ARRESTA®

VERTICAL STATIC LINE

SAYFA PROTECT
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SYSTEM CONTENTS

PROPRIETARY FALL ARREST SYSTEM FOR SAFE ACCESS & EGRESS

SYSTEM OPERATION MANUAL

⚠ MUST BE READ AND UNDERSTOOD PRIOR TO USE

ARRESTA® FALL ARREST SYSTEM

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

The In-Action model demonstrates access, fall and ground 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	Modular fixed ladders
8	VISTA	Modular fold down ladders
9	ALTO	Step ladders & step bridges
10	ALTO	Stairs & platforms
11	MODDEX	Handrails & balustrades
12	SKYDORE	Roof access hatches

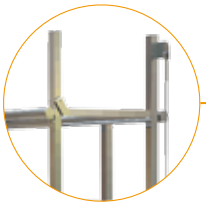
For more information, please contact Sayfa Group directly.

IT'S THE SAYFA WAY

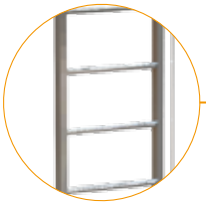
ARRESTA® FOR PERSONNEL ACCESSING HEIGHTS USING A HARNESS & FALL ARREST LADDER PROTECTION SYSTEM

FEATURES & BENEFITS

SWAGE END TERMINAL
Secure connection of cable to ladder attachment points

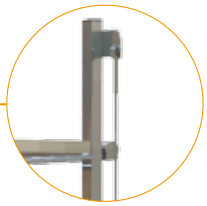


LADDER HEAD SAFETY BAR
Provides secure barrier at top of ladder once disconnected from the system



LADDER SECTION
High strength aluminium ladder body

CABLE TENSIONER WITH LOCKING SCREWS
Ensures controlled tensioning of cable

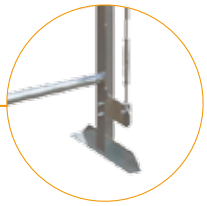


TOP ATTACHMENT BRACKET
Provides cable attachment point at top of ladder

⚠ **Cable end terminal must be crimp or roll swaged to arrest a fall load of 15kN.**

VERTICAL LINE FALL ARRESTOR WITH ENERGY ABSORBER
Provides secure attachment whilst ascending and descending ladder

STAINLESS STEEL CABLE
Cable to which Arresta shuttle attaches



LOWER ATTACHMENT BRACKET
Provides cable attachment point at base of ladder

UNIQUE PRODUCT FEATURE

VERTICAL LINE SHUTTLE

FOR CONSTANT FALL PROTECTION

A carefully engineered system operating under the force of gravity, activates once the shuttle is no longer restrained. Spring loaded cams instantly lock onto cable immediately arresting a slip or fall.

PATENTS & DESIGN REGISTRATIONS APPLY

OPERATION

MUST BE READ PRIOR TO USE

1. Prior to use, ensure all operating procedures have been read and 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 OH&S 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 devised and be ready to be implemented prior to usage of a 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 energy absorber certified to Australian Standard AS/NZS 1891, to be used with this system.
8. Visually inspect the system for damage prior to use. System must not be used if there is any deterioration or deformation of any components or 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 and 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, OHS Acts & Regulations, and Codes of Practice & Guidelines must be read and obeyed when using this safety system.
13. This user manual does not in any way, replace the need for completion of a recognised height safety training course by a Registered Training Organisation (RTO).

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

LIMITATIONS

MUST BE READ PRIOR TO USE

1. 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.

2. 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.

3. This system to be used with the Arresta shuttle only. Operators of this system must be connected via a lanyard with a personal energy absorber, in accordance to Australian Standard AS/NZS 1891.1.

4. The Arresta system is for single person use only.

5. Once at the top of the ladder, the operator must only detach from the system once safely behind the ladder safety bar and there is no risk of a fall.

6. Do not tamper with system components.

7. This system is not to be used for tethering or lifting machinery or equipment.

8. 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. Should any part of the system/equipment have been subjected to abnormal loading, use must be discontinued until replaced or recertified by a competent height safety inspector.**

SAFE USE PROCEDURE

STEP 1

Ensure a full body harness with front fall arrest loops is used with this system.

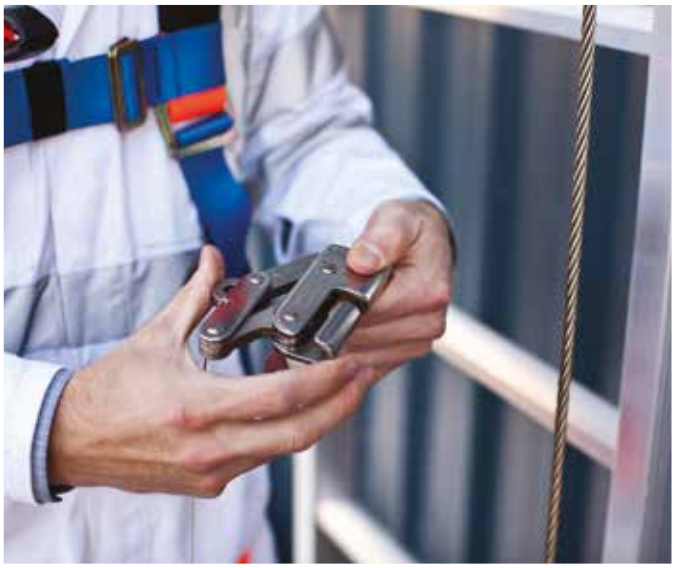
⚠ **Harness gear must be certified to Australian Standards AS/NZ 1981.1.**

