

SURFACE MOUNT ROPE ACCESS ANCHOR

INSTALLATION REQUIREMENTS

1. This system must only be installed by qualified individuals who are trained in the proper selection, use, and maintenance of fall arrest systems and who hold a valid SKYLOTEC installer certification.
2. Installers must possess a strong working knowledge of relevant Australian Standards, industry codes of practice, and guidelines applicable to fall arrest equipment and procedures.
3. The structural integrity and suitability of the roof structure must be verified by a structural engineer, unless a competent person can clearly confirm it is appropriate for system attachment.
4. Before beginning any work, thoroughly review all installation and operating instructions. Any modifications or deviations must be formally approved in writing by the manufacturer.
5. A thorough risk assessment must be completed prior to installation. Installers are responsible for managing or eliminating potential hazards to ensure a safe working environment.
6. All required WHS documentation, such as a Job Safety Analysis (JSA) and Safe Work Method Statement (SWMS), must be completed and authorised by the designated workplace representative before installation begins.
7. Only personnel who are trained, licensed, and approved by SKYLOTEC, and who comply with all applicable WHS regulations, are permitted to carry out the installation.
8. No alterations or removals to the supporting structure are allowed without formal approval from a qualified structural engineer.
9. If electrical or other service lines need to be relocated, this must only be performed by licensed or authorised professionals.
10. Suitable temporary access and safety equipment—such as platform ladders, scaffolding, and certified fall protection anchor points—must be used during the installation process.
11. Installation of fall arrest systems must always be carried out by at least two individuals to ensure safety in the event of an emergency.
12. Do not alter, tamper with, or remove any component of the system without express written authorisation from the manufacturer.
13. Each installed system must be clearly labelled with the following:
 - Designed for personnel use only
 - Date of commissioning
 - Scheduled inspection or service due date
 - System specifications
 - Maximum load rating
 - Installer or certifier contact details
 - Any surface coatings must be stripped back to allow for proper inspection of the structure prior to installation
14. Once the installation is complete, documentation confirming correct usage and maintenance of the system must be provided to the site or workplace manager, in accordance with the supplied operation manual.



[Online manual here](#)



SYSTEM OVERVIEW

①

Formed plate
Ensures no interference with the roof sheeting and allows free rotation of the swivel eyelet

②

Swivel eyelet
Allows user unlimited area access and has a large connection eye for varying hardware attachment.

③

Universal stainless-steel plate
Stainless steel plate is designed for harsh environments, and multiple fixing positions allowing for installation to various roof profiles



④

Screw and rivet fixing
The anchor is fixed to the roof sheets using high-strength screws and rivets.

⑤

Lightweight Design
Only weighing 2.15kg, it's easy to handle and operate without providing extra load on the roof.

TOOLS & EQUIPMENT

Cordless drill



8mm metal drill bit



3/8 Driver bit



**Battery operated
Gesipa Rivet Gun**



**or Hand operated
Gesipa Rivet Gun**



Marking pen



Tape measure



SYSTEM INFORMATION

Minimum structural requirements for attachment of surface mount rope access anchors:

- Steel purlin 150 x 1.5mm base metal thickness
- Metal roof deck 0.42mm base metal thickness
- Minimum quantity 3 purlins connected to roof deck (5 for Klip type roof surfaces)

The surface mount rope access anchor is suitable for single (1) person use and rescue in the case of a fall incident (15kN).

This system is intended for use only by individuals who have been properly trained and hold verifiable qualifications from a Registered Training Organisation (RTO) in height safety and fall protection.

Harness gear may degrade when exposed to chemicals or harsh environments. Before using equipment in such conditions, approval must be obtained from the manufacturer to ensure suitability.

Under normal conditions and appropriate use, this system is expected to remain serviceable for up to 10 years. To extend its use for an additional 5 years, a full inspection and written recertification from the manufacturer is advised. Actual lifespan depends on environmental exposure, frequency of use, and adherence to scheduled maintenance, as per manufacturer and regulatory guidelines.

All users must remain connected to the system via a lanyard equipped with a personal energy absorber, in compliance with AS/NZS 1891.5 standards.

The number of users connected to each anchor must not exceed the specified maximum capacity.

