A-SAFE

PERSONAL PROTECTIVE EQUIPMENT

Height Safety Solutions
Height Quality Standards

www.asafeppe.com

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Contents

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Sit Harness

Adventure Sit Harness- the Sturdy & Zippy Harness Specially designed keeping in mind the needs of mountaineers and adventure geeks.

SH451
Sit Harness

Attachment Elements
- 2 Lateral Metallic D-Rings for Work Positioning. 1 front waist attachment Metallic D-Ring for rope access

Convenience
- Ideal for Work Positioning Restraint System and Rope Access work

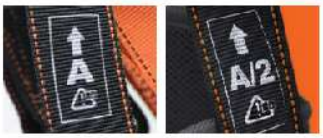
Ergonomics
- The waist belt and the leg straps are provided with a soft padding for best possible comfort

Ref.No.	Material	Comformity	Application	Weight	Adjustability
SH 451	Polyester	EN 358:1999 EN 813:2008	WP + RA	1270 gms	Adjustable thigh straps & Waist Belt

Full Body Harnesses

A Full Body Harness is the ideal body wear that should be worn by a worker, since it distributes the force of impact incurred in the event of a fall evenly on the thighs and torso region of the body.

The material of construction of the webbing of A-SAFE Harnesses is Polyester. Since this has the least elongation properties as compared to other materials, the Harness does not stretch dangerously when subjected to a fall. The wearer hence does not risk slipping out of the harness.

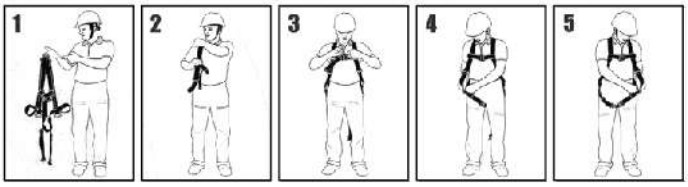


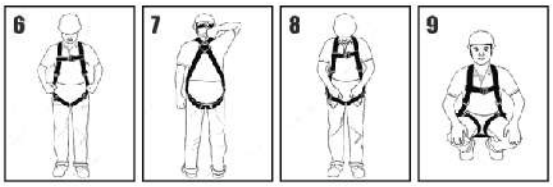
Attachment Points on the Harness:
The Labels marked as "A" denote the attachment points on the harness. In certain areas the labels are marked "A/2" meaning that two similar points held together shall constitute a single attachment point.

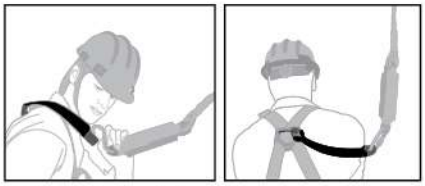
The Tell-Tale Indicator is a small label stitched to the back side of the shoulder strap, and it flies out of the harness in the event of a fall. All A-SAFE Harnesses are supplied with Tell - Tale indicator as a Standard features.

A-SAFE Adventage
All A-SAFE Harnesses are made of Dope-Dyed high tenacity Polyester Yarn, imparting increased resistance to UV colour degradation

HOW TO WEAR A HARNESS
THE HARNESS CAN BE WORN FOLLOWING THESE SIMPLE STEPS







This Extension Band allows the user to easily connect to or disengage from himself the dorsal attachment D-Ring without any external help.

Before wearing a Harness it is important to inspect the Harness for certain features-
- Hold the Harness by the Back D-ring, and allow the straps to fall in place. the Harness has clear and separate colour for the shoulder and thigh straps, for them to be easily distinguished.
- Inspect the Harness webbing for any cuts, burns or damages.
- Check the stitches for their continuity.
- Carefully look for any evidence of corrosion on the metal parts.
- A-SAFE Harnesses also give an assurance that the Harness has not been subjected to a fall, if the unique Tell - Tale Indicator is still secure on the shoulder straps.

Full Body Harnesses

REVOLTA Series

A-SAFE Revolta series of Harnesses and Lanyards are constructed from a unique polyester webbing, incorporating special Repel Technology- a specialized coating which repels oil, dirt and water.

Webbing used in making of Revolta series of Harnesses is treated with special coating, which repels dry soil and other spills and splashes. It also allows liquids to bead up and roll off the surface due to changes in surface tension. Coating does not impact weight, feel ,colour and texture of the webbing. Liquid spills can easily be wiped away when blotted with a clean cloth, and dry soil can be brushed off easily.

The Unique Features of Revolta Range are:

Webbing is Oil and Dirt repellant- hence provides excellent resistance from build up of oil and dirt.

Forged Aluminium D-rings and Stainless Steel connections provide excellent corrosion resistance and make the Harness light in weight for better usability.

Highly Tear and Cut Resistant because does not allow abrasion due to collection of dust or dirt.

Highly UV Resistant Webbing.

Easy maintenance- wipes clean in seconds.

Ideal choice for a variety of applications like- Petrochemical Industry, Paint, Water Treatment, Food Processing, Off-Shore and General Industry.

Full Body Harnesses

NoSpark Series

The revolutionary NOSPARK Range of Harnesses & Lanyards offered by A-SAFE are antistatic in nature and are ATEX Certified.

They have been designed to offer the perfect solution for safe working at height in potentially explosive atmosphere.

The Unique Features of NoSpark Range are:

- Forged Aluminium Dorsal D-ring for Fall Arrest
- Stainless Steel Buckles for excellent Corrosion Protection
- Webbing made of Antistatic Material prevents the risk of build up of charge
- The Antistatic components of this range prevent the risk of an Electrostatic build up and sudden discharge, igniting the explosive atmosphere.
- Adjustable Shoulder Straps
- Front attachment textile loops for Fall Arrest
- Elastic loops equipped with antistatic thread
- Adjustable Thigh Straps

ATEX 2014/34/EU EN ISO 80079-36:2016 and EN ISO 80079-37:2016
Conforms to EN 361: 2002 ; for Fall Arrest Harness.

Harness webbing also tested for surface resistance as per EN 1149-1:2006 & EN 1149-5:2008

Full Body Harnesses

Flanil Series

The Flanil Range of A-SAFE Harnesses & Lanyards have been specially designed for workers engaged in welding and Hot work at height. Webbing of the Flanil Harness & Lanyards is made of a special fibre which is Flame Resistant and can withstand temperatures of upto 700°F / 371°C without any damage.

The Unique Features of Flanil Range are:

- Dorsal D-ring for Fall Arrest
- Two Front Attachment Textile Loops for Fall Arrest
- Two Lateral D-ring for Work Positioning
- Adjustable Thigh Straps
- Adjustable Shoulder Straps
- Special Flame Resistant Webbing
- Adjustable Chest Strap,
- Soft Padding on Waist with special flame resistant cover.
- Ideally Positioned Sit-Strap for Long Lasting Comfort

CE

Conforms to EN 358:1999, EN 361:2002, IS0 9150:1988 & EN ISO 15025:2002.

Full Body Harnesses

Dienoc Series

The Dienoc range of Harnesses & Lanyards have been specially designed for workers working in conditions where there are possible electrical hazards. Special Dielectric D-Rings, buckles and frames used in this range of harnesses are completely electrically insulated.

The Unique Features of Dienoc Range are:

- Non-Conductive Dorsal D-ring for Fall Arrest
- Elasticated Shoulder Straps for Flexibility & Snug fitting to the user.
- Adjustable Shoulder Strap
- Adjustable Chest Strap
- Two Front Attachment Textile Loops for Fall Arrest
- Two Non-Conductive Lateral D-Rings for Work Positioning
- Adjustable Thigh Straps

CE

Conforms to
EN 361:2002 & EN 358:1999

A-SAFE PERSONAL PROTECTIVE EQUIPMENT

The use of a special plastic coating on all D-Rings and Fittings ensures the Harness is completely electrically insulated.

Full Body Harnesses

FBH451
Full Body Harness

Attachment Elements
- 2 Chest attachment D-Rings and a Dorsal attachment D-Ring for Fall Arrest

Adaptabillity
- Adjustable shoulder and thigh straps, chest strap and waist belt

Convenience
- Shoulder and thigh - straps differentiated by a dual colour scheme

Ergonomics
- Ideally positioned sit-strap for extended comfort And Tell-Tale indicator.

Compliance
- Conforms to EN 361 : 2002

Weight : 1300 gms.

FBH452
Full Body Harness

Attachment Elements
- 2 Chest attachment D-Rings and a Dorsal attachment D-Ring for Fall Arrest
- 2 Lateral D-Rings for Work Positioning

Adaptabillity
- Adjustable shoulder, chest, thigh straps and waist belt

Convenience
- Shoulder and thigh-straps differentiated by a dual colour scheme. Tool holder loops and rings at the back

Ergonomics
- Ideally positioned sit-strap for extended comfort And Tell-Tale indicator.

Compliance
- Conforms to EN 361 : 2002 and EN 358 : 1999

Weight : 1820 gms.

ECO-PN10S
Economical Full Body Harness

Attachment Elements
- A Dorsal attachment D-Ring for Fall Arrest

Adaptabillity
- Adjustable chest, thigh straps and waist belt

Convenience
- A single colour scheme

Compliance
- Conforms to EN 361: 2002

Weight : 700 gms.

Full Body Harnesses

Distinctive Features of A-SAFE Magna Range Magna-3

MAGNA HARNESSES

CE 140 kg

Elastic Loops: Specially designed to retain the excess strap while adjustment

Automatic Buckles: Extremely easy to use with single-hand adjustment. Made from top-grade corrosion-resistant steel, these buckles provide a comfortable and snug fit

Lanyard Keepers: Specially designed keepers on both sides for safely attaching the free connector-end of twin-legged lanyard

Stitching Pattern : Unique aesthetic stitch pattern for enhanced stitching strength with smart styling

Ventral D-ring : Provided to be used for rope access, rescue and many other applications making the harness multipurpose.

Thigh Straps : the distinctively placed fully padded straps with automatic buckles for easy adjustment. The knitted mesh net used in the pads gives better shock absorption and maintains proper air circulation

ID Plate : Dorsal Webbing Holding Cross Plate maintains the D-ring in place even after a fall

Shoulder Straps : Fully padded Shoulder straps with comfortable knitted mesh pads for better shock absorption and air circulation

Front Attachment : Very ergonomically placed Sternal D Ring, to be used as front attachment point for fall protection when using a guided type fall arrester while climbing or entering a confined space

Work Positioning Belt : With knitted mesh pads and specially bent lateral D Rings for extra comfort while working. The belt is porvided with a bigger handle at the back for attaching extra karabiners or accessories

Combination Buckles: With a unique pull-up grip, these buckles are very easy to use, can be tightened/ loosened with single hand. They provide very comfortable adjustment, keeping the harness snug fit to the body

CE 140 kg

MAGNA-2
Full Body Harness

Attachment Elements

- 2 Ideally Positioned Chest attachment textile loops and a Dorsal attachment D-Ring for Fall Arrest. 2 Lateral D-Rings for Work Positioning

Adaptabillity

- Adjustable shoulder, chest, thigh straps and waist belt

Convenience

- Shoulder straps have combination buckles and thigh-straps and waist strap are provided with automatic buckles for easy adjustment. 2 Tool holder loops and rings at the back. Lanyard Keepers on shoulder straps have been provided for easy placement of free lanyards

Ergonomics

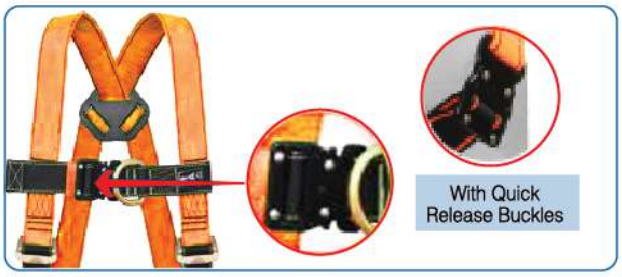
- Ideally positioned sit-strap for extended comfort. Specially cushioned mesh net has been used for better absorption and comfort of the user

Compliance

- Conforms to EN 361 : 2002 and EN 358 : 1999

Weight : 2210 gms.

Full Body Harnesses



FBH4524QR
Full Body Harness

FBH4524QR is a Harness which comes with quick release buckles for easy adjustment.

Attachment Elements
- 1 Chest attachment D-Rings and a Dorsal attachment D-Ring for Fall Arrest

Adaptabillity
- Adjustable shoulder, chest and thigh straps

Convenience
- Shoulder and thigh-straps differentiated by a dual colour scheme

Ergonomics
- Ideally positioned sit-strap for extended comfort And Tell-Tale indicator.

