



SAYFA
PROTECT

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SAYFA.COM.AU

PROPRIETARY FALL ARREST SYSTEM FOR SAFE WORK AT HEIGHT

⚠️ MUST BE READ AND UNDERSTOOD PRIOR TO USE

SYSTEM OPERATION

MANUAL



3 SIXTY® ANCHOR

Sayfa Group leads the industry in the design, installation and management of access and fall protection systems.

The In-Action model demonstrates access and fall protection requirements for a commercial building design.

Sayfa Group recommendations fulfill current workplace requirements for the safety of building maintenance subcontractors, employees and the general public.

#	DESCRIPTION	
1	3 SIXTY	Fall arrest anchors
2	TRAVEL 8	Roof or wall mount static lines
3	SENTRY	Roof mount guardrails
4	ON-TRAK	Roof walkways (yellow or grey)
5	PROTEX	Skylight protectors
6	RAPTOR	Overhead fall arrest rails

#	DESCRIPTION	
7	KATT	Ladder supports
8	VISTA	Modular fold down ladders
9	KOMBI	Stairs & platforms
10	ALTO	Step ladders & bridges
11	SKYDORE	Roof access hatches

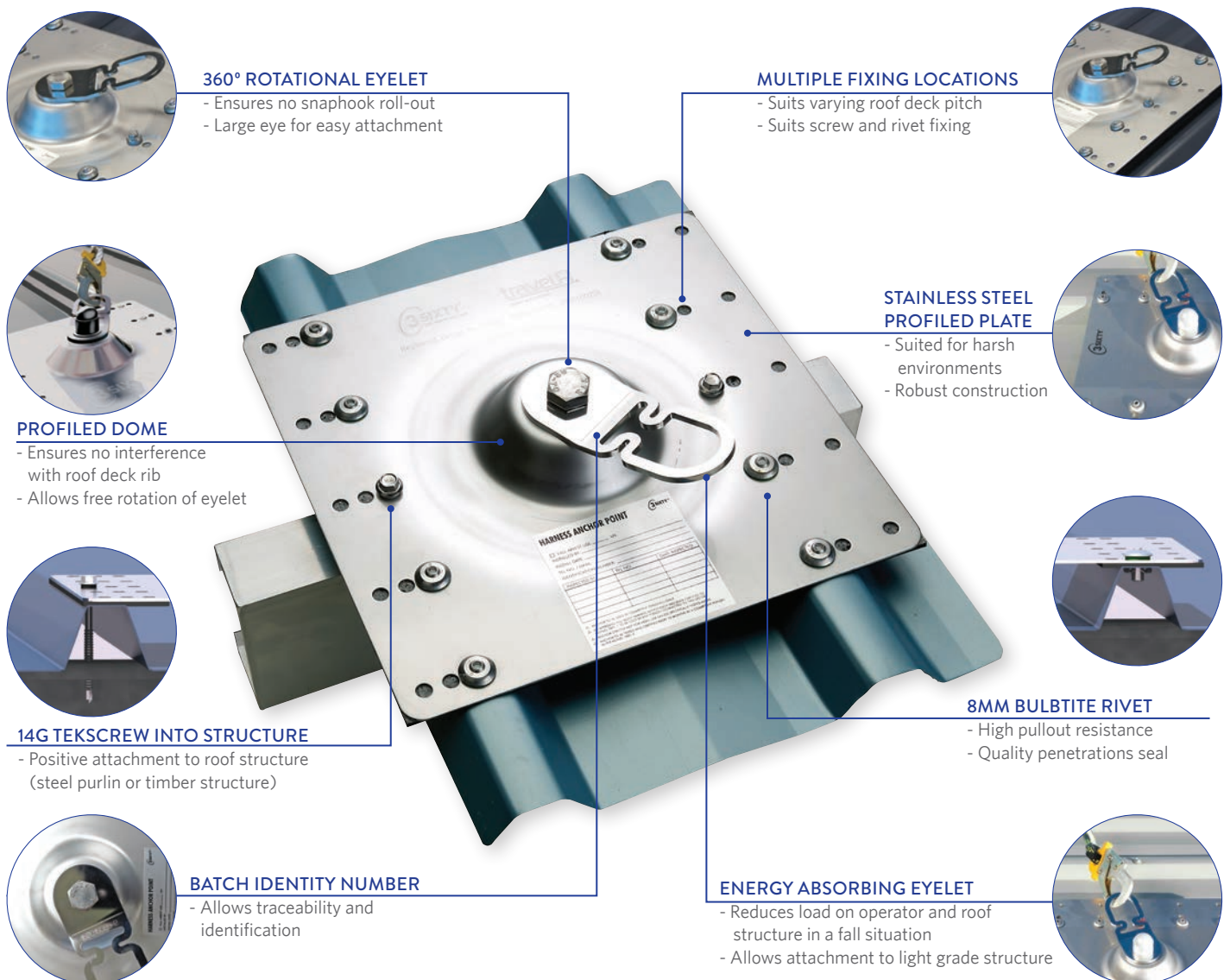
For more information, please contact Sayfa Group directly.