No components of the anchor system may be altered, removed, or tampered with unless explicitly authorised by the manufacturer.

This anchor is not designed for lifting or tethering tools, machinery, or any form of equipment.

Periodic recertification by a qualified height safety inspector is mandatory and should follow these guidelines:

- Every 12 months in non-corrosive or mild environments
- Every 6 months in corrosive or harsh environments, or more frequently if conditions warrant

For safety reasons, it is strongly recommended that individuals using fall arrest systems do not work alone. In the event of a fall or emergency, immediate assistance may be required. If any component has been subjected to excessive force or unusual loading, it must be withdrawn from service and inspected or replaced by a certified height safety professional before reuse.

TECHNICAL DATA

Surface Mount Anchor Overview

The surface-mounted anchor features an energy-absorbing swivel eye attachment integrated with a precision-formed stainless steel base plate. System design, supply, configuration, installation, and certification must be carried out by a SKYLOTEC-approved installer in accordance with the manufacturer's instructions and current industry standards.

Materials

- Base plate: formed stainless steel
- Swivel eye: profiled stainless steel
- Fasteners: stainless steel bolt with Nyloc nut
- Washers: stainless steel and brass

Dimensions

- Overall height (including eyelet): 79 mm
- Base plate size: 275 × 550 mm
- Unit weight: 2.15 kg

Fixings (see installation guide for details)

- To metal purlins: 14g × 75 mm self-drilling Tek screws
- To metal roof decks: 8 mm structural bulb rivets

Performance Rating

- Fall arrest / Rope access capacity: 15 kN
- Suitable for rope access

Compliance

The anchor is engineered and manufactured in line with AS/NZS 5532:2013 and applicable WHS Codes of Practice and Guidelines in Australia and New Zealand.

Testing

Performance verified to AS/NZS 5532:2013 requirements:

- Dynamic load test: 15 kN
- Static load test: 15 kN

Inspection & Maintenance

The system must be inspected and certified every 12 months by a competent person, following manufacturer specifications and AS/NZS 1891.4:2009 Section 9.

Important Notice

Any deviation from SKYLOTEC's specified installation procedures, standards, or requirements will invalidate product certification and/or warranty.

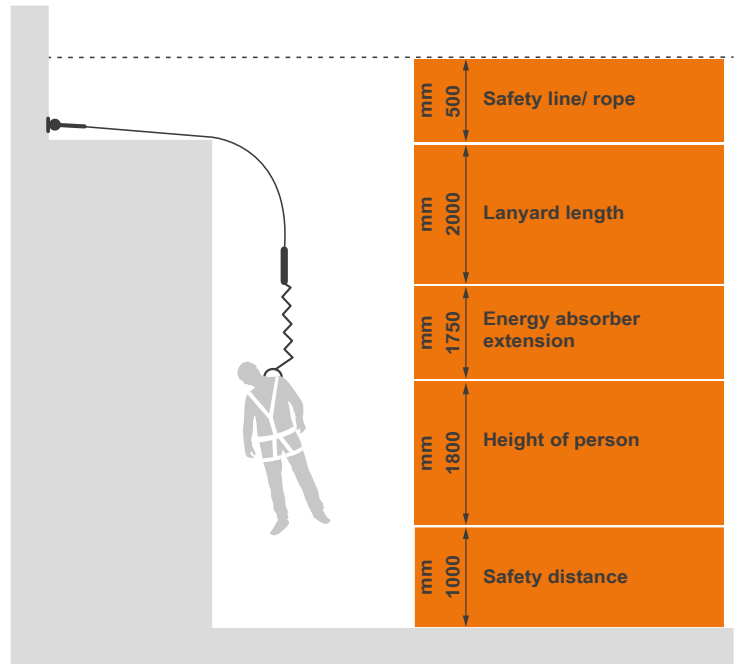
TECHNICAL BASICS

Fall clearance

There must be sufficient fall 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:

- Height of the anchorage
- Anchorage deflection
- Lanyard length
- Lanyard elongation on deceleration pull out (personal energy absorber)
- Operator height
- Fall safety distance

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 anchor including a personal energy absorber compliant with AS/NZS 1891.5:2020 and AS/NZS 1891.4:2009 limiting the force on the anchor and operator to a maximum of 6kN.

