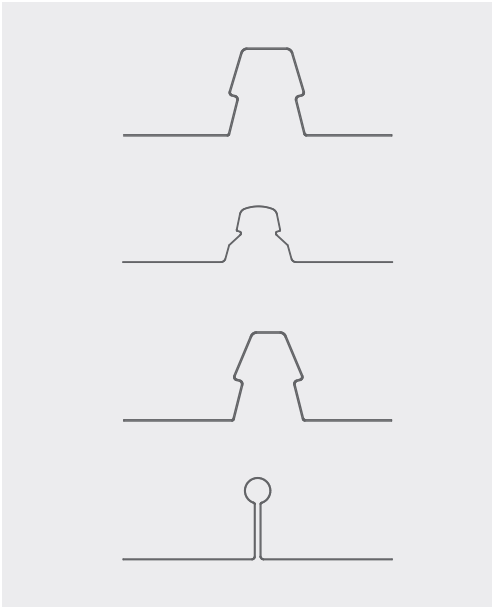
Screw fix installation

- Corrugated, Trimdeck® and Spandeck®.
- Use AP145S temporary anchor - screw fix.
- No need for clamp system to be used.



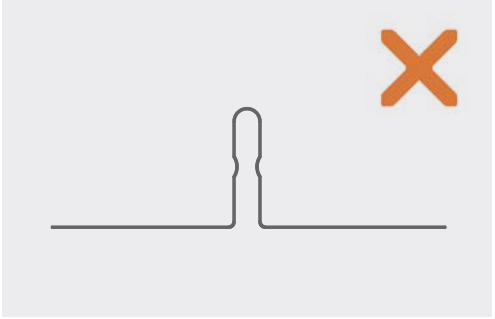
Clamp on installation

Use AP145C temporary anchor - clamp and screw fix.



Non compatible roof deck profiles

- Do not install the temporary anchor onto these roof deck profiles.
- Both the screw and clamp fixing method are not compatible.



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SCREW FIX INSTALLATION PROCEDURE

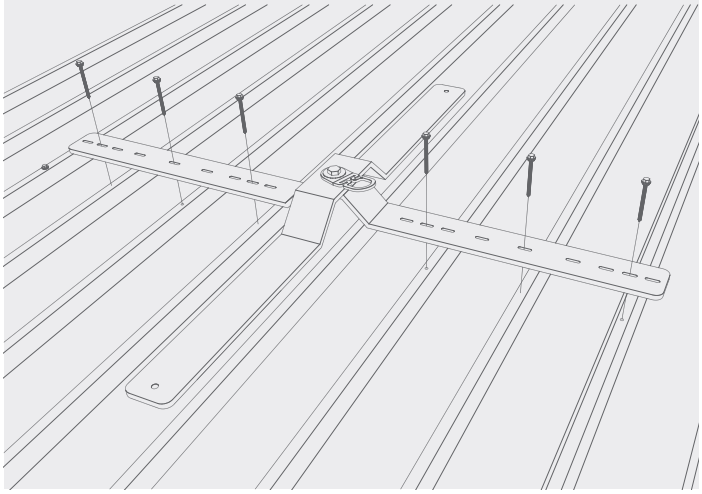
Step 1

- Remove the temporary anchor device from the carry bag.
- Open arms into open cross configuration - approximately 90° to each other.



Step 2

- Remove existing roof deck fixing screws. Check integrity of battens. If unsure, consult engineer.
- Position ‘slotted arm’ at right angles to direction of roof deck and position ‘secondary arm’ on roof deck ribs. Do not fix this arm.