IT'S THE SAYFA WAY

3 SIXTY® FOR PERSONNEL WORKING AT HEIGHT WHO USE A HARNESS AND LANYARD FALL PROTECTION SYSTEM

FEATURES & BENEFITS



UNIQUE PRODUCT FEATURE

360° TOP MOUNT ANCHOR

FOR MULTI-DIRECTIONAL USE

The rotational deforming eyelet provides significant load reduction in a fall situation, minimising injury to the operator as well as excessive impact loads to the anchor structure. As a result, performance on lighter structures is enhanced whilst allowing maximum install flexibility.

PATENTS AND DESIGN REGISTRATIONS APPLY



OPERATION

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 workplace 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.

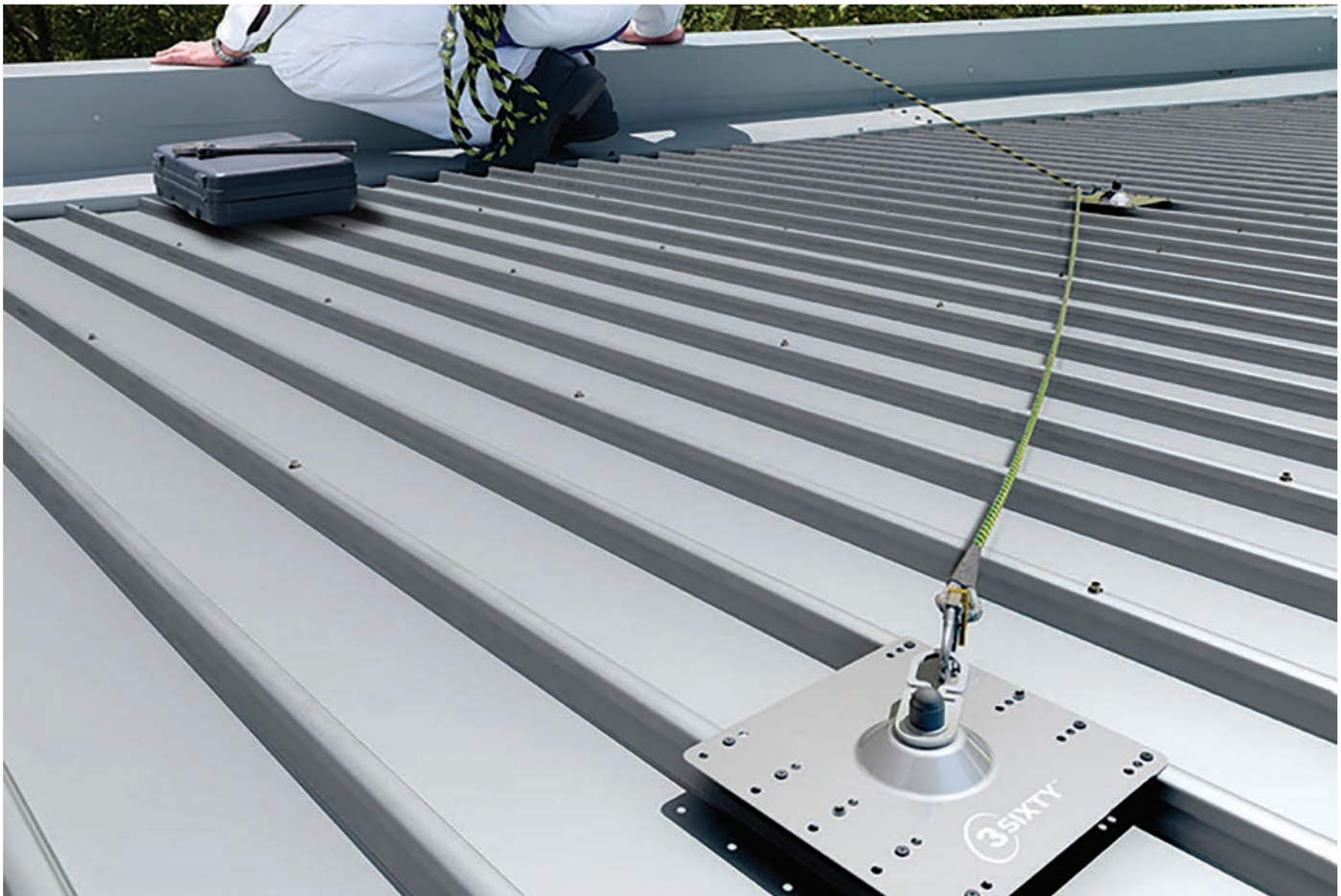


LIMITATIONS

MUST BE READ PRIOR TO USE

1. The 3Sixty anchor is suitable for single (1) person use and rescue in the case of a fall incident. (15kN)
2. 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.
3. 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.
4. Operators of this system must be connected via a lanyard with a personal energy absorber, in accordance to Australian Standard AS/NZS 1891.1.
5. This anchor is only intended for single person fall arrest use. This anchor is not suitable for abseil use.
6. Where slopes exceed 40°, the 3 Sixty anchor must not be used as the energy absorbing eyelet may deform under constant load. The Sayfa AP141 Xplora rope access anchor is recommended for this application when using a work positioning system with a safety rope line.
7. Do not exceed maximum number of users/persons per system. See specific system data plate for user configuration.
8. Do not tamper with system components.
9. This system is not to be used for tethering or lifting machinery or equipment.
10. The safety system must be recertified by a competent height safety inspector as recommended:
 - Non corrosive/mild environment – 12 monthly
 - Corrosive/harsh environment – 6 monthly (more frequent inspection may be required)

⚠ Sayfa 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

Ensure a full body harness and suitable rope line lanyard is used with this system.

- ⚠ **Harness gear must be certified to Australian Standards AS/NZS 1891.1.**
- ⚠ **Harness gear must be used with a tear-web energy absorbing lanyard connected to fall arrest point of harness.**
- ⚠ **Ensure harness gear serviceability dates are current.**



MULTIPURPOSE FALL ARREST HARNESS - HR 003



15M ROPE LINE WITH LENGTH ADJUSTER - HR 011



22KN SCREWGATE KARABINER - HR 030



ENERGY ABSORBING LANYARD WITH KARABINERS - HR 020

STEP 2

Approach anchorage system from a 'Safe Zone' i.e. no risk of fall or injury.



STEP 3

Inspect anchorage device for any damage or deterioration and check the device has been serviced and recertified.