Connectors must have minimum rating of at least 15kN.

Inspection and Maintenance

Inspection and recertification of fall anchors and equipment is required at least every 12 months by competent person in accordance with manufacturer's specifications and requirements of Australian Standard AS/NZS1891.4:2009 Section (9).

Important note

Failure to supply and/or install SKYLOTEC anchor products in accordance with above standards and codes, specifications and instructions will void the anchor certification and/or warranty.

DESIGN & LAYOUT

Follow the Hierarchy of Risk Control

Always adhere to the hierarchy of control when designing or installing height safety systems. As a general rule, the lower the level in the hierarchy, the higher the reliance on user competence and skills. Systems that require minimal user interaction are always preferred, as they significantly reduce the likelihood of injury due to human error.

Seek Design Guidance Early

Consult with a competent person or system designer before installation begins to ensure proper planning, positioning, and system suitability.

Assess Environmental Conditions

Environments with acidic or corrosive atmospheres can cause serious degradation to both steel and concrete. These conditions must be thoroughly evaluated, and any affected structural components certified by a competent person prior to anchor installation.

Sub-Structure Testing Requirements

As per AS/NZS 5532, each type of sub-structure used to support an anchor must undergo individual testing and be certified for safe use by the manufacturer.

System Design Considerations

When designing or setting out fall arrest or rope access systems, consider the following:

- Roof pitches exceeding 15° require users to remain continuously connected.
- The sub-structure material determines the most appropriate anchor fixing method.
- The number of users working in the same zone may influence the choice of system.
- The nature of the work being performed helps dictate the system type and fixing.
- The frequency of access will affect whether permanent or temporary solutions are appropriate.
- Safe and efficient access pathways must be factored into system placement.

Anchor Positioning

Whenever possible, place anchors above the user to reduce fall distances and improve safety outcomes.

Avoid Tensile Load on Embedded Anchors

Anchors installed by drilling or adhesive fixing should not be positioned in a way that subjects them to direct pull-out forces (tensile loading).

Manage Lanyard Angles

When using rope-based lanyards, anchors should be installed far enough behind the user to maintain a maximum deflection angle of 20° on the lanyard, reducing stress on the anchor point.

Prevent Pendulum Swing

To avoid swing fall risks, ensure proper spacing of anchor points and adequate distance from the fall edge. Improper layout can result in dangerous lateral movement during a fall.

Establish Safe Connection Zones

Primary anchors should be located at least 2.5 metres from any fall edge. This allows users to securely connect while remaining in a safe zone before moving toward hazard areas.

Install Anti-Pendulum Anchors Where Needed

To provide safe access to perimeter areas and building corners, install diversion or anti-pendulum anchors to eliminate swing hazards during a fall.

Ensure Adequate Fall Clearance

A minimum fall clearance is essential to ensure system performance. Where available fall distance is less than 5.0 metres, anchors should be set back at least 2.0 metres from the fall edge to ensure users can operate in restraint without risk of a free fall.