Compliance
- Conforms to EN 361:2002

Weight : 1420 gms.

FBH4542
Full Body Harness

Attachment Elements
- 2 Chest attachment textile loops and a Dorsal attachment D-Ring for Fall Arrest. 2 Lateral D-Rings for Work Positioning

Adaptabillity
- Adjustable shoulder, chest, thigh straps and waist belt

Convenience
- Shoulder and thigh-straps differentiated by a dual colour scheme. Tool holder loops and rings at the back

Ergonomics
- Ideally positioned sit - strap for extended comfort and Tell-Tale indicator.

Compliance
- Conforms to EN 361 : 2002 and EN 358 : 1999

Weight : 1800 gms.

Full Body Harnesses

TH4556
Tower Harness

Attachment Elements
- 1 Dorsal and 1 Sternal D-Ring for Fall Arrest. 1 Ventral D-Ring at waist level for Rope Access work and 2 Lateral D-Rings for Work Positioning

Adaptabillity
- Adjustable shoulder, thigh straps and waist belt

Convenience
- An ideal combination of Fall Arrest, Work Positioning, Rescue and Rope access applications.

Ergonomics
- Soft padding on shoulder, waist and thigh straps for an extended comfort and Tell-Tale indicator.

Compliance
- Conforms to EN 361 : 2002 , EN 358 : 1999 and EN813: 2008

Weight : 2240 gms.



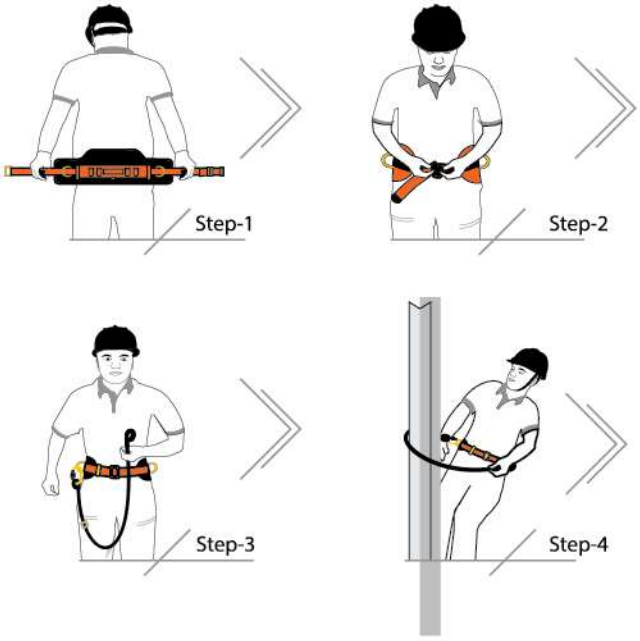
Front

Back

WPB 4503
Work Positioning Belts

- Optimum width comfort pad to provide sufficient lumbar support
- Width of Back pad : 14.5 cms.
- Two Lateral D-Rings for Work Positioning
- Rings for tool holders, bolt bags, etc
- Conforms to EN 358:1999

STEPS FOR WORK POSITIONING



Adjust the lanyard length with the adjuster in order to work comfortably with both hands free.

Full Body Harnesses

Easy Seat

This accessory by A-SAFE can be attached to A-SAFE Harnesses-Magna 3, TH4556 and TH4557 having central D ring at the waist level (ventral) to which the Karabiner is attached.

When done, the Easy Seat provides a comfortable seating for extended time during long hours of work, suspended at a height.

IMP 004
Easy Seat

- The Aluminium reinforcement in the Easy Seat makes it robust yet light in weight, weighing not more than 1300gms.
- The loops at the end of the polyester webbing straps can be easily attached to the ventral D-ring of the Harnesses mentioned.
- Straps are adjustable.
- Equipped with 3 loops.
- Easy positioned on the back when not in use.
- Soft cushioned sides prevents the webbing straps from cutting into the thighs.
- The webbing straps have a breaking strength of more than 23 kN.
- Ergonomics & comfortable working chair.

WEBBING			METAL COMPONENTS		
Material	:	Polyester	Material	:	High strength steel
Width	:	44±1mm	Finish	:	Black powder coated
Breaking Strength	:	23kN	Weight	:	1280gm ± 1

Full Body Harnesses

Suspension Intolerance Strap

Care by A-SAFE even after a Fall!
Avoid the effects of Suspension Trauma with Suspension Intolerance Strap

AS-STS 01N

Extremely effective; specially designed to help relieve the negative effects of Suspension Trauma.

Compact and Light-weight. Does not hamper with the activity of the worker while at work.

Allows the suspended worker to stand up in his harness to relieve pressure.

Easy to attach to the Harness with the help of the textile loop and velcro provided.

Easy deployment; operation is fool-proof.

A-SAFE provides Harnesses fitted with the Suspension Intolerance Straps on request.

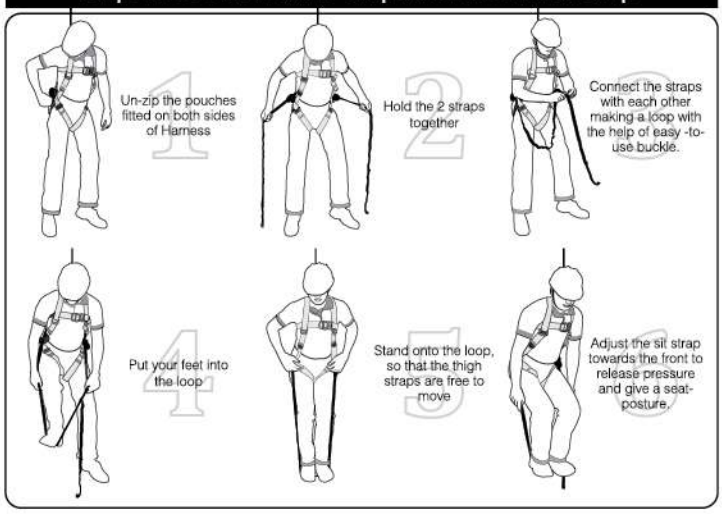
Harness Accessories

The A-SAFE suspension strap can be used when a fall occurs to combat the ill affects of suspension trauma,

This Strap is provided placed inside 2 light weight zipped pouches, which can be conveniently worn on the Thigh straps on both left & right sides of the Harness with the help of textile loop and Velcro.

In the event of a fall, the victim can easily zip-open the pouches and attach together the deployed webbing straps with the help of a convenient buckle.

Steps to USE the A-SAFE Suspension Intolerance Strap



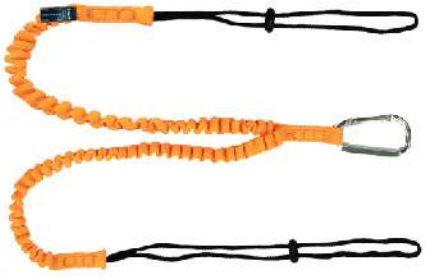
Tools Lanyards

A-SAFE ADVANTAGE
Now with Improved Elasticated Webbing

Accidents are also known to occur when tools fall from the hand of a worker who is using them while working at a height. A-SAFE introduces a new Tools Lanyard which can be connected to the belt of the Harness at end and has a loop at the other end to hold a tool of weight of upto 10 kg.

AS-TL01
Tools Lanyard

- Made of 20mm wide Tubular Webbing.
- Convenient stretch-lanyard for Tool Holding.
- Provided with a light-weight karabiner for attachment to the user's belt.
- Can hold tools upto 10kg.
- Relaxed Length : 85cm.
- Expended Length : 135cm.



AS-TL02
Twin Tools Lanyard

- Made of 20mm wide Tubular Webbing.
- Convenient "Y" Leg Stretch-lanyard for Tool Holding, allow the user to attach & carry 2 tools.
- Provided with a light-weight karabiner for attachment to the user's belt.
- Can hold tools upto 10kg.
- Relaxed Length : 85cm.
- Expended Length : 135cm.

Lanyards

Twisted Rope Lanyards

A-SAFE Lanyards are provided with the following features

- Are made up of 14 mm dia three strands Twisted Polyester Rope
- The spliced end is protected with a strong plastic film
- The loops formed have abrasion resistant plastic thimbles
- The Lanyards are tested as per the EN 354: 2002, and have a minimum breaking strength of 23 KN

A-SAFE offers a wide range of Twisted Rope Lanyards, having different connectors on the ends, and of various lengths.

FL111NX

- Fall Arrest Lanyard with Scaffold Hook & Quick Link
- One side Quick Link AD09 Other side Steel Scaffold Hook AS131N
- Made of 14 mm dia 3 strands polyester rope, Length : 1.8 M
- Conforms to EN 354: 2010

FL111SB

- Fall Arrest Lanyard with Snap Hook & Karabiner
- One side Steel Screw Locking Karabiner AS112B Other side Steel Snap Hook AS121
- Made of 14 mm dia 3 strands polyester rope, Length : 1.8 M
- Conforms to EN 354 : 2010

FL111NB

- Fall Arrest Lanyard with Scaffold Hook & Karabiner
- One side Steel Screw Locking Karabiner AS112B Other side Steel Scaffold Hook AS131N
- Made of 14 mm dia 3 strands polyester rope, Length : 1.8 M
- Conforms to EN 354 : 2010

Forked Twisted Rope Lanyards

For application where a 100% tie-off is required, mostly in situations where the user has to change positions frequently while working, climbing up or down, the forked lanyards (Y type Lanyards) offer the facility to move in all directions while remaining anchored safety at all times.

FL122S
Forked Twisted Rope Lanyard

- Having One Steel Screw Locking Karabiner AS115A at one end and Two Steel Snap Hook AS121 at other end
- Made of 14 mm dia 3 strands polyester rope
- Length : 1.8 M and on special request
- Conforms to EN 354: 2010

FL122N
Forked Twisted Rope Lanyard

- Having One Steel Screw Locking Karabiner AS115A at one end and Two Steel Scaffold Hook AS131N at other end
- Made of 14 mm dia 3 strands polyester rope , Length : 1.8 M
- Conforms to EN 354 : 2010

Lanyards

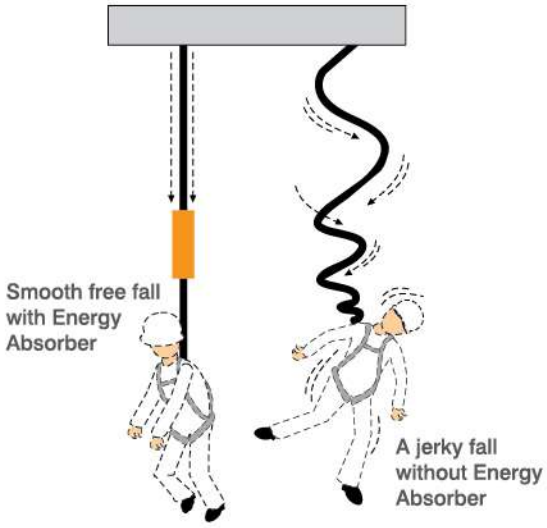
Energy Absorber

How does the Energy Absorber Work ?

In the event of a fall the special webbing inside the Energy Absorber opens up. This opening of the webbing takes up most of the jerk which is felt as an impact when a fall occurs. Hence finally very little jerk is felt on the body of the worker.

We can therefore imagine that if this Energy Absorber is absent from a fall protection system, the forces which are felt on the body of the worker can be very high and can result in injury.

Always use Energy Absorbing Lanyards for fall arrest applications.

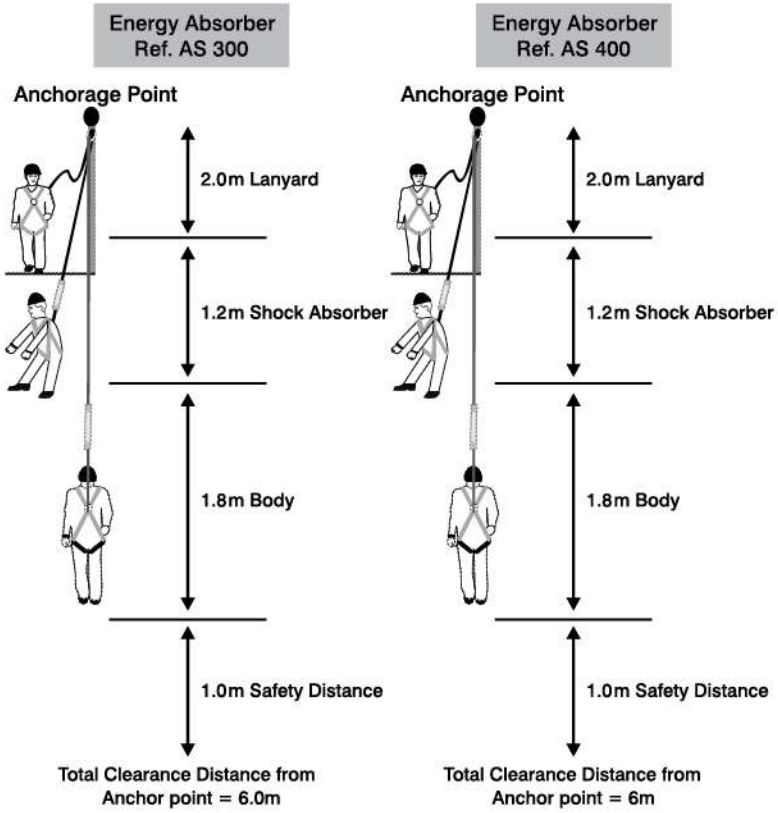


What should be the Length of a A-SAFE Fall Arrest Lanyard

The standard maximum length of the Fall Arrest Lanyard is 2 meters. Important thing to note is to have a lanyard long enough to be user friendly, however, kept as short as possible, to minimize the free fall distance. All A-SAFE fall arrest lanyards are tested and certified as per EN 355:2002 for their maximum length of 2m.

Minimum fall clearance distance required when using an Energy Absorbing Lanyard

It is extremely important to know the fall clearance distance while working at a height using the appropriate Fall Protection System.
While anchored vertically above the head level, the length of the lanyard used and the elongation of the Energy Absorber which occurs in the event of a fall become two of the important factors to determine the fall clearance.
Always check for the minimum Fall-clearance distance so that the risk of hitting an obstacle below is not there.
In the worst case where the user has climbed above the point of anchorage, and has a free fall of 4 meters before the lanyard has been activated, the minimum clearance required is 6.25 meters below the anchorage.



The Fall clearance is the safe clearance distance calculated from the anchorage point downwards.

Lanyards

Energy Absorber

- The Energy Absorber consists of a special white inner polyamide core absorbs the arresting forces in the event of a fall. The coloured webbing serves as a back up. The clear protective covering helps in easy and fast visual inspection
- Fully developed Energy Absorber shall be with strand 15 KN for without tearing or reputure
- Maximum breaking force does not exceed 6 KN in the line when tested on a free fall from 4 meters hight attached to a test mass of 100 kg
- Conformity: EN 355 : 2002

AS400

Material/Composition : 35 mm Polyamide for Tear Webbing and 35 mm Polyester for Backup Webbing

Net Weight : 172 gm

The energy absorber opens up to an additional length of about 110 cm, and hence the worker should always make sure that there is enough safe clear distance below his area of work. (A-SAFE recommends a safe clear distance of 6 m for a 2 m Energy Absorbing Lanyard)

Energy Absorber Twisted Rope Lanyards

EFL111SB
E. A. Twisted Rope Lanyard

- One side Steel Screw Locking Karabiner AS112B of Energy Absorber AS400. Other side Steel Snap Hook AS121
- Made of 14 mm dia 3 strands polyester rope
- Length : 1.8 M and on special request
- Conforms to EN 355 : 2002

EFL111NB
E. A. Twisted Rope Lanyard

- One side Steel Screw Locking Karabiner AS112B of Energy Absorber AS400 Other side Steel Scaffold Hook AS131N
- Made of 14 mm dia 3 strands polyester rope, Length : 2.0 M
- Conforms to EN 355 : 2002

Lanyards

Energy Absorbing Forked Twisted Rope Lanyard

For application where a 100% tie-off is required, mostly in situations where the user has to change positions frequently while working, climbing up or down, the forked lanyards (Y type Lanyards) offer the facility to move in all directions while remaining anchored.

EFL122SB
E.A. Forked Twisted Rope Lanyard

- Having One Steel Screw Locking Karabiner AS112B at one end of Energy Absorber AS300D and Two Steel Snap Hook AS121 at other end
- Made of 14 mm dia 3 strands polyester rope
- Length : 1.8 M and on special request
- Conforms to EN 355: 2002

EFL122NB
E.A. Forked Twisted Rope Lanyard

- Having One Steel Screw Locking Karabiner AS112B at one end of Energy Absorber AS300D and Two Steel Scaffold Hook AS131N at other end
- Made of 14 mm dia 3 strands polyester rope, Length : 2.0 M
- Conforms to EN 355 : 2002

Energy Absorbing Forked Webbing Lanyard
Energy Absorbing Forked Kernmantle Rope Lanyard

EFW122
E.A. Forked Webbing Lanyard

- Made of 44 mm wide webbing
- Having One Steel Screw Locking Karabiner AS111 at one end of Energy Absorber AS300D and Two Steel Scaffold Hook AS131N at other end
- Length : 1.80 M
- Conforms to EN 355 : 2002 + VG 11/PFE 63 (Additional Static Strength Test)

EFK122
E.A. Forked Kernmantle Rope Lanyard

- Made of 12 mm dia braided polyamide rope
- Having One Steel Screw Locking Karabiner AS 112 At One End of Energy Absorber AS300D and Two Steel Scaffold Hook AS131N At Other End
- Length : 1.80 M
- Conforms to EN 355: 2002 + VG 11/PFE 63 (Additional Static Strength Test)

Work Positioning Lanyards

A-SAFE has a comprehensive and customized series of Work Positioning Lanyards. These Lanyards can be connected to the Lateral D-Rings on the Work Positioning Belts or Combination Harnesses and can be easily adjusted for their lengths to suit the application.

A-SAFE Work Positioning Lanyards are tested and CE certified as per EN 358:1999.Breaking Strength min 15 kN.

WPL 247PR
Work Positioning Lanyards

Work Positioning Lanyard with Grip Adjuster with 30cm Long Protective Covering Sleeve **WPL247PR**

Rope	Dia	Rope Grab/Adjuster	Attachment Elements	Max. Length	Conforms
Kernmantle Rope	12mm	Aluminium Blocker Rope Grab AS-RG 07	Steel Karabiners (AS 112) at both the ends for attachment	2.0m	EN 358:1999

Pole Strap

A-SAFE Pole Strap is fully adjustable, allowing for various work positioning applications.
Available in 2m length, this pole strap is used in applications such as line and pole top work to support a worker on a pole.

AS-PS248
Work Positioning Lanyards

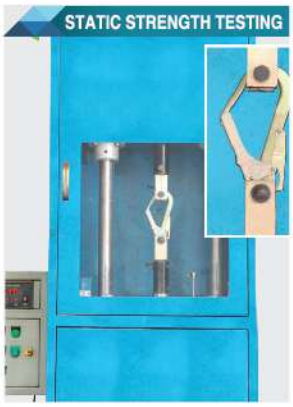
AS-PS248
Pole Strap

Webbing	Width	Rope Grab/Adjuster	Attachment Elements	Max. Length	Conforms
Polyester Webbing	44mm	Buckle for length adjustment	Both Side Snap Hook AS 121	2.0m	EN 358:1999

Equipped with 60cm long Protective Covering Sleeve

Hooks & Connectors

Tests carried out on all Hooks & Connectors



Ergonomic Steel Scaffold Hook

AS 131N

AS 131N comes with a New REVOLUTIONARY DESIGN & BIGGER EFFECTIVE OPENING, hence the user can easily hook on to the standard Scaffold bar without hurting his fingers anymore.

AS 131N

NEW

A-SAFE bring you an exclusive new revolutionary design Steel Scaffold Hook; Ref. AS 131N with enhanced gate opening & Comfortable grip for user to work safely at all times.

Salient Features:

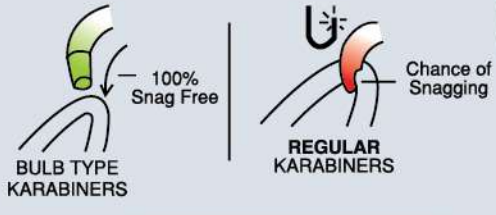
- Forged Steel Scaffold Hook, having a breaking strength of more than 25kN
- A new Curved design of the Gate allows more comfortable grip
- Has a bigger effective opening of more than 50mm thus allowing the standard Scaffold bar to easily slipon

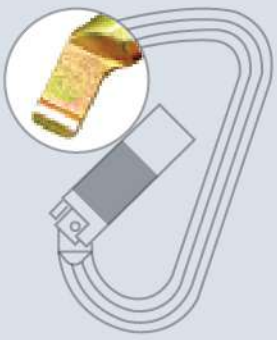
Ref.No.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish Available	Conformity
AS 131N	Alloy Steel	50.8mm	23kN	485gm	Silver/Golden Yellow Galvanized	EN 362:2004 Class T

Bulb type Karabiners

NEW

The New Bulb-type Karabiners by A-SAFE use the unigue Keylock System and hence the body/gate interface unlike the regular Karabiners, does not snag on Anchors, Ropes, Harness equipmentloops, etc.





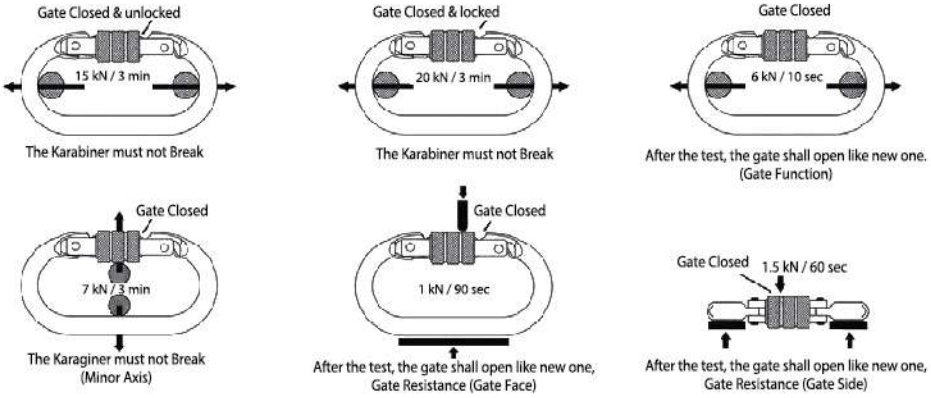
Conforms to
EN 362:2004 Class B

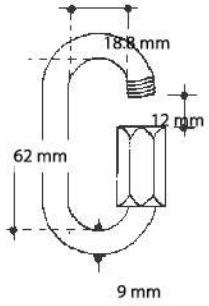
Hooks & Connectors

Steel Hooks & Connectors

A-SAFE provides an exhaustive range of Hooks and Connectors having the following features ;

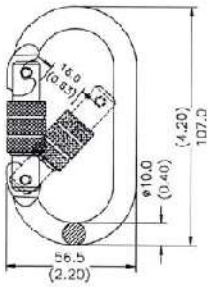
- Are openable by minimum 2 deliberate consecutive manual actions.
- A range of Manual and Automatic Locking Hooks and Connectors.
- Tested for both Gate Functions and Gate Resistance.
- Tested for corrosion resistence for minimum 72 hours of salt spray testing.
- Certified as per EN Norms.





AD09

Description: Quick Link
Material/Composition: Stainless Steel
Minimum Breaking Strength: 19 KN
Net Weight : 104.0 gm



AS112

Description: Steel Screw-locking Karabiner
Material/Composition: Alloy Steel - golden yellow
Gate Opening: 17 mm
Minimum Breaking Strength: 25 KN
Net Weight: 160.5 gm
Conformity: EN 362: 2004 Class B & Class M

AS 112B

Steel Bulb Type Screw Locking Karabiner

AS 112B-LI

Steel Bulb type Screw Locking Karabiner with Lock Indicator

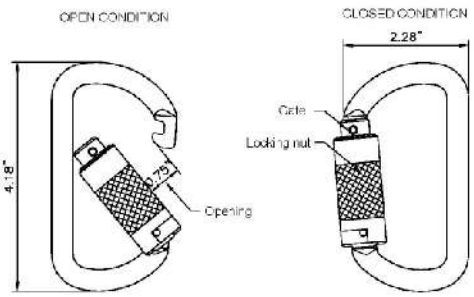
AS 114BE

Steel Bulb Type Triple Action Locking Karabiner

Ref. No.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish Available	Conformity
AS 112B	Alloy Steel	15.0mm	23kN	167.0gm	Silver/Golden Yellow Galvanized	EN 362:2004 Class B
AS 112B-LI		15.0mm	23kN	167.0gm		
AS 114BE		22.0mm	45kN	248.0gm		

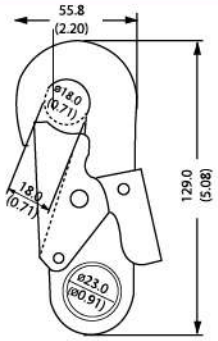
Hooks & Connectors

Steel Hooks & Connectors



AS115A

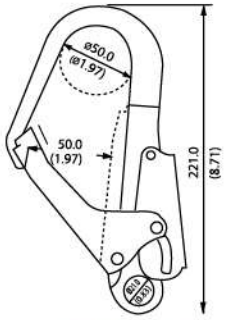
Description: **Steel Quarter Turn - locking Karabiner**
Material/Composition: Alloy Steel - golden yellow
Gate Opening: 23 mm
Minimum Breaking Strength: 25 KN
Net Weight: 210.0 gm
Conformity: ANSI Z359.12:2009



Static Load Testing

AS121

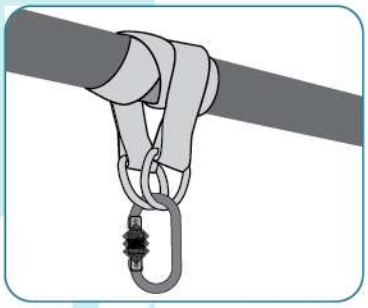
Description : **Steel Snap Hook**
Material/Composition: Alloy Steel - golden yellow
Gate Opening : 17 mm
Minimum Breaking Strength : 25 KN
Net Weight : 205.3 gm
Conformity : EN 362 : 2004 Class T and ANSI Z 359.1



AS131N

Description : **Steel Scaffold Hook**
Material/Composition : Forged Alloy Steel
Gate Opening : 55 mm
Minimum Breaking Strength : 23 KN
Net Weight : 473.0 gm
Conformity : EN 362 : 2004 Class T and ANSI Z 359.1

Anchorages

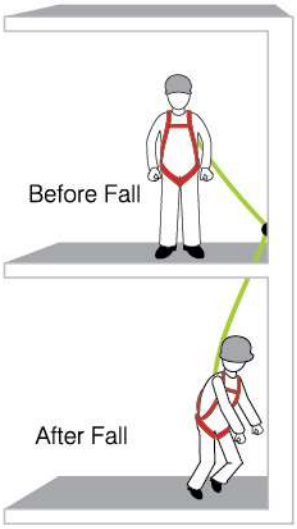


The Anchorage point is commonly referred to as a secure tie-off point. It is the place where a worker anchors himself so that he can easily move about that point, and also hold on safely incase he experiences a fall.

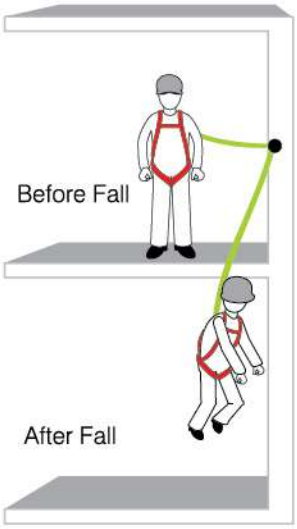
There are certain important points to note while one anchors to any anchorage point

1. Always make sure that the Anchorage used (whether a scaffolding bar, or the bar of a ladder, or an Anchorage Connector) is strong enough to hold you in case you are subjected to a fall. Technically, it should be capable of withstanding a static load of more than 12 kN for 3 minutes.

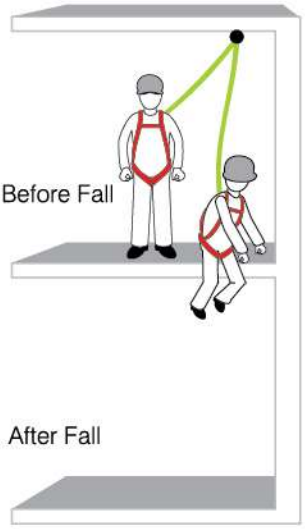
2. You should Anchor yourself to the point which lies directly overhead. If the Anchorage point is below the shoulder level, then the distance of the fall gets increased, thereby exposing you to a risk.



Fall when anchored at lower level (Fall Factor 2)



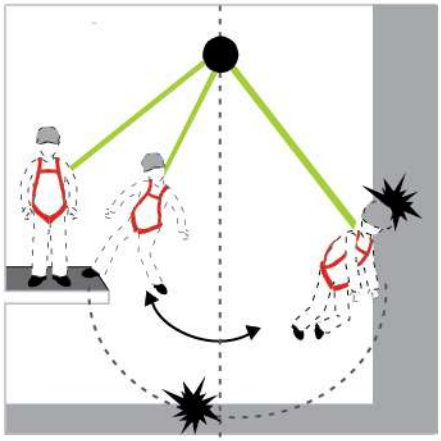
Fall when anchored on the side (Fall Factor 1)



Fall when anchored at a level above the head (Fall Factor 0)

3. **Avoid a Swing-Fall**

Try to anchor yourself to a point which is more vertically above you, than to your side. If the anchorage is on the side, you may experience a risky swing in the event of a fall, and may injure your self by hitting an obstacle.



You could be injured if anchored on the side, due to the pendulum effect.

Anchorages

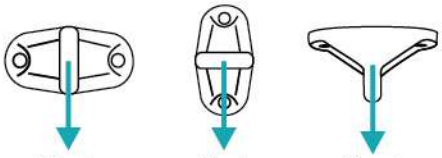
Introduction to Anchors

According to EN 795 2012, Anchor devices have been classified into various types, names Type A, B, C, D and E. A-SAFE offers a range of anchor devices which fall under various such types.

Type A Anchor (As per EN 795:2012)

This type is an anchor device with one or more stationary anchor points having the need for a structural anchor or fixing element to fix to the structure. This type of Anchor is usually small, and may or may not be removed from the supporting structure due to being fixed, such as with rivets, studs, screws, welds or resin bonding.

Tested to withstand load from all the 3- axis



AS-SA 09
Aluminium Point Anchor

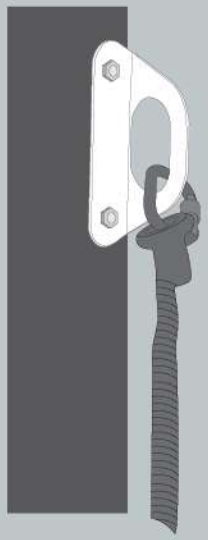
This point-anchor is compact, made of Aluminum Alloy, highly corrosion resistant and can be bolted on any structure with the help of 2 screw-bolts. The anchorage provided by its eye-bolt has been tested to withstand the impact load in all the 3 axis, and hence provides the highest level of safety.

Structures on which it can be mounted :

1. On Concrete structures having minimum width of 125mm.
2. Metal Structures using suitable fasteners.

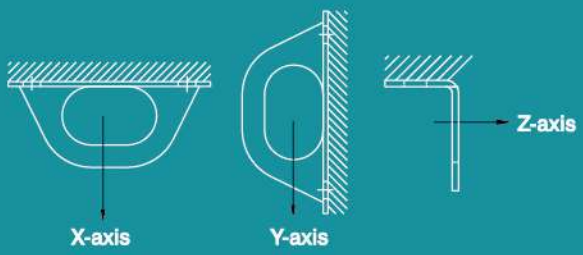
Technical Description :

- Material : Aluminum Alloy.
- Minimum Breaking (System) Strength : 5000lbs/23kN.
- Finish : Natural Silver.
- Net Weight : 308gms.
- Conforms to EN 795 : 2012 Type A & ANSI Z 359.1 : 2007.



NEW

Tested to withstand load from all the 3- axis



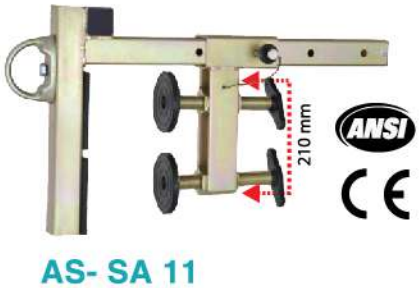
AS-SA 41
Flange Anchor

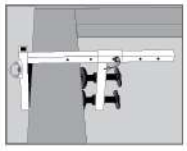
Material	Weight	Breaking Strength	Finish	Conforms
Stainless Steel	311gms ±10gms	23 kN	Polished	EN 795:2012 Type A

The Anchorage provided by its eye-bolt has been tested to withstand the required load of 23kN from all the 3 axis, and hence provides the highest level of safety.

Anchorages

Type B Anchor(As per EN 795:2012)





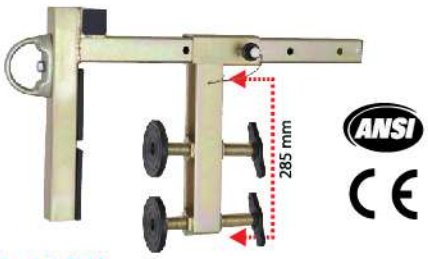
AS- SA 11
Parapet Anchor

The A-SAFE Parapet Anchor provides a safe anchorage point on parapets and facades. A regular Screw-bolt anchor cannot be used in such places because it may damage the base structure.

A-SAFE Parapet Anchor preserves the look of the parapet and facade, while providing a safe anchorage point. The soft part on the inner of the Flanges also ensures that the parapet is not damaged.

The adjustable Flanges make the A-SAFE Parapet Anchor device versatile for use on various structures having a width ranging from 60mm to 360mm.

- Material: High strength steel galvanized to provide corrosion protection.
- Minimum Breaking (System) Strength : 5000lbs/23kN.
- Flange width adjustable from 60mm to 360mm.
- Net Weight : 9000gms ±100gms.
- Conforms to EN 795 : 2012 Type B & ANSI Z 359.1:2007.



AS-SA 11(B)
Parapet Anchor with Extended Movable Arm

The A-SAFE Parapet Anchor provides a safe anchorage point on parapets and facades. It consists of extended movable arm which allows installation on the parapet with mounting on outer edge.

- Material : High strength steel galvanised to provide corrosion protection.
- Minimum Breaking (System) Strength : 5000 lbs/ 23kN
- Flange width adjustable from 60 mm to 360 mm.
- Net Weight : 9560gms ±100gms
- Conforms to : EN 795 : 2012 Type B & ANSI Z 359.1 : 2007

Type B Anchor(As per EN 795:2012)

AS-SA 15
Beam Anchor Trolley

A-SAFE Beam-Anchor Trolley, provides a movable anchorage point using the length of the Beam to which it is mounted, to move along with the user.

This Trolley allows continuos safe anchorage by allowing the anchor point to travel across the length of the beam, along with the user.

It is constructed of Aluminum and Stainless steel, is highly corrosion resistant, and is extremely easy to install.

The Flanges are adjustable, and can be adjusted to widths from 80mm to 250mm.

The wheels of the trolley provide extremely smooth movement over the beam, over which it is mounted.

Anchorage is provided by a forged AluminumD-ring stitched to a webbing of length 170mm ± 5mm attached to the trolley-bar.

- Minimum Breaking (System) Strength : 5000lbs/23kN.
- Net Weight : 4200gms ± 10gms.
- Conforms to : EN 795 : 2012 Type B & ANSI Z 359.1:2007.

AS-SA 15(A)
Beam Anchor Trolley

This Beam-Anchor Trolley, also provides a movable anchorage point using the length of the overhead Beam to which it is mounted, to move along with the user.

Anchorage is provided by a Steel D-ring attached to the trolley-bar.

It is constructed of Aluminum and Stainless steel, is highly corrosion resistant, and extremely easy to install.

The Flanges are adjustable, and can be adjusted to widths from 80mm to 250mm.

The wheels of the trolley provide extremely smooth movement over the beam, over which it is mounted.

- Minimum Breaking (System) Strength : 5000lbs/23kN.
- Net Weight : 3900gms ±10gms.
- Conforms to : EN 795 : 2012 Type B & ANSI Z 359.1:2007.

Anchorages

Type B Anchor (As per EN 795:2012)

Certified for 2 users.

Door & Window Anchorages

Door/Window Anchor a perfect non-penetrating anchor solution

AS 802

A-SAFE Door Anchor provides a non–intrusive anchor point and can be easily installed inside the interior of a building or window opening enabling the most difficult jobs to get done safely and with confidence.

A-SAFE Door Anchor can be installed by just compressing it against the door or window frame, jamming itself between the two vertical sides.

It is constructed of Aluminum alloy, hence is highly corrosion resistant and is light in weight, weighing less than 4.85 kg.

The Arms of the A-SAFE Door Anchor are adjustable, enabling installation on door/window frames of width from 60 cm to 125 cm.

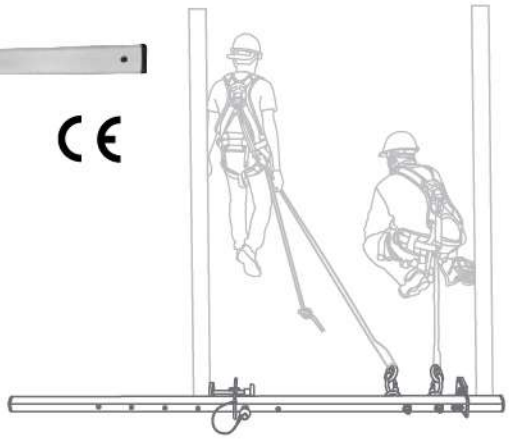
Fast and easy Installation with built in adjustment knob hence no tools or drilling is required.

Extremely portable design for easy transport, storage and usage.

- Minimum Breaking Strength : 15kN
- Every Door Anchor is provided with Door Anchor Bag Ref. BG 34
- Conforms to EN 795: 2012 Type B & TS 16415 : 2013 Type B

AS 802
Door Anchor

CE



A-SAFE Advantage

A-SAFE Door Anchor is unique because it is provided with two separate eye bolts, enabling anchorage by two personnel at the same time.

BG 34
Door Anchor Bag

Cross Arm Straps

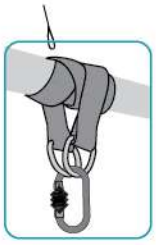
Type B Anchor (As per EN 795:2012)

A-SAFE provides a wide range of Cross Arm Straps of various configurations and lengths that can be al per the requirement.

CE

AS 804
Cross Arm Strap

- Made up of 44mm wide Polyester Webbing
- Length : 1.0mtr., 1.5mtr. & 2.0mtr. or as requested
- Has a D-Ring on both the ends
- Strength : Min 18 kN for 3 minutes
- Conforms to EN 795 : 2012 Type B



CE

AS 807
Cross Arm Strap

- Made up of 20mm wide Polyester Webbing
- Length : 0.6mtr., 1.0mtr. & 1.5mtr. or as requested
- Strength : Min 18 kN for 3 minutes
- Conforms to EN 795 : 2012 Type B

Anchorages

Telescopic Pole System

KARAM / A-SAFE Telescopic Pole is a perfect solution to create overhead anchors at unreachable Heights.

PN 815(04)
Telescopic Pole

Material : Fiberglass.
Maximum Length : 7.95 m.
Minimum Length : 1.95 m.
Weight : 3800 gms.

PN 815(03)
Hanging Hook

Material : Alloy Steel, Plastic Moulded.
Weight : 190 gms.

PN 815(02)
Extension Section

Length : 1 m.
Weight : 425 gms.

PN 815(01)
Head

Length : 240 mm.
Weight : 185 gms.

PN 154
Aluminum Anchorage Hook

- Material : Aluminum Alloy.
- Opening : 65 mm.
- Minimum Breaking Strength : 23 kN.
- Weight : 480 gms.
- Finish : Natural Silver / Coloured Anodized
- Conforms : EN 362:2004 Class A & EN 795:2012 Type B.

PN 156
Steel Anchorage Hook

- Material : Alloy Steel.
- Opening : 95 mm.
- Minimum Breaking Strength : 23 kN.
- Weight : 880 gns.
- Finish : Silver/Golden Yellow Galvinized; Shot blasted on request.
- Conforms : EN 795:2012 Type B.

KARAM / A-SAFE Telescopic Pole is light in weight, made up of fibre glass, and can be effectively used to install an anchorage point from a distance.

KARAM / A-SAFE Telescopic Pole Ref. PN 815 consists of Head Ref. PN 815(01), Hanging Hook Ref. PN 815(03) & Telescopic Pole Ref. PN 815(04)

Features :

The Total weight of the Telescopic Pole assembly without the hook is approx. 4.6kg, and hence can be easily carried.
Working reach with Extension : 10.5m (This includes 8.95m of fully expanded length of the pole extension and 1.55m of user's height.

Open Expanded Height of Telescopic Pole : 7.95m. Closed Length of Telescopic Pole : 1.95m
Dielectric Resistance : 30kV

Comes with an option of using either the Steel Anchorage hook PN 156, or the Aluminum Anchorage hook PN 154, to Anchor at the required distance.

NEW

PN 821(N)
Rescue Pole

KARAM / A-SAFE offers a new Rescue Pole made from fiber glass & is extremely light in weight. This Rescue pole is used as an extension to rescue a fall victim without descending to the victim for rescue.

Features:

- Extremely light in weight
- Portable & easy to carry
- Material : Fiber Glass
- Net Weight: 900 gms
- Maximum Expanded length of Rescue Pole: 3m. Minimum length of Rescue Pole: 0.75m
- Comes with an option of Aluminium Rebar Hook- Ref. PN 136 to anchor at the required distance.

PN 136
Aluminium Rebar Hook

Anchorages

Guided Type Rope Grab

AS2000

Description: **Retractable Rope Grab for Fibre Rope**
(Double security locking system)
Work on 14 mm to 16 mm dia. Anchorage line

Material/Composition: Steel

Minimum Breaking Strength: 15 KN

Net Weight: 873.1 gm

Advantage: Gravity locking to prevent incorrect use

Conforms to: ANSI Z 359.1 and EN 353 : 2002

AS2001

Description: **Retractable Rope Grab for Steel Wire Rope**
Work on 8 mm dia. Anchorage line of steel cable, Available in length of 4M to 60 M

Material/Composition: Stainless Steel

Minimum Breaking Strength : 15 KN

Net Weight : 431.6 gm

Conforms to: ANSI Z 359.1 and EN 353 : 2002

AS2003

Description: **Retractable Rope Grab for Fibre Rope**
Work on 14 mm to 16 mm dia. Anchorage line of Polyester Twisted Rope incorporated permanently on the anchorage line

Material/Composition: Steel

Minimum Breaking Strength: 15 KN

Net Weight: 441.5 gm

Conforms to: ANSI Z 359.1 and EN 353 : 2002

A-SAFE ADVANTAGE

A-SAFE Rope grab is provided with a unique Gravity Locking System that prevents incorrect usage. It is also equipped with a double security opening system, and henee will not open unless a deliberate action is done to do so.

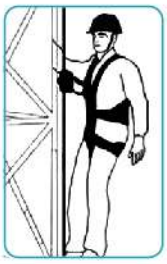
Automatic Locking

Locked position allows Manual Locking

Only A-SAFE Fall Arrester comes with the unique Anti-Gravity Locking System.

Features:

- Failsafe design ensures correct usage
- Arrests fall with very shortfall distance
- Detatchabele-can be easily detached from the anchorage line.
- Has a double security locking system.
- Conforms to EN 353-2002



AS-RG07 / AS2006

Description:

Openable Aluminium Rope Grab Blocker
Work on 11-12 mm dia. Kernmantle rope anchorage line.

Material/Composition: Aluminium Alloy

Minimum Breaking Strength : 15 KN

Conforms to:
EN 353-2 : 2002& EN 12841 : 2006 Type A

AS-RG0850 / AS2007-AP

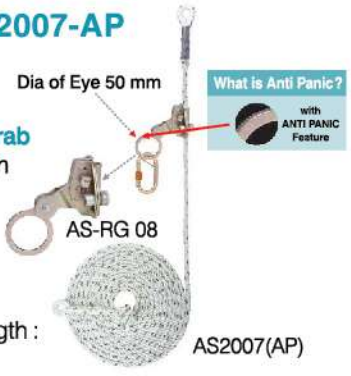
Description:

Openable Galvanized Steel antipanic Rope Grab
Work on 14 mm to 16 mm dia. Anchorage line of Polyester Twisted Rope

Material/Composition: Galvanized Steel

Minimum Breaking Strength : 15 KN

Conforms to: EN 353-2 : 2002



Anchorages

Temporary Anchorage Line Systems

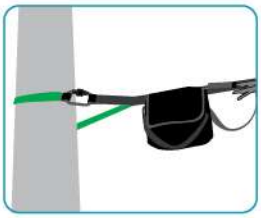
HORIZON Textile Horizontal Line

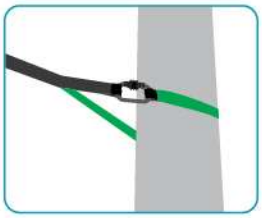
A-SAFE offers the Horizon range of Temporary Horizontal Lifelines, made up of textile webbing and rope which are extremely easy to carry and install wherever required. These Horizon Anchorage Lifeline systems by A-SAFE provide a suitable and safe anchorage horizontally along a length.

Horizon AS 3000
Horizon Temporary Horizontal Webbing Anchorage Line

- The Horizon- AS 3000 is a Horizontal Anchorage Life Line made up of 30 mm Polyester Webbing equipped with the A-SAFE Ratchet Tensioner that allows easy tensioning of the lifeline between two structures. Both the ends are provided with Auto Locking Steel Karabiners (Our Ref AS 113)
- The whole system is supplied in a bag , which is permanently attached to the assembly and also enables the user to easily carry the system with the help of comfortable shoulder hanging straps provided in the bag.
- Once fitted, you can easily put back the extra webbing not deployed along the length, into the Bag.
- Conforms to EN 795:1996, C lass B
- Available Length- Total 20m, thus the user can use it for a length ranging from 5m to 20m.
- Tested & Certified for use by Two Users simultaneously.
- Once the Lifeline is fitted, the user can easily attach the Lanyard of his Harness to the Lifeline using a Karabiner. This allows movement along the length while keeping the user secured and safe at all times.

Horizon AS 3000





AS 804

Now Horizon AS 3000 is available with Cross Arm Strap **Ref. AS 3000(BC)**

AS 3000(BC) Tested & Certified for use by Two Users simultaneously.

Conforms to EN 795:2012 & TS 16415:2013 Type B & C

Anchorages

Temporary Anchorage Line Systems

HORIZON Rope Anchorage Line - 4 Man

Horizon PN 3001
Horizon 4 Man Temporary Horizontal Rope Anchorage Line

KARAM / A-SAFE introduces a new Horizon 4 Man Temporary Horizontal Lifeline made up of Kernmantle Rope of 16mm dia and a uniquely designed Tensioner integrated within the lifeline.

This Lifeline is provided with 4 'O Rings' as Anchors made up of High Strength Galvanized Steel.

Features :

- Quick & easy to install, and is re-usable
- Suitable for upto **4 personnel**
- Highly corrosion resistant Tensioner made of Aluminium & Stainless Steel
- Consists of tension indicator for creating an adequate tension in the Line
- The Lifeline made up of 16mm dia Kernmantle Rope, has a swivel brass connector at one end, which can be connected to a rated anchor point with the help of a Steel Quarter Turn Locking Karabiner PN 113. The other end of the lifeline is connected with the help of a Karabiner PN 113, connected to the eye of the tensioner. The anchorage line is secured at the termination with the help of a stop-knot covered with a protective sleeve.
- Has Swivel Brass Connector - Specially designed to prevent any twisting of the rope.
- The system has 4 Steel O-Rings to enable the user to easily attach the Lanyard of his Harness to the Lifeline using a Karabiner.
- Total Length of the Line is 25 m. Covers a span of **5 m to 25 m**
- Minimum Breaking Strength : 25 kN
- The whole system is supplied in a bag , which is permanently attached to the assembly and also enables the user to easily carry the system with the help of comfortable handles provided in the bag. This Bag is designed in such a way that it keeps the unused rope safely, thereby preventing the rope being subjected to abrasion or from dust, dirt grime, oil etc.
- Once fitted, you can easily put back the extra rope not deployed along the length, into the Bag.
- Conforms to EN 795:2012 Type C & TS 16415 2013 Type C

Tensioner

Made of Aluminum & Stainless Steel

This Temporary Horizontal Life Line comes with a Unique Tension Indicator. Once the required tension is achieved, the disc on the tension indicator gets released indicating the line is ready to use.

System	Rope Type	Material of Tensioner	Attachment Ends	Anchorage Type	Max. No. of Users	Max. Span Length	Weight
PN 3001	Kernmantle Rope of dia 16mm	Aluminium & Stainless Steel	One end-Swivel brass connector Other end-Strop Knot	Forged Galvanized Steel O Ring Qty-4 nos.	4 users	5m to 25m	9.28kgs ± 0.10kgs

Retractable Fall Arrester Blocks

Retractable Blocks

Polymer Casing Retractable Block with Wire Rope Retractable Lanyard

Polymer Casing Retractable Block with Webbing Retractable Lanyard

A-SAFE is proud to launch its premium range of Retractable Fall Arrest Blocks for use in those areas which have a small fall-clear distance. Available in different lengths and in two different sturdy casings, they provide a wide range of functionality.

In the event of a fall, the wire rope of the Block locks itself and arrests the fall immediately, hence preventing the worker from hitting the ground. In addition, the block also provides energy absorption, limiting the impact of fall felt on the body to less than 6 kN.

Advantages of using Retractable Fall Arrester Block

- Gives greater working distances from the anchorage point
- Incorporates self locking function and automatic tensioning system
- Limits potential fall an absolute minimum

The Retractable Fall Arrester Block is the perfect and ideal fall protection solution for the following applications :

- Industrial
- Mining
- Ware Housing
- Truck Gantries
- Refineries
- Confined Spaces

Features of A-SAFE Retractable Fall Arrester Block

Mechanism	Unique Centrifugal Braking Mechanism
Applications	Ideal For Vertical use in various hazardous conditions for personnel weighing up to 140 kgs
Impact Force	Reduces Fall Arrest Force to less than 6kN
Anchorage Eye	With swivel action. Prevents undue twist of rope while working or in the event of a Fall
Harness-end Connector	Swivel Snap Hook AS 162 with impact indicater. a warning line when a Fall has occurred.
Range Available	Lanyard Length available 2 mtr to 30 mtr
Conformity	Tested and Certified. Conforms to EN 360 : 2002

Retractable Fall Arrester Blocks

Mikron Block

The ergonomically designed MIKRON is easy to use and is ideal for direct connection to most harnesses. It is virtually unnoticeable on your back, stays out of the way & can be easily used as a lanyard replacement. Whether your application requires single or twin leg configurations, mounting to an overhead anchor or for connection directly to harness, A-SAFE Mikron comes with all the possible connections for you to choose as per your suitability. Mikron locks quickly –stopping a fall within inches- providing more protection at low heights. Also, the tension is always kept on the lifeline, which reduces snapping, dragging & trip falls.

MIC 02

- Extremely light in weight, (weighing less than 600gms excluding hook)
- Available with a range of hooks option to choose from
- Can be used as a Single & Forked Lanyard with Mono/Twin Connectors


PN 169


PN 170

- High strength Polymer casing provides maximum durability
- Automatic Quick Fall Arrester ro arrest fall to less than 4kN
- Minimum Breaking Strength: 15 kN
- Has inbuilt textile Energy Absorber with protective cover on it

A-SAFE ADVANTAGE

Can also be used when Anchor Point is at the foot level which **means** MIKRON COMPLIES TO FALL FACTOR 2

- 2 mtrs Retractable Webbing provides continuous fall protection without any obstacles- keeps lifeline out of worker's way, reducing snagging, fragging & trip falls
- Fall Distance is minimal as compared to Energy Absorbing Lanyards hence Retrieval of fall victim is easier
- Can be used Horizontally
- Aluminum Swivel Quarter Turn Locking Hook PN 130 having impact indicator at attachment end
- Conforms to EN 360:2002, VG 11 # 11.060
- Consists of detailed Dos' & Don't's Instruction inside the cover

Features:

- New Smart & Stylish design with different Hook options to choose from.
- Incorporated with Robust & Durable casing, this Mikron block is extremely Light in weight & easy to carry (almost pocket size).
- Made up of finest material for Longevity and Extended use.
- Fall distance is minimal as compared to Energy Absorbing Lanyards hence retrieval of fall victim is easier.

Retractable Fall Arrester Blocks

Mikron keeps you Safe on Sharp Edges

Mikron meets the Sharp Edge Test & Passes the Dynamic Test of Fall Factor 2

Mikron by A-SAFE is constructed in such a way that if subjected to contact with sharp edge in the event of a fall from the roof/terrace, the Retracted Lanyard remains intact, while arresting the fall immediately. Inbuilt with innovative combination of lifeline material, energy absorption & harness connection, the Mikron Block by A-SAFE reduces forces on both worker & the edge, thereby arresting the fall immediately.

Mikron Features:

- **Trip Hazard-**
  Lanyards, whether designed for foot level tie off or not, develop slack, hence create snag & trip hazards.
  MIKRON retracts unused Lifeline, virtually eliminating the potential.
- **Force-**
  Products not specifically designed for foot level tie –off will generate forces far exceeding accepted safety parameters in the event of a fall.
  MIKRON has Inbuilt energy absorber to reduce the forces of fall to less than 4kN.
- **Fall Clearance-**
  Traditional foot level tie-off products require at least 5.6m of fall clearance.
  Mikron requires a fall clearance distance of 4 m.
- **Sharp Edges-**
  Mikron meets the sharp Edge Test & passes the Dynamic Test of Fall Factor 2, hence can be used safely over the sharp edges.

Mikron Guide

Now Choose The Mikron As Per Your Requirement

Mikron can be used with a variety of different Hooks & Connectors at both its ends, offering high level of flexibility of use to the wearer.

Retractable Fall Arrester Blocks

Mikron as a Lanyard

A-SAFE offers two unique & separate Dorsal D-ring attachments to use Mikron Block as both single & Forked Lanyards.

PN 169

PN 170

- Mikron can be used as a single or Forked Lanyard as per requirement
- No additional connector is required
- Reduces the length of the swing during the fall thereby preventing the Mikron from hitting the head of the user
- Can be attached to any of the Harnesses
- Is installed on the webbing of the Harness, hence the Dorsal D-ring is free for attaching other equipment or rescue
- Snug fit design
- Provides 100% tie off Configuration
- Provides Mobility when moving from one location to another

Also, available with Steel Scaffold Hook Ref. AS136 or AS131N when Mikron needs to be used as need to be a Single or Twin Lanyard.

Now use the Mikron as a Single / Twin lanyard

Ref. PN 169

Ref. PN 170

Available with Mono SRL Connector Ref. PN 170 and Twin Retractable Block Connector Ref. PN 169 to attach 2 Mikron blocks directly with user's Harness at the dorsal part. This enables usage like a single/twin lanyard. No additional connector is required. Also, it reduces the length of swing during the fall thereby preventing the impact of the Block on the user.

MIC02-136
MIKRON BLOCK

- Maximum length of Retractable Webbing - 2 mtrs.
- Attachment End : Comes with Aluminium Rebar Hook AS136.
- Conforms to EN360:2002, VG11#11.060

Retractable Fall Arrester Blocks

Retrieval Retractable Blocks

A-SAFE offers a unique range of Retrieval Fall Arrest Blocks to enable easy retrieval of a victim of fall. These Blocks allow the fall to arrest and also allow easy hoist of the victim with the help of their inbuilt Winch mechanism when mounted on Megapods, Tripods, K-Pods etc.

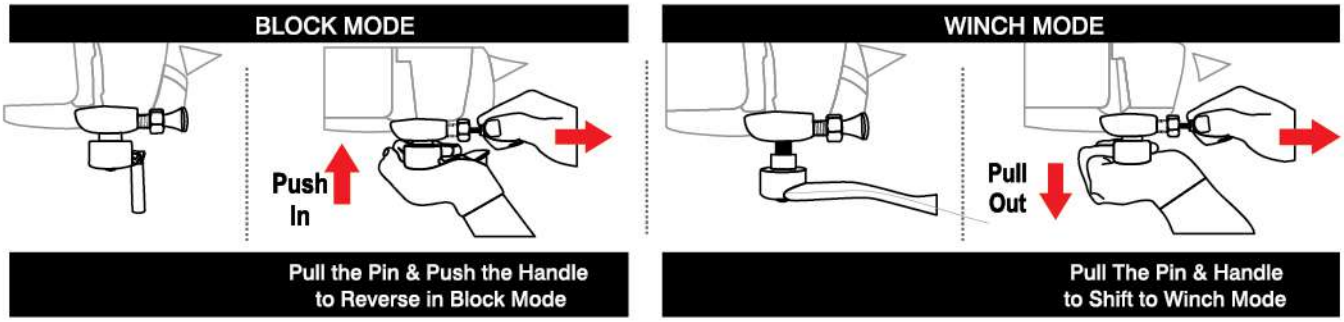
Features of A-SAFE Retrieval Retractable Blocks -

- A-SAFE Retrieval Blocks come with Retractable Life Line made of Galvanized Steel Wire Rope. This Life Line is constructed of 4.5mm dia Steel Wire Rope.
- The locking pin on the side of the casing at the base of the handle allows this dual system to work in independent Fall Arrest & Winch modes.
- Can be easily mounted on the leg of A-SAFE Tripod AS800 Megapod, K-Pod using specialized brackets.
- Conforms to EN 360:2002 & EN 1496:2017 Class B

Unique Features -

- Retractable mode- enables easy movement of the user while working in confined space
- Winch mode- enables easy retrieval of the victim post fall arrest
- Comes with AS 162 Swivel Snap Hook with Impact Indicator

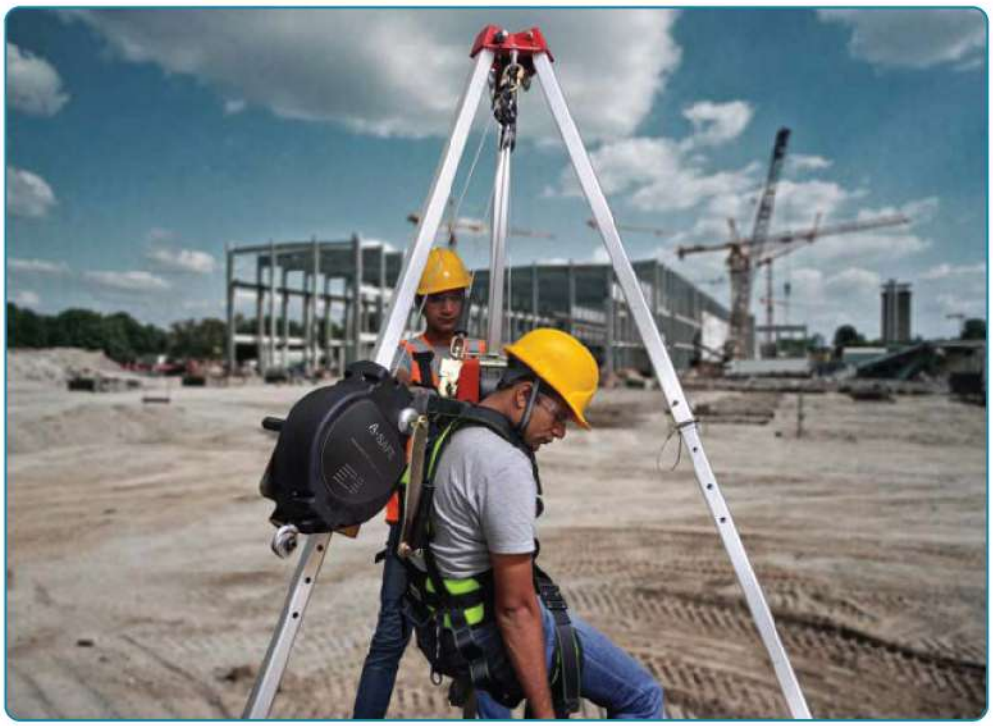
It is easy to shift to Winch mode from Block mode (& vice versa) following the given steps



These fall arrest blocks are manufactured by A-SAFE and conform to EN360 and EN1496, and fitted with an integrated rescue handle to enable rescue of a casualty after the fall has been arrested.

Retrieval blocks are often fitted to confined space systems, though are also often used as a stand alone fall arrest & rescue system.

Having the winch built in to the Retractable Block, indicates that the user already has a Rescue plan, which is the requirement of the Fall Protection directive for work at height.



Retractable Fall Arrester Blocks

A-SAFE Retrieval Retractable Blocks

10m Lanyard Length

PCGS 10R	5.45kg

20m Lanyard Length

PCGS 20R	9.20kg

25m Lanyard Length

PCGS 25R	14.1kg

30m Lanyard Length

PCGS 30R	14.5kg

Retractable Fall Arrester Blocks

AS2002SW
Retractable Webbing Fall Arrester(Swivel)

- Having a Swivel arrangement at anchorage end with fall indicator With a protection casing. Having a retractable webbing of width 47 mm,
- Length 2.50M
- Incorporated with an Energy Absorber for shock absorption
- Supplied with 1 Steel Karabiner AS112 at the Anchorage as well as at attachment end
- Has a protective casing
- Minimum Breaking Strength 15 KN

Conforms to : EN 360 : 2002

Weight : 1.40 Kg.

PCWB02, PCWB3.5, PCWB05
Retractable Block-Polymer Casing with Webbing

- Casing made up of high impact strength Polymer, to prevent breakage and is nearly indestructible
- Comes in 25 mm width webbing
- Minimum Breaking Strength 15 KN

Conforms to: EN 360 : 2002

Model	Length of Webbing	Weight (Kg)
PCWB02	2.0 mtr	1.30
PCWB3.5	3.5 mtr	1.60
PCWB05	5.0 mtr	2.36

Polymer Casing Retractable Block with Wire Rope Retractable Lanyard

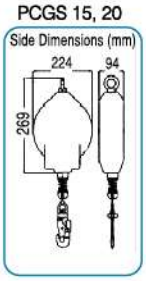
PCGS05, PCGS06, PCGS10, PCGS15, PCGS20, PCGS25, PCGS30
Retractable Block-Polymer Casing with G.I. Wire Rope

- Casing made up of high impact strength Polymer, to prevent breakage and is nearly indestructible
- Comes with Galvanized Steel Wire Rope of dia 4.5mm

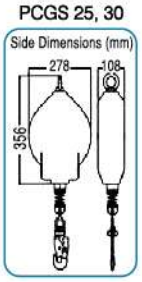
Minimum breaking strength 12 KN

Conforms to: EN 360 : 2002

PCGS 15, 20



PCGS 25, 30



Model	Length of Wire Rope	Weight (Kg)
PCGS 05	5.0 mtr	2.89
PCGS 06	6.0 mtr	2.97
PCGS 10	10.0 mtr	3.88
PCGS 15	15.0 mtr	6.40
PCGS 20	20.0 mtr	7.15
PCGS 25	25.0 mtr	12.50
PCGS 30	30.0 mtr	12.80

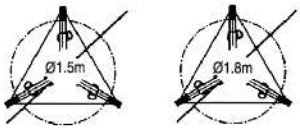
Confined Space Entry

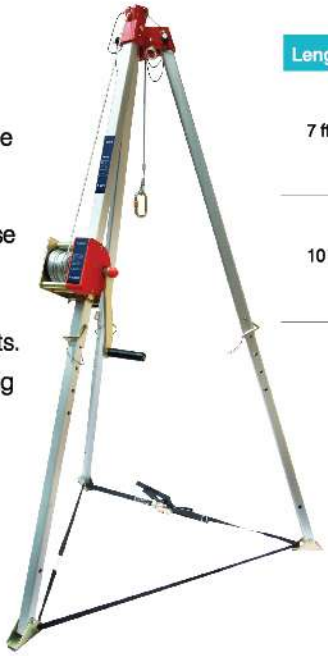
Tripod & Winch

A-SAFE Tripod is a product that can be used for easy access by a worker into challenging areas of activity like Confined Spaces.
It provides a safe and suitable anchorage for controlled ascent and descent, as well as protection from falls in such areas.

AS800
TRIPOD & BAG

- For access in confined spaces
- With two mounted pulleys at head of Tripod in the prolongation of the main leg for passing a cable
- Fully adjustable aluminum telescopic legs. Steel support shoes provided with rubber sole to increase friction and impart more stability
- Strength of anchorage point greater than 10 KN
- Having two auxiliary eye bolts as attachment points.
- Every Tripod provided with inbuilt fixture for attaching our winch AS801
- Aluminum alloy cast head, legs in aluminum
- Compliance EN 795 CLASS B





Length	Specification	Compliance
7 ft.	• Fully adjustable telescopic legs, adjustable height from 1.15m to 2.15m • Wheelbase (Footprint) : 1.5m Diameter • Weight: 13 kg • Maximum load capacity: 500kg	EN 795 CLASS B
10 ft.	• Fully adjustable telescopic legs, adjustable height from 1.9m to 2.9m • Wheelbase (Footprint) : 1.8m Diameter • Weight: 15 kg • Maximum load capacity: 500kg	

CE

A-SAFE Rescue Winches

A-SAFE Winches are the perfect solution for raising or lowering of personnel or material into confined spaces.

Class A - Winches : A-SAFE offers a range of class A winches, which provide retrieval for the purpose of rescue, by raising a victim from confined spaces.

AS 801-20M, AS 801-25M Winch

AS 801-40M Winch

	AS 801-20M, AS 801-25M	AS 801-40M
Winch Line	Galvanized Steel wire rope of dia 4.5mm	Galvanized Steel wire rope of dia 4.5mm
Length of cable	20mtrs & 25mtrs	40mtrs
Connector	Steel Screw Locking Karabiner Ref. AS 112	Steel Screw Locking Karabiner Ref. AS 112
Compatibility	Can be mounted on Tripods, Megapod, Hexapod z& K-Pod with the help of their universal mounting brackets respectively	Can be mounted on Tripods, Megapod, Hexapod z& K-Pod with the help of their universal mounting brackets respectively
Conforms to	EN 1496:2017 (Class A)	EN 1496: 2017(Class A)

Maximum Lifting load capacity as per EN 1496 : 135 kgs
Maximum Lifting load capacity as per machine directive 2006/42/EC : 250 kgs

Tripod Bag

Confined Space Entry

A-SAFE Winches

Class B - Winches : These winches by A-SAFE are incorporated with secondary brake mechanism and are used for both raising and lowering personnel.

AS 817
Winch

	AS 817
Winch Line	Galvanized Steel wire rope of dia 4.5mm
Length of cable	20mtrs
Connector	Steel Swivel Snap Hook Ref. AS 162
Compatibility	Can be mounted on Tripods, Megapod, Hexapod & K-Pod with the help of their universal mounting brackets respectively
Conforms to	EN 1496: 2017(Class B)
Inbuilt Shock Absorption	Yes

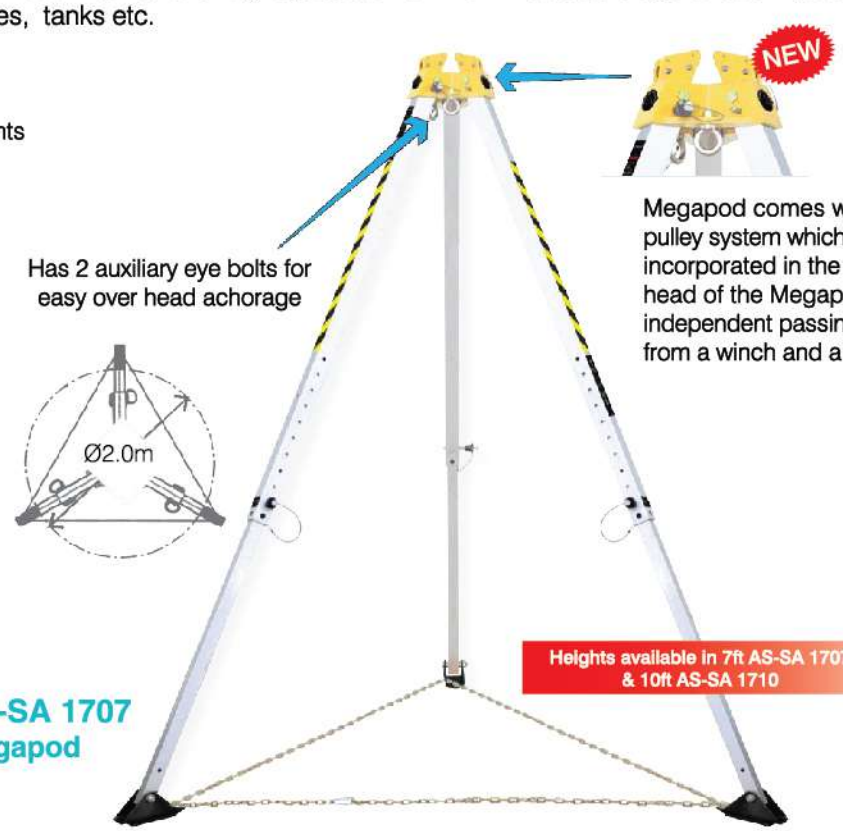
Maximum Lifting load capacity as per EN 1496 : 135 kgs
Maximum Lifting load capacity as per machine directive 2006/42/EC : 250 kgs

Megapod

When it comes to confined space entry / rescue, it is essential that the equipment operates perfectly and quickly. Keeping this in mind A-SAFE introduces Megapod, a convenient product that provides a stable overhead anchorage point.

The Megapod comes with more widened and fully adjustable Aluminium Telescopic legs for use in particularly challenging area of Work eg. Manholes, tanks etc.

- With Larger Extra Foot Prints
- Heavy duty
- High Strength



AS-SA 1707
Megapod

Confined Space Entry

A-SAFE Megapod

- The Megapod is equipped with high quality, rugged systems that will ensure top performance when it is needed the most.
- A-SAFE Megapod is made from Aluminium hence is extremely lightweight and portable, easily set-up by just one worker and can be transported from one work area to another.
- Ideal for confined space entry and emergency rescue applications. Can be used easily with all A-SAFE Winches and fall arrest devices eg. Blocks.
- Inner & Outer Adjustment can be achieved by Sliding Telescope Legs.
- Can be used with all the Winches namely AS 801, AS801-40M, AS-817, AS818, AS818(SR), AS818(C) & Retrieval Fall Arrester Blocks PCGS 10R, PCGS 20R & PCGS 30R with the help of their universal mounting brackets for winches & blocks respectively strength of anchor point greater than 23kN
- This Megapod is provided with Megapod bag Ref. BG 62.

Ref. No	Min. & Max. Distance between the Legs
AS-SA1707	0.85 m & 1.23 m
AS-SA1710	0.96 m & 1.72 m.

Ref. No.	Length	Adjustable Height	Wheelbase Footprint (Ø)	Weight	Maximum Load Capacity	Compliance
AS-SA 1707	7 ft	1.32m to 2.13m	1.21m to 2.0m	19.0 kg	500 kg	EN 795:2012, Type B & ANSI Z 359.1-2007
AS-SA 1710	10 ft	2.22m to 3.14m	1.70m to 2.47m	23.83 kg	500 kg	

Mounting Brackets for Megapod : AS-SA17		
Mounting Bracket	Picture	Bracket used for Mounting
AS-SA1725		For all A-SAFE winches Ref. AS 801, AS 801(40), AS 817, AS 818, AS 818 SR, AS 818(C)
AS-SA1726		For all Retrieval Blocks Ref. PCGS 10R, PCGS 20R PCGS 25R, PCGS 30R

Other significant features of A-SAFE Megapod

- Locking legs
- Simple detent pin style adjustment
- Quick-mount mechanical device bracket
- Safety chain to prevent movement, and safety shoes that incorporate a rubber sole for flat surfaces, and spiked edges for slippery surfaces.

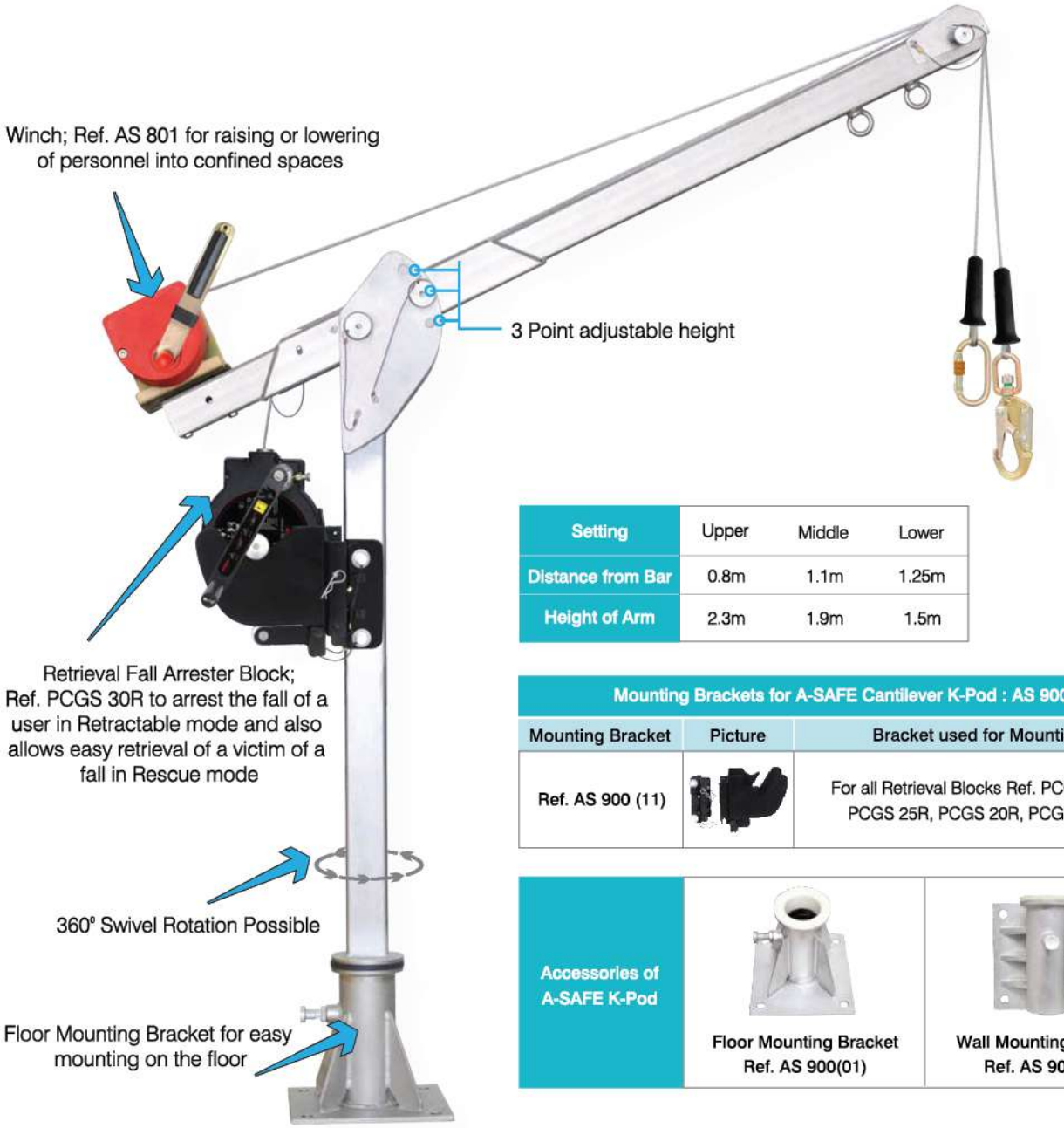
BG 62
Megapod Bag

Confined Space Entry

A-SAFE Cantilever K-Pod AS 900

AS 900
A-SAFE Cantilever K-Pod

- A-SAFE offers K-Pod which provides a safe and sure system for easy access to confined spaces. The K-Pod is an ideal choice to provide overhead anchorage which can be mounted on different bases and it conforms to EN 795 : 2012 Type A
- The K-Pod is made of highly corrosion resistant stainless steel, and can swivel a complete 360 degrees on its mounted base, hence providing a versatile reach and access.
- The unique feature is that the height of the Cantilever arm of the K-Pod is adjustable at 3 defined points, with upper height adjustment of 2.3m, middle arm adjustment of 1.9m, and the use of the K-Pod even in those areas where the roof height is small.
- The K-Pod can be easily mounted on the floor as well as on the wall through special floor and wall mounting brackets which are made available as per need. The K-Pod can also be mounted on the floor of heavy vehicles, hence making it extremely versatile in use.
- A-SAFE Winch AS 801, AS 801(40), AS 817 & AS 818 can be easily mounted on to the K-Pod with the help of stainless steel fasteners.
- Retrieval Fall Arrester Block Ref. PCGS 30R, PCGS 20R & PCGS 10R can also be installed for easy retrieval & arresting the fall of the user using the specialized universal mounting bracket Ref. AS 900(11)



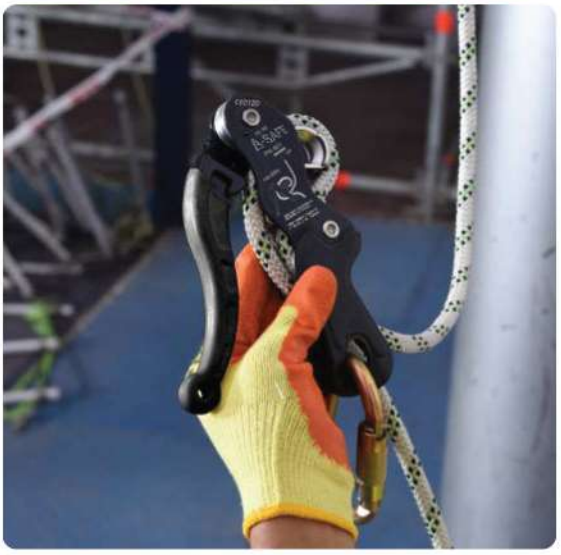
Setting	Upper	Middle	Lower
Distance from Bar	0.8m	1.1m	1.25m
Height of Arm	2.3m	1.9m	1.5m

Mounting Brackets for A-SAFE Cantilever K-Pod : AS 900		
Mounting Bracket	Picture	Bracket used for Mounting
Ref. AS 900 (11)		For all Retrieval Blocks Ref. PCGS 30R, PCGS 25R, PCGS 20R, PCGS 10R

Accessories of A-SAFE K-Pod		
	Floor Mounting Bracket Ref. AS 900(01)	 Wall Mounting Bracket Ref. AS 900(02)

Rope Access & Rescue

Rope Access



PN 401
Grip Descender

- Material : Aluminium Alloy
- Ideal for descent on a single rope.
- It is equipped with a unique Self Braking System which initiates the brake as soon as the handle is released, orclasped too tightly
- Works on 10.0 mm - 12.0 mm dia Kernmantle rope for 12841:2006 Type C & on 11.0 mm dia Kernmantle rope for EN 341:2011 Class A
- Equipped with Polymer Coated Cover which prevents the user from heat generated during descent
- Net Weight: 340 gm
- Finish: Coloured, Anodized
- Conforms to EN 12841:2006 Type C & EN 341:2011 Type 2 Class A

PN 410
Descender - Jumper

- Material : Aluminum Alloy, light in weight & durable.
- Can be used for both ascent and descent on a single rope.
- It is also equipped with a unique Self Braking System which initiates the brake a soon as the handle is released or clasped too tightly.
- It is provided with a safe locking eye which prevents the rope from sliding out, when operating as a Descender.
- Equipped with Polymer coated cover for comfort & ease during descent.
- Works on 10.5 mm - 12.0 mm dia Kernmantle rope for 12841: 2006 Type C & on 11.0 mm dia Kernmantle rope for EN 341:2011 Class B
- Net weight : 440 gm
- Finish : Coloured, Anodized
- Conforms to: EN 341 Type 2 Class B & EN 12841

Rope Access & Rescue

Rope Access

CE

AS 431
Figure of 8

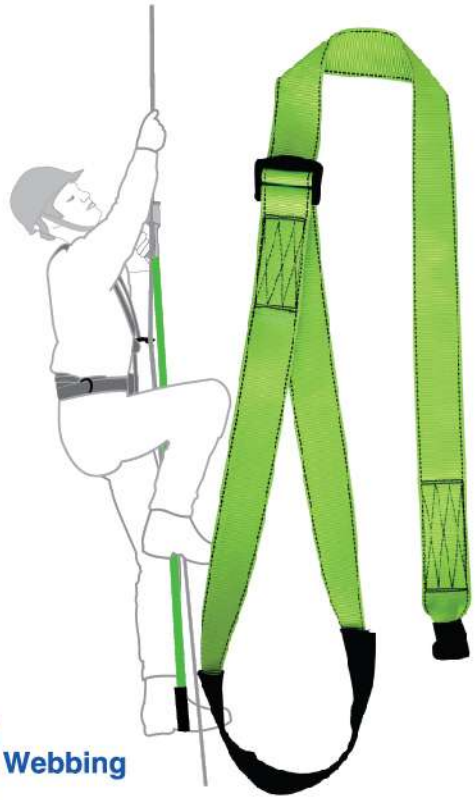
- Material : Aluminium Alloy
- Inner dia Big: 52 mm, S mall:26 mm
- Height: 145 mm
- Weight: 136 gm
- Minimum Breaking Strength: 50 kN
- Can hold a weight upto 136 kgs
- Finish: Natural Silver, Coloured, Anodized



CE

AS 402(R), AS 402(L)
Rope Clamp

- Material: Aluminium Alloy
- Net Weight: 195 gm
- For use on single rope 10mm to 12mm Diameter Kernmental Rope
- Finish: Coloured, Anodized
- Conforms to EN 567:2013



AS 402(A)
Adjustable Webbing Foot Loop

- Material: 44 mm Polyester Webbing
- Attached to the Ascending rope clamp for rope ascents.
- Underfoot strap is abrasion - resistant and is slightly rigid to make it easier to step into.
- Length easily adjusted with the
- Combination Buckles

CE

AS 405
Rope Clamp

- Material: Aluminium Alloy
- Net Weight: 157 gm
- For use on 10 to 12mm dia Kernmantle Rope
- Finish: Coloured, Anodized
- Conforms: EN 567:2013

Rope Access & Rescue

Rope Access

A-SAFE Rigging plate is designed to organize & provide multiple anchor points in multiple directions for superior versatility.

Eye of the plate is capable to connect the Karabiners having diameter of dia 19mm.

AS-PRP01
Rigging Plates

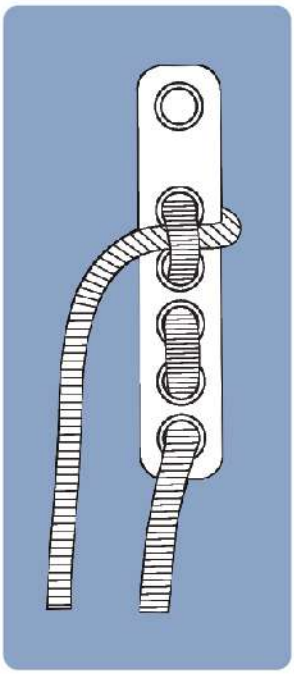
NEW

AS-PRP02
Rigging Plates

NEW

Ref. No.	Material	Weight	Minimum Breaking Strength	Finish	Conforms to
AS-PRP01	Aluminium Alloy	53.5 gms	45 kN	Natural Silver / Coloured Anodized	CNB/P/11.114
AS-PRP02		210.0 gms			

NEW



AS- ARC 04
Rope Termination Anchor

Rope Termination Anchor is an ideal choice to terminate 16 mm textile rope Lifelines. It is used to integrate an anchorage connector with a vertical lifeline system.

How to Install & use:

This Anchor has a total of six holes. The top hole constitutes the connection point to the anchorage. The rope is threaded in the other five holes. It has to be connected to an anchor point using an auto locking Karabiner.

Application:

Is best suited for Constructions, Manufacturing, Spray Painting, Welding, Mining, Oil & Gas, Chemical, Electric Utility, Telecommunications, General Industry, Automotive, Scaffolding etc.

Features:

- Light in weight
- Extremely easy to use
- Eliminates the need for Knots, splicing or swaging
- Provides Convenient lifeline connection point
- Allows installations without a traditional anchorage point
- Is Reusable
- Stays tight, while always remaining simple to untie

Ref. No.	Material	Weight	Minimum Breaking Strength	Finish	Conforms to
AS-ARC 04	Aluminium Alloy	248.5 gms	23kN	Natural Silver / Anodized Coloured	CNB/P/11.114

Rope Access & Rescue

Pulleys

UIAA CE

Aluminium Single Pulley
Single Side Attachment

AP 012

UIAA CE

Aluminium Double Pulley
Double Side Attachment

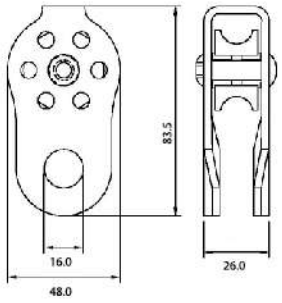
AP 013

UIAA CE

Aluminium Single Pulley
Double Side Attachment