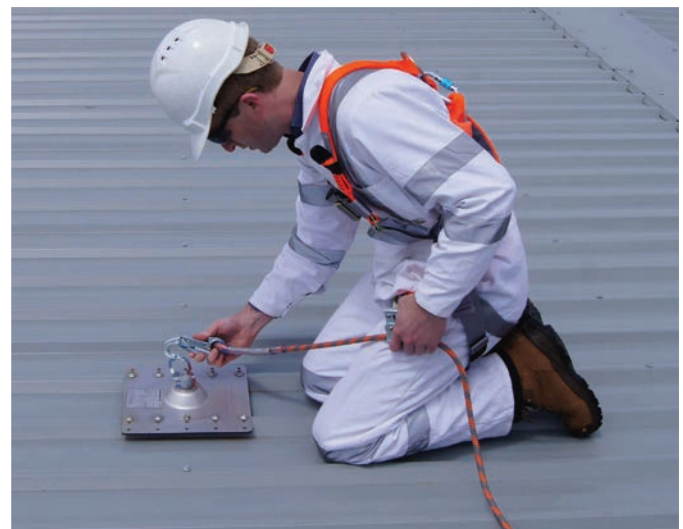
- ⚠ **Do not use if current date exceeds due service date.**



STEP 4

Attach rope line lanyard to anchorage device and adjust rope line length evenly in the shortest distance to the fall edge.

- ⚠ **Ensure there is NO slack rope line.**



SAFE USE PROCEDURE

STEP 5

Ensure there is NO possibility of a pendulum fall from the fall edge.

⚠️ **User must remain in restraint at all times. Limit access beyond the fall edge by correctly adjusting the rope line adjuster and do not allow slack in rope line.**



STEP 6

Use diversion anchors to access corners or possible pendulum areas. Attach rope line to diversion anchorage using karabiner.



STEP 7

Harness equipment must be stored in protective carry bag provided and kept in a dry environment.

⚠️ **Any damage to harness gear or anchorage system during use MUST be reported to the workplace manager and removed or tagged 'Out of Service' until by competent height safety inspector.**



STEP 8

Proceed safely back to the roof access point.

⚠️ **Follow the company reporting procedure on completion.**



SAFE USE PROCEDURE

CORRECT ROPE LINE LENGTH

Rope line length must limit access beyond the fall edge.



INCORRECT ROPE LINE LENGTH

Slack rope line between user and anchor will result in a fall and could cause severe injury or death.



MAINTENANCE

1. The 3Sixty anchor system 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. The energy absorbing eyelet is subject to wear depending on frequency of usage. Any signs of excessive wear will require the anchor to be replaced.
4. The identification label must be completed confirming certification, maintenance and recertification of the system.
5. 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.
6. Any deterioration or damage to the system or equipment must be reported to person in control of the workplace and relevant corrective action undertaken.
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

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.**

SYSTEM MAINTENANCE CHECKLIST

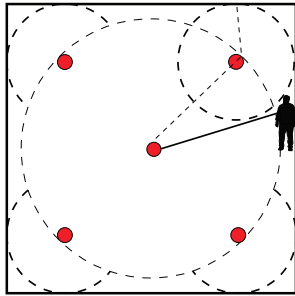
COMPONENT	INSPECTION CRITERIA	PASS Y / N	CORRECTIVE ACTION	COMPLETION DATE
	Fixings to structure secure (min. 2 fixings to purlin, 8 fixings to roof deck)			
	Screws into structure must be verified by removing and checking if uncertain			
	Fixings to roof deck structure secure			
	No evidence of penetration seal deterioration			
	Ensure eyelet fixing connection to plate is secure, maximum 5mm play between eyelet and plate.			
	No evidence of eyelet damage or deformation			
	Ensure eyelet rotates freely			
	Data label attached and clearly visible			
	All relevant data filled out including last maintenance date			
	Roof deck quality in good condition i.e. no visible rust or roof deterioration.			