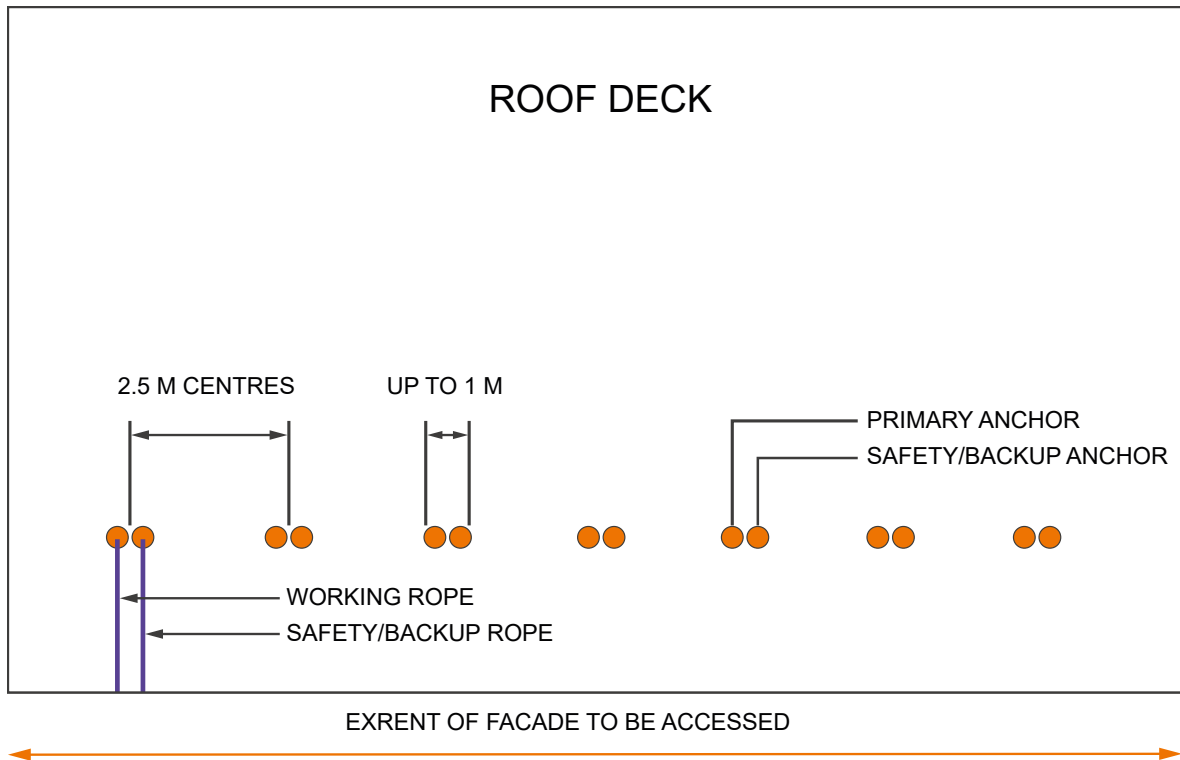
Important Note

This document is intended to support safe planning and installation but does not replace the official Australian and New Zealand Standards AS/NZS 1891 and AS/NZS 4488, which must be reviewed and understood in full prior to installing any anchor system.