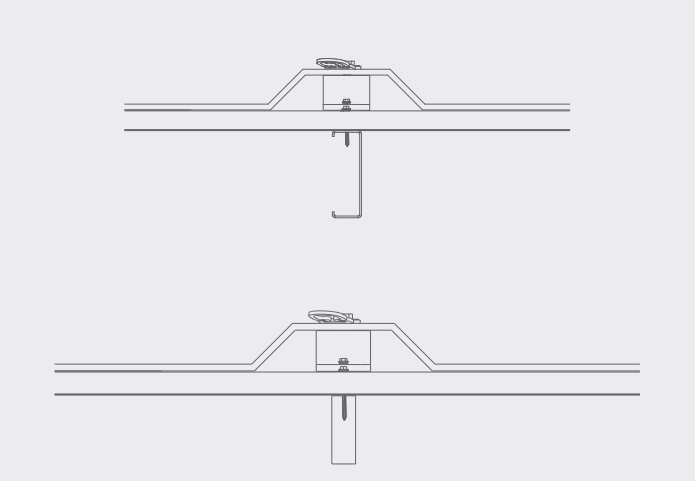


Step 3

- Fix ‘slotted arm’ to roof deck/support structure with (6) 14g x 75mm tek screws.
- Metal fixing: screws must penetrate structure by at least 20mm. (Top diagram).
- Timber fixing: screws must penetrate structure by at least 40mm. (Bottom diagram).

⚠ Minimum 20mm penetration into metal purlin, using appropriate screws for metal fixing. Minimum purlin size - 150 x 1.9mm. Minimum 3 purlins required.

⚠ Minimum 40mm penetration into timber purlin/batten using appropriate screws for timber fixing. Minimum timber size 70 x 35 MPG10 (F7) Minimum 3 purlins required.

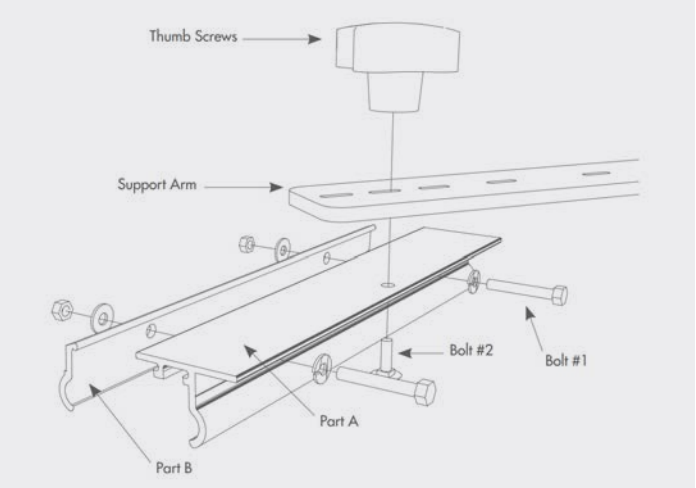


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CLAMP FIX INSTALLATION PROCEDURE

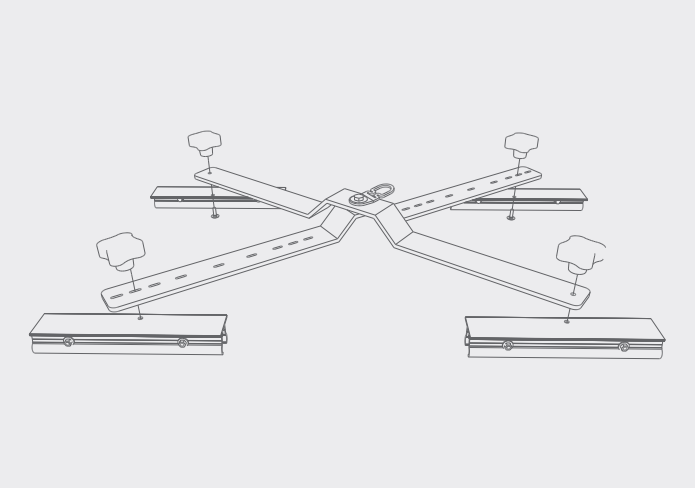
Step 1

- Assemble part A and part B of four deck clamps.
- Insert long bolts (bolt #1) through Part A and Part B, loosely tighten the nuts.
- Insert short bolt (bolt #2) through deck clamps and holes on ‘support arms’.
- Loosely tighten thumbscrews. Repeat steps for all four deck clamps