 **A record of system maintenance, recertification and repairs must be kept by the workplace manager.**

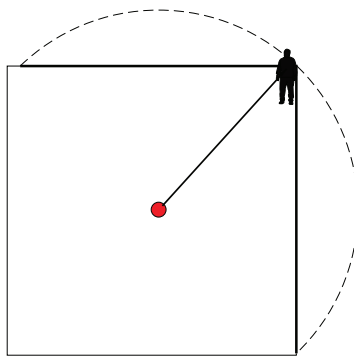
NOTES

ANCHOR POSITIONING

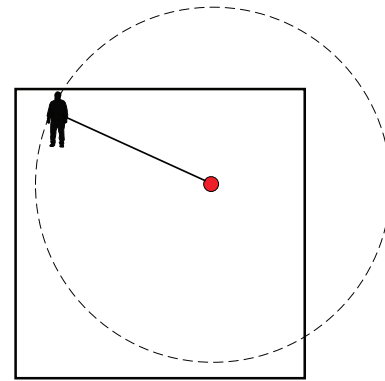
⚠️ **Correct anchor positioning and rope length is critical to avoid pendulum effect**



Correct anchor positioning and rope line length



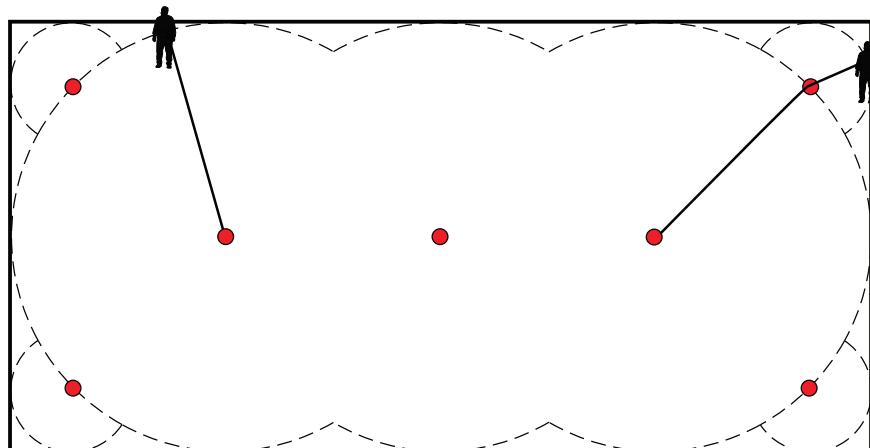
Incorrect rope line length, operator could pendulum fall off roof



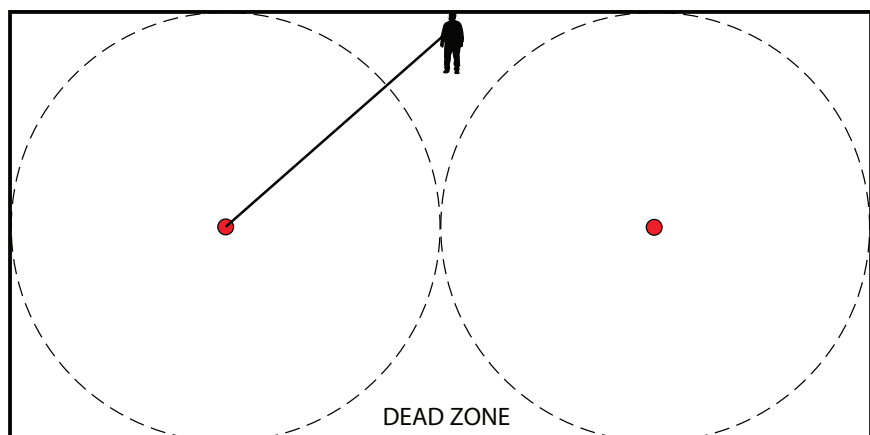
Incorrect anchor layout allows dangerous pendulum fall off roof



Correct anchor layout and rope line length with anti-pendulum corner anchorages



Insufficient anchorages cause large dead zones requiring extended lanyard length which allows dangerous pendulum fall possibilities



TECHNICAL

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 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). Karabiners supplied with proprietary systems must not be removed or substituted with any other component.