DESIGN & LAYOUT

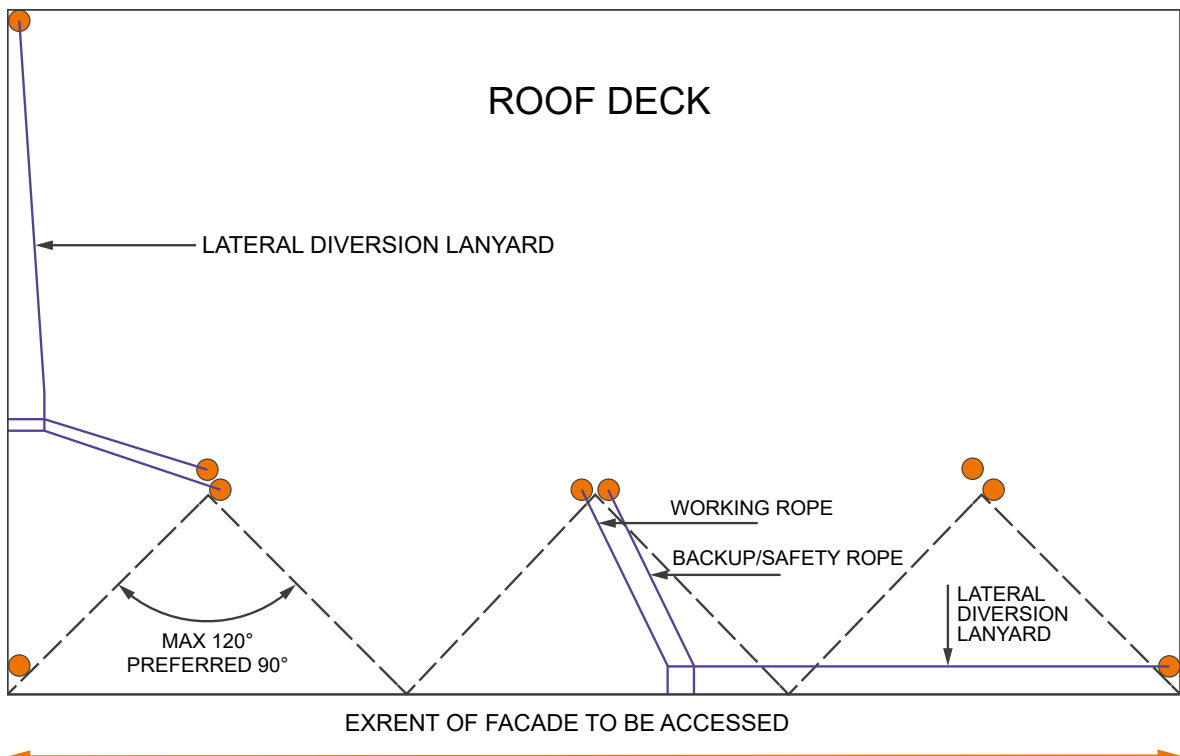
Anchor Point Layout – Rope Access Use

Option 1



- This layout is applied when anchors are installed less than 4.0 m from the roof edge.
- Where anchors are within 3.0 m of the edge, fall protection must be in place to ensure operators can safely attach rope lines and hardware.
- The arrangement provides full access to the façade for both window cleaning and general maintenance.
- If anchor pairs are set more than 2.5 m apart, access to certain areas may be limited, particularly for tasks such as caulking.

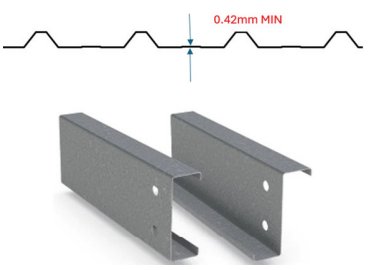
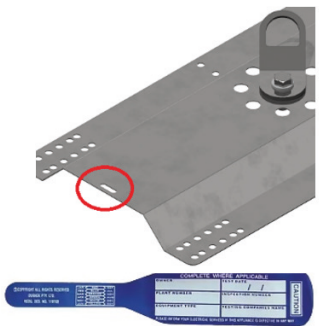
Option 2



ROPE ACCESS SYSTEM – DESIGN LIMITATIONS

1. All rope access systems must be designed and installed in compliance with Australian and New Zealand Standard AS/NZS 4488.
2. Each primary rope access anchor must be capable of withstanding a minimum ultimate design load of 15 kN (for single-person use).
3. Every anchor point must display durable and visible markings that specify:
 - The ultimate design load
 - System limitations
 - Maximum number of users per anchor
 - Next service due date
 - Installer/certifier details
4. SKYLOTEC strongly recommends that rope access layouts and installations are carried out by a competent person holding a Level 3 rope access certification.
5. All structural loadings or forces applied to parapets, awnings, sunshades, or canopies must be calculated and signed off by a qualified engineer.
6. Where an awning, sunshade, or canopy is positioned less than 3.0 m below the top of the parapet, it must be trafficable to enable safe passage for operators working past the edge.
7. Any structural elements required to withstand rope access forces (15 kN) must be specifically designed and approved by a qualified engineer.
8. Rope access anchors located within 3.0 m of a fall edge must be supported by suitable fall protection measures so operators can approach and connect to the system safely.
9. Adequate measures must be provided to protect rope lines against sharp or fragile edges, in line with current industry codes of practice and guidance.
10. All rope access products and systems must comply with applicable Australian Standards, WHS Regulations, and industry Codes of Practice.