⚠ **Arresta system must be used with a tear-web energy absorbing lanyard connected to fall arrest front loops harness.**

⚠ **Ensure harness gear and Arresta system serviceability dates are current.**

STEP 2

Remove karabiner from shuttle unit and push Arresta shuttle cam to the upward limit.



STEP 3

Turn Arresta shuttle onto it's side and insert cable into horizontal port.

STEP 4

Return Arresta unit to vertical position which will locate shuttle onto cable.

⚠ **Ensure indicator arrow on shuttle is pointing upwards.**

SAFE USE PROCEDURE

STEP 5

Lock Arresta shuttle onto line by inserting karabiner. Ensure karabiner screw gate is locked.

STEP 6

Attach energy absorber from Arresta shuttle onto front loops of harness. Ensure karabiner screw gate is locked.

STEP 7

Check the Arresta shuttle is functioning correctly and all karabiner screw gates are secure.

STEP 8

Climb ladder using care at all times.

SAFE USE PROCEDURE

STEP 9

Once safely at the top of the ladder only detach from the Arresta system once safely behind the ladder safety bar and there is no risk of a fall.

STEP 10

When descending the ladder, keep body close to the ladder allowing shuttle to descend freely.

If shuttle locks whilst descending, release unit by lifting the cam and lowering the shuttle.

STEP 11

Remove the shuttle unit from the cable on completion by reversing the process, steps 2 to 6.

⚠ **Any damage to harness gear or static line system during use MUST be reported to the work place manager and removed or tagged out of service until recertified by a competent height safety inspector.**

⚠ **Follow the organisation procedures on reporting completion of work.**

MAINTENANCE

1. This 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 specialist depending on severity of surrounding conditions.)

2. Never clean using acids or other chemicals that could damage the system components.

3. The cam pivot points on the Arresta shuttle should be lubricated using a dry graphite lubricant, NOT oil which will attract dirt.

4. The stainless steel cable must be cleaned and then coated with a dry graphite lubricant.

5. The identification/certification label must be completed confirming maintenance and recertification of the system.

6. 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.

7. Any deterioration or damage to the system or equipment must be reported to the person in control of the workplace.

8. 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

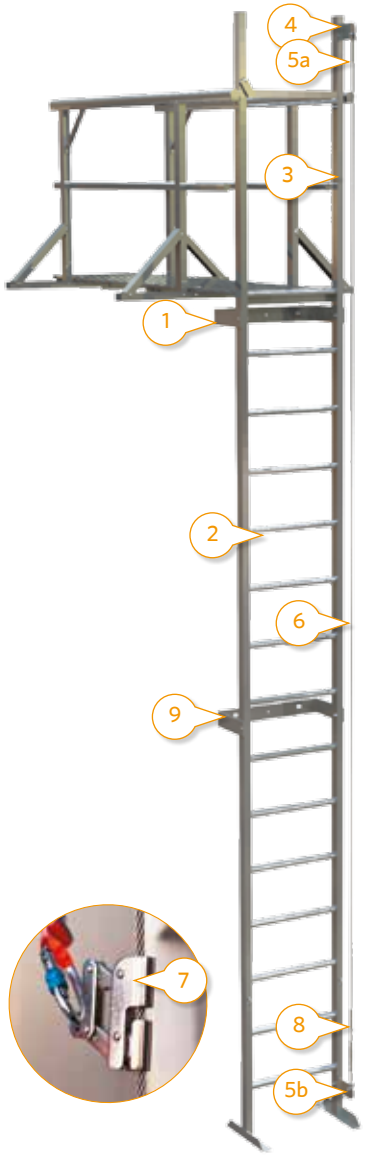
The checklist below outlines key checking criteria required to ensure the safe use of this system. Any item of concern not shown on the checklist must be noted on the maintenance report and brought to the attention of the workplace manager.

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
	1. Must be no deterioration of ladder fixing bracket integrity to support structure and ladder fixing			
	2. Must be no visible deterioration or damage to ladder			
	3. Must be no deformation of vertical static line stile extension or evidence of excessive load			
	4. Must be no evidence of stress in static line vertical attachment bracket or deterioration of connection to ladder			
	5a/b. Must be no evidence of slippage or deterioration of cable connection to line attachment bracket (top and lower connection) ⚠ **Crimp or roll swage terminal must be connected at the top of the ladder and the tensioner with locking screw at the base.**			
	6. Must be no evidence of wear, cuts, corrosion or fraying of cable			
	7. Must be no evidence of system shuttle wear, distortion, malfunction or energy absorber deployment			
	8. Cable must be tensioned correctly and free from dirt and grime			
	9.All ladder fixings must be sufficiently tensioned			

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

NOTES

REF:		COMMENTS:

NOTES

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.

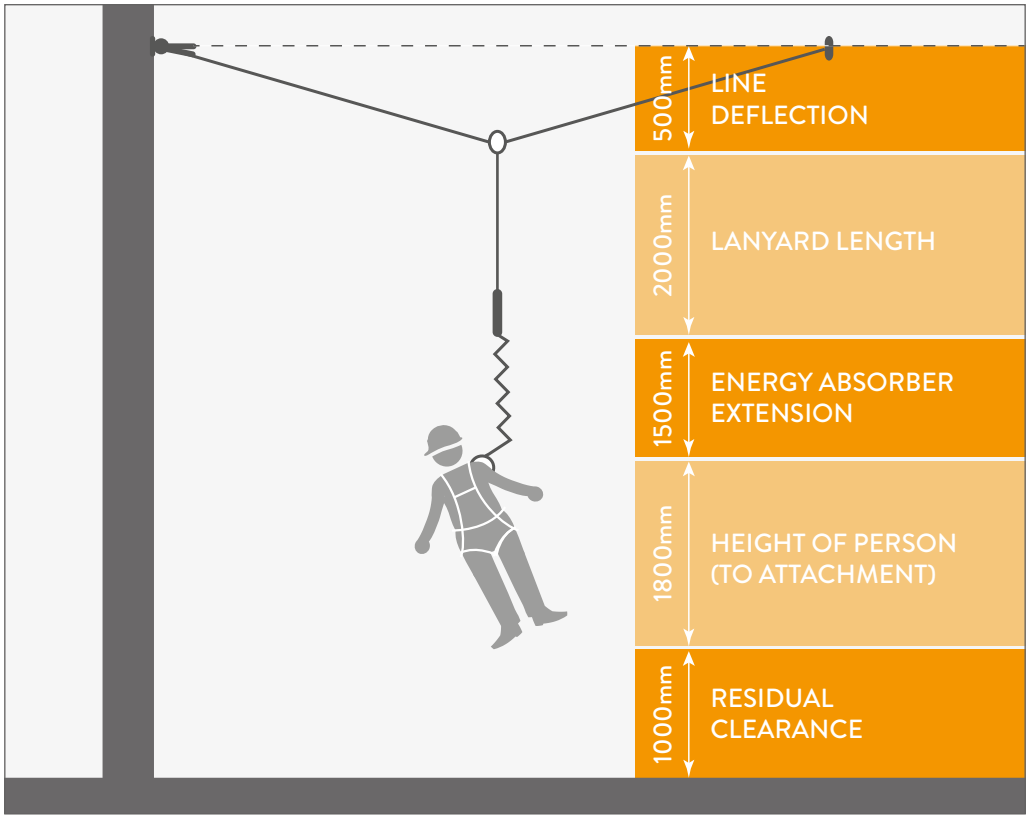
INSPECTION AND MAINTENANCE

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.

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.

NEVER HAS SAFETY
IN THE WORKPLACE
HAD A HIGHER PRIORITY

TECHNICAL SPECIFICATION

SYSTEM CODE	ARRESTA VERTICAL STATIC LINE SL 200
TECHNICAL DATA	**MATERIALS** - Arresta Shuttle – stainless steel (316) - Energy absorber lanyard – polyester webbing - Vertical line cable – stainless steel (316) - Cable end terminations – stainless steel (316) **DIMENSIONS** - Arresta Shuttle – 100mm (L) 44mm (W) to suit 8mm cable - Energy absorber – 130mm (static length) 400mm (deployed length) in the event of a fall - Vertical line cable – 8mm (7 x 7 strand) **WEIGHT** - 0.90kg (Arresta shuttle including energy absorber) **WORKING LOAD LIMIT** - For single person use – 6kN rated (in conjunction with energy absorber lanyard device) - Ladder integrity, attachment method to support structure and structure integrity to be assessed and determined by a competent person prior to installation - Arresta Vertical Line Fall Arrest System must be used in conjunction with an approved harness system incorporating an energy absorber
COMPLIANCE	Arresta Vertical Line Fall Arrest System is designed and manufactured in accordance with requirements of Australian Standards AS/NZS 1891.3:1997, AS/NZS1891.4:2009 and relevant statutory OHS Codes of Practice/Guidelines
TESTING	Testing and performance based on requirements of Australian Standard AS/NZS1891.3:1997. - Dynamic load tested – 12kN - Resultant load on structure – 5.85kN
PRODUCT WARRANTY	10 years from date of purchase subject to correct installation, use and maintenance in accordance with manufacturer's specifications and recommendations. (Refer instruction manual.)
INSPECTION AND MAINTENANCE	Inspection and certification 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. (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.

Designed and manufactured by Sayfa Group. For all technical assistance contact Sayfa Group. SAYFAGROUP-28.3.2015

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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.

QAS INTERNATIONAL
ISO 9001:2008
REGISTERED FIRM

THE SAYFA GROUP CONSISTS OF:

SAYFA ACCESS SAYFA PROTECT SAYFA EQUIP