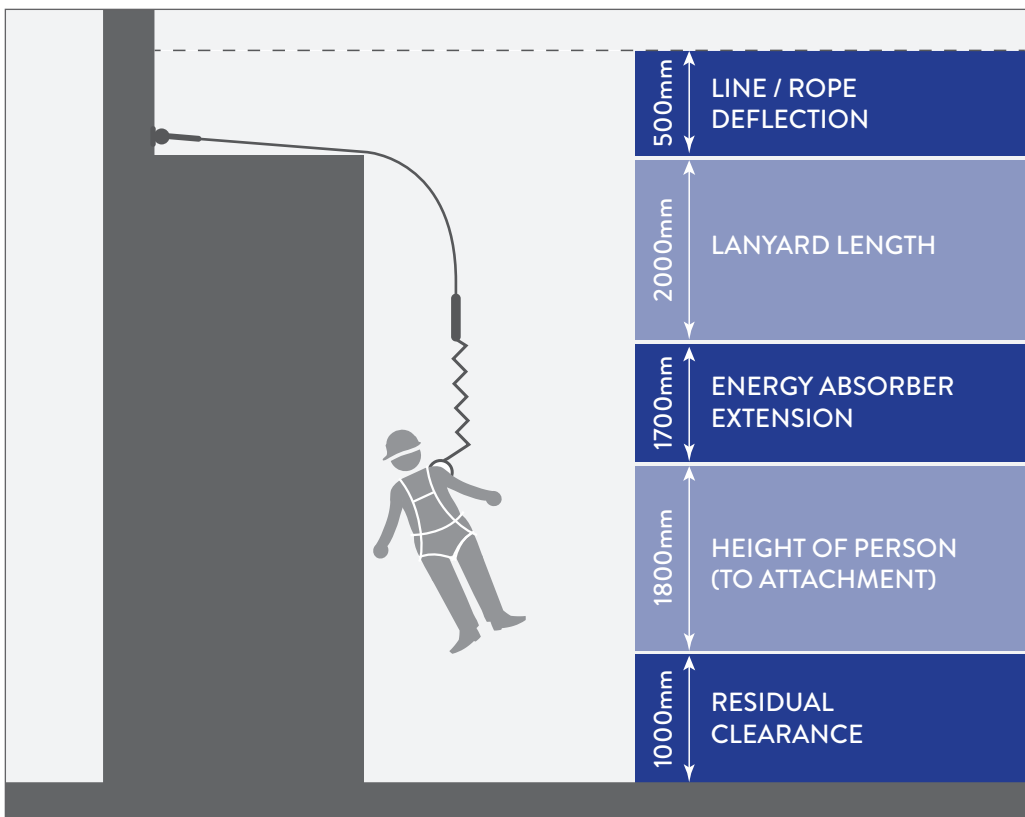
INSPECTION AND MAINTENANCE

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 Standard AS/NZS1891.4:2009 Section (9).

IMPORTANT NOTE

Failure to supply and/or install Sayfa proprietary products in accordance with above standards and codes, specifications and instructions voids complete system certification and/or warranty.

FALL DISTANCE CALCULATOR (To be used as a guide only)



WARRANTY

WARRANTY PERIOD ON THIS SYSTEM - 10 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@sayfa.com.au or contact technical
helpline, 1300 301 755.

NEVER HAS SAFETY IN THE WORKPLACE HAD A HIGHER PRIORITY

TERMS & 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 Sayfa system installer will void all warranty rights.

Systems that have been installed using non proprietary equipment will void all warranties.

System roof/cladding 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.