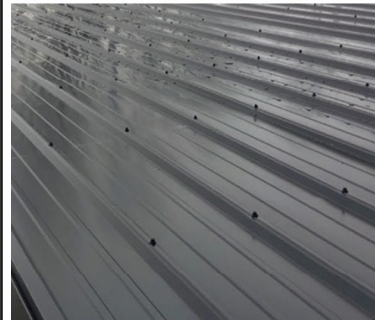
INSTALLATION CRITERIA

Structural Suitability	
- Ensure that the roof sheets & fixings are in good condition. No corrosion or deformation should be visible. - Fixings should be installed correctly according to the manufacturer's requirements. - The purlins and supporting roof structure should be in suitable condition without corrosion or deformation and should meet the expected structural requirements for anchor installation.	
Structural Requirements	
- Base metal sheet thickness must be a minimum of 0.42mm. - Steel purlin requirements are 1.5mm thickness x 150mm. - A minimum of 3 purlins must be connected to the roof sheet deck.	
Alignment & Fixings	
- Fixing holes must run parallel with the fall of the roof surface. - A minimum of 2 x 14-gauge Tek screws must be installed into each plate using the top 2 holes (as per image). - For Klip-type roof sheeting, 2 additional 14-gauge screws must be installed into a purlin on the ridge either side of the anchor plate. - A minimum of 9 x 8 mm structural bulb-type rivets must be installed into each plate.	
Labelling	
Attach an installation label to the anchor point's label slot (or suitable access point) and clearly complete all required information.	

INSTALLATION INSTRUCTIONS

Step 1 - Pre-Installation Evaluation

- Before installing the system, thoroughly assess the roof deck and supporting structure to confirm that they are fit for purpose.
- Accurate placement of the anchor is essential to prevent the risk of a pendulum-type fall. Use the installation checklist to guide your evaluation of all key criteria.
- **Important:** If any element of the assessment does not meet the specified requirements, do not proceed. Contact the manufacturer to discuss alternative solutions.



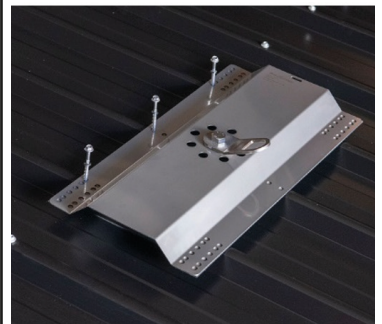
Step 2 - Site Preparation

- After confirming the anchor location, prepare the roof area accordingly. Remove any roof screws if necessary, and identify which hole alignment on the anchor plate best matches the roof crest spacing.
- Clean the installation area thoroughly with a clean rag to ensure a secure and weatherproof seal.

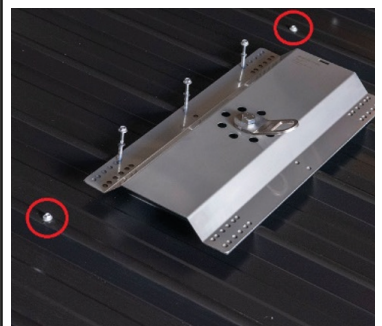


Step 3 - Initial Anchor Fixing

- Position the anchor plate over the selected location and secure it to the purlin using two 14-gauge screws through the roof sheeting
Use only the top 3 holes of the plate for these fixings, as shown in the image.



- **For Klip-type roof sheeting**, install 2 additional 14-gauge screws into a purlin on the ridge on either side of the anchor plate. The anchor must also be installed across 2 roof sheets and the sheets must be attached to at least 5 purlins/ battens.



INSTALLATION INSTRUCTIONS

Step 4 – Drill Remaining Anchor Points

- Using an 8 mm drill bit, drill the remaining nine holes through the roof sheet at the designated anchor plate positions.
- Carefully remove all swarf (metal shavings) to prevent future staining or corrosion.



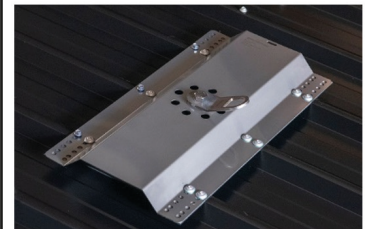
Step 5 – Rivet Installation

- Insert 8 mm bulb-type rivets into the pre-drilled holes. Apply firm downward pressure during installation to ensure full engagement and proper sealing of each rivet.



Step 6 – Labelling & Final Inspection

- Affix an installation label to the anchor plate (or a suitable access point) and clearly complete all required information.
- Ensure that all swarf is completely removed from both the anchor and the surrounding roof deck to prevent surface damage or rust over time.



SYSTEM MAINTENANCE

Please read before completing the checklist.