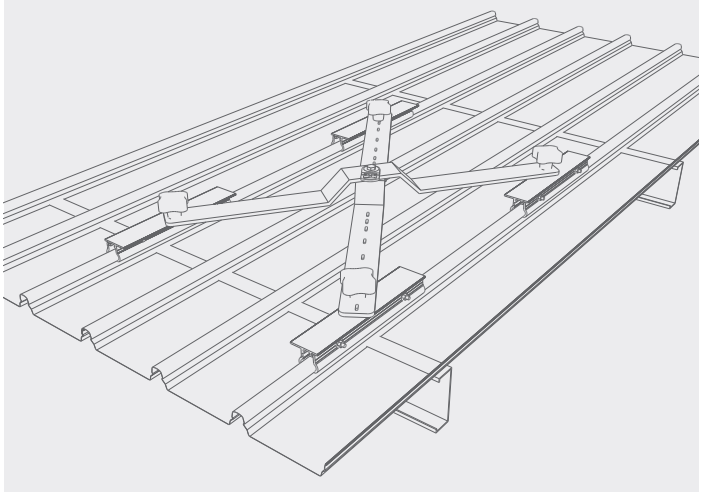
Step 2

Attach all four deck clamps to support arms.



Step 3

- Position arms diagonally to direction of roof deck.
- Loosen deck clamp bolts and locate clamps over roof deck ribs.
- Any two of the deck clamps must be located directly above the purlin.
- Do not position deck clamps on a roof sheet lap join.
- Tighten eight M8 deck clamp bolts to minimum torque of 28Nm. (Approx 3 revolutions, once finger tight).
- Tighten thumbscrews securely (hand tight is sufficient).

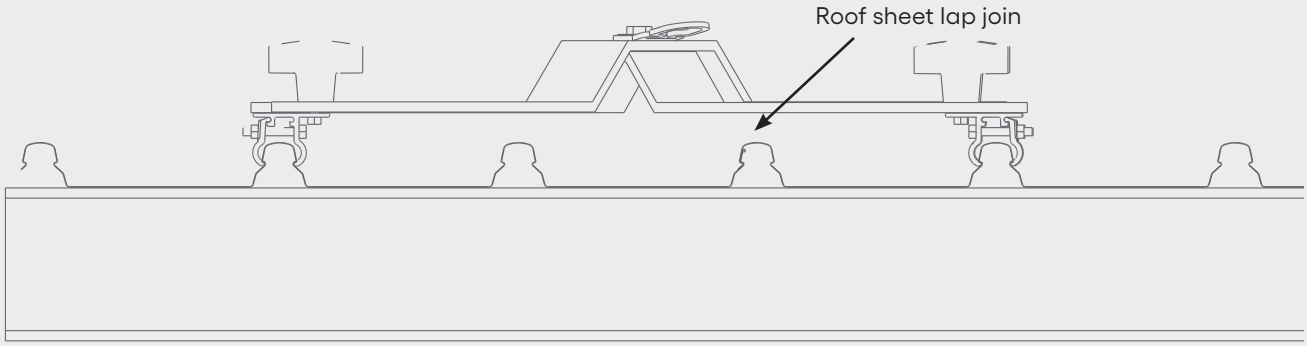


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CORRECT CLAMP PLACEMENT

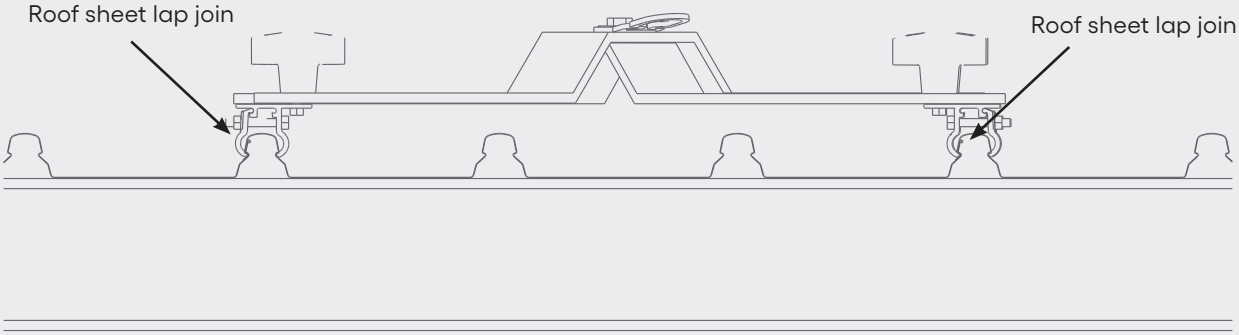
Correct clamp placement

Off roof sheet lap join. Clamps to be located over purlin.



Incorrect clamp placement

On roof sheet lap join.



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TEMPORARY ANCHOR REMOVAL PROCEDURE

Screw fix

1. Remove all structure fixing screws from the support arms.
2. Remove and fold away the anchor. Place in carry bag.
3. Ensure all components and fixings are stored safely.
4. Replace all fixing screws to roof. Ensure good fixing and seal integrity of roof is maintained.

Clamp fix

1. Loosen thumbscrews. Remove the anchor from deck clamps.
2. Remove and fold away the anchor. Place in carry bag.
3. Loosen deck clamp bolts and remove clamps from roof deck.
4. Store deck clamps in small bags and place in carry bag.
5. Check all roof sheets are left secured and seal integrity is maintained.

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SYSTEM MAINTENANCE

Must be read prior to checklist

1. Ensure this device has been inspected, assessed and certified by a competent person within the last 6 months. (A record must be noted on the inspection table).
2. Visual inspection of all components and fixings to be done prior to use by the operator. Should any faults and/or damage be apparent device must not be used until inspected, assessed and certified in accordance with Australian and New Zealand Standards AS/NZS 1891.4:2009 and AS/NZS 5532:2013.
3. This device must be removed from service if it has arrested a fall or sustained any abnormal loading.
4. The temporary anchor has a 10 year usage lifespan. Once this period has expired or this device has been damaged in any way it device must be tagged clearly ‘out of service’ and removed from service or destroyed.
5. Under no circumstances must any modifications or repairs be done to this device unless authorised by the manufacturer.
6. Take care to protect this device from excessive impact, heat or corrosive substances, which may affect performance of the unit.
7. Store device in carry bag at all times.
8. All fixing screws (red and yellow) must be replaced at least every fifth time of use/installation or sooner if visual deterioration is noted.

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INSTALLATION AND 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
Unit 	Check for visual signs of damage, deterioration or distortion of: support arms,swivel eye attachment point, thumbscrews, high tensile bolts, fixing screws.			
Fixings 	Ensure all bolts and fixings are securely tightened.			
Loads 	Ensure device has not been subjected to abnormal/ excessive loads.			
Position 	Ensure this device is set up and used to prevent access beyond a fall edge.			
Harness 	This device must be used in conjunction with an Australian Standards approved full body harness with energy absorbing lanyard.			

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TECHNICAL SPECIFICATION

Temporary anchor

AP145

Kattsafe temporary anchor for safe work at height. System design, supply, layout, installation and certification by competent persons trained in the safe use of fall arrest systems, as per the manufacturer's installation instructions and current standards.

Materials

- Anchor: High tensile aluminium - powder coated
- Swivel eye: Profiled stainless steel
- Deck clamps: High tensile extruded aluminium

Dimensions

- Arm length: 1270mm
- Total unit height: 120mm

Weight

- AP145S: 4.6kg (excludes fixings)
- AP145C: 8.8kg (excludes fixings)

Fixings (refer to installation procedure)

- Metal: 14g 75mm type 17 self drilling tek screws
- Timber: 14g 75mm type 17 tek screws

Rating

Fall arrest: 15kN (single person use)

Compliance

The AP145 Temporary anchor is designed and manufactured in accordance with requirements of Australian and New Zealand Standards AS/NZS 1891.4:2009 and relevant statutory WHS Codes of Practice/Guidelines.

Testing

- Testing and performance based on requirements of Australian and New Zealand Standards AS/NZS1891.4.2009 and AS/NZS 5532:2013
- Dynamic & static load tested: 15kN
- Resultant load on structure: 7.8kN

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).
- This device has a 10 year usage life span after which it must be removed from service as per Australian and New Zealand Standards AS/NZS 1891.4:2009 and AS/NZS 5532:2013.

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 to operation 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 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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Product brochure
Temporary anchor

Installation and operation manual
Temporary anchor

QMS Certification
Kattsafe Australia

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kattsafe.com.au

Kattsafe

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and fall protection

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