DISCLAIMER

All product specifications and technical descriptions, recommendations and other information provided, are given as general guidance and advice, and are to be read in conjunction with Sayfa Group installation instructions and any other data available and applicable to each particular standard product or system. Use of such data is however the user's sole responsibility, taking into account the intended application and actual conditions existing on the particular worksite. Consequent selection of the right product for any particular use, remains the user's ultimate responsibility. Sayfa Group is therefore not obligated or liable for any direct or indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of the suitability and use of or otherwise, any product or system for any purpose. Implied warranties of merchantability or fitness for any particular purpose, are specifically excluded.

All Sayfa Group products must be installed and used by competent personnel trained in the selection, safe use and maintenance of fall arrest systems and equipment by a registered training organisation (RTO) Installation not in accordance with Sayfa Group requirements or the use of non Sayfa Group components will void all certification and warranties.

Suitability of support structure and design layout of system is the responsibility of the installer and should be verified by a competent person trained by a Registered Training Organisation (RTO) in the selection, safe use and maintenance of fall arrest systems and equipment or approved by a structural engineer to ensure conformance.

Sayfa Group maintains a policy of continuous improvement and development, and therefore reserves the right to modify, amend or otherwise alter product and system designs and specifications, models and part numbers, colours and pricing etc without prior notice. Errors and omissions are excepted, and Sayfa Group accepts no liability for incorrect information, errors or omissions.

TECHNICAL SPECIFICATION

SYSTEM CODE

3 SIXTY FALL ARREST ANCHOR
AP100

TECHNICAL DATA

MATERIALS

- Base plate – profiled stainless steel
- Swivel eye – profiled stainless steel

DIMENSIONS

- Total height – 50mm
- Overall size – 290mm x 285mm

WEIGHT

- 1.05kg (excludes fixings)

FIXINGS

- Timber fixing – 14g/ 75mm type 17 Tek screws
- Metal purlin fixing – 14g/ 75mm self drilling Tek screws
- Metal roof deck fixing – 8mm structural Bulbtite rivets
(Refer instruction manual)

WORKING LOAD LIMIT

Single person use

- Support structure integrity, suitability and fixing method to be assessed and determined by a competent person prior to installation.
- 3 Sixty Anchor Point must be used in conjunction with an approved harness and lanyard system incorporating an energy absorber.

COMPLIANCE

3 Sixty Anchor Point is designed and manufactured in accordance with requirements of Australian Standard AS/NZS 1891.4:2009 and AS/NZS 5532:2013 and relevant statutory OHS Codes of Practice/Guidelines.

TESTING

Testing and performance based on requirements of Australian Standard AS/NZS 5532:2013.

- Dynamic load tested – 15kN
- Static load tested – 15kN

PRODUCT WARRANTY

10 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 height safety system inspector in accordance with manufacturer's specifications and requirements of Australian Standard AS/NZS 1891.4:2009 Section (9).
(Refer instruction 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.

SYSTEM OPERATION
MANUAL





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THE SAYFA GROUP

WE SAVE LIVES!

This is our Mission, and it drives our Vision to BRING EVERY WORKER HOME SAFELY.

Sayfa Group leads the industry in the design, installation and management of access, fall protection and ground safety systems. As an Australian owned company, we engineer and rigorously test our proprietary systems to exceed national and international standards. Simple installation and easy to use systems are our key drivers for ensuring maximum effectiveness, improved safety and compliance with Occupational Health and Safety standards in the workplace.

OUR VALUES

We are governed by the following principles in everything we do:

- A - Accountability / Totally responsible and answerable for our actions.
- L - Loyalty / Steadfast and dependable based on our values in our dealings with one another.
- I - Integrity / Honest and sincere, we do what we say, on time every time.
- V - Value Driven / Increase what's of value in view of a win win plan for all.
- E - Enthusiastic / Motivated and inspired to continuously perform better.

COMMITMENT

We are passionate about our work with every product a testament to our commitment of world class safety, quality and performance. Our obligation is to live up to our own high standards as well as those of our customers and stakeholders ensuring total peace of mind.



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