- Surface-mounted anchors must be inspected and recertified at least every 12 months by a competent height safety inspector when installed in non-corrosive environments. In corrosive or high-exposure conditions, more frequent inspections may be required. The appropriate interval should be determined based on environmental factors by a qualified inspector.
- Do not use acids or chemical agents to clean the anchor system, as these substances may compromise the integrity of its components.
- The anchor eyelet is a wear point that may degrade over time with frequent use. If significant wear is observed, the anchor must be removed from service and replaced.
- A completed identification label must be affixed to the anchor system, indicating its certification, maintenance history, and recertification status.
- Any visible damage or signs of deterioration in either the anchor system or associated equipment must be promptly reported to the responsible workplace authority. Appropriate corrective measures should be taken without delay.
- All maintenance inspections must be thoroughly documented. If any non-compliance is found, the affected item must be clearly marked as 'Do Not Use' and remain out of service until repairs or recertification are completed by a competent person.
- All associated equipment—such as harnesses, lanyards, and connectors—must be properly maintained and stored in a clean, dry environment. Keep gear away from acids, direct sunlight, and UV exposure, which can weaken textile components and reduce their service life.

ANCHOR MAINTENANCE CHECKLIST

The following checklist outlines the essential criteria that must be reviewed to confirm the anchor system is safe for continued use. If any issues are identified that are not specifically listed on the checklist, they must be recorded in the inspection report and immediately brought to the attention of the building manager.

A result marked as PASS – YES (Y) indicates that the item meets the required inspection standards and is considered fit for use until the next scheduled recertification. The system's data plate must be updated to reflect both the current inspection date and the next due inspection.

A result marked as PASS – NO (N) signifies that the item does not meet the specified requirements. Such items must be clearly labelled 'Do Not Use' and corrective actions must be taken without delay. All non-compliant findings must be thoroughly documented in the inspection report.

Note: This system must only be inspected and maintained by a competent height safety inspector who is trained and authorised in the proper use and servicing of this anchor type.

Inspection Requirement	Pass	Fail	Corrective Actions	Date of Inspection
Correct number of fixings and fixing type are visible (3 × 14-gauge Tek screws in the top holes of the plate + 9 × 8 mm bulb rivets)				
Fixings are secure and show no signs of corrosion or deformation				
Ensure that the fixing securing the ring to the plate is free from corrosion and that the nut is locked in place				
Check that the attachment ring rotates freely				
An installation label is attached to the anchor or at a suitable access point.				
Information on the installation label is complete and legible				
The roof surface is in good condition and free from corrosion or deformation				

WARRANTY INFORMATION

The warranty period on this system anchor is 3 years from the date of purchase.

Should you have a warranty claim because of a defect, the following information must be provided:

- The anchor code number
- The date of purchase/installation
- Installer details
- The anchor batch number
- The name and location where the anchor is installed
- A description of the defect/warranty claim
- The previous inspection report

The above information can be forwarded to sales@skylotec.com.au or provided via phone on +61 47 213 337.

Terms and Conditions

All warranty claims must be submitted in writing within 14 days of identifying the fault or defect.

Warranty coverage will be void if the product has been installed incorrectly or by an installer who is not properly accredited.

This warranty does not extend to roofing materials or penetration seals.

Anchors must be maintained in strict accordance with both the manufacturer's guidelines and relevant legislative requirements. Failure to do so will render the warranty void.

Use of the anchor system by unqualified personnel or in conjunction with incompatible equipment—such as non-compliant harnesses, lanyards, or fall arrest devices—will also invalidate warranty coverage.

Warranty protection does not apply where anchors have been used for applications outside their intended purpose.

Normal wear and tear from regular use is expected and is not covered under this warranty. The rate of wear will vary depending on usage frequency.

LIMITATION OF LIABILITY

All instructions, recommendations, diagrams, and technical documentation provided by SKYLOTEC are protected by copyright and must be read thoroughly and followed precisely. While guidance may be offered in good faith, it is provided without liability, and SKYLOTEC cannot be held liable for any errors, omissions, or misinterpretations.

Failure to adhere to the specified installation requirements and safety warnings could result in severe injury or fatality. SKYLOTEC disclaims any direct, indirect, or consequential liability arising from incorrect installation or certification of its products or systems.

SKYLOTEC does not guarantee the structural suitability or condition of the surfaces or buildings to which its products are attached. A detailed assessment by a qualified structural engineer is required, unless a competent person has verified the adequacy of the structure in accordance with industry standards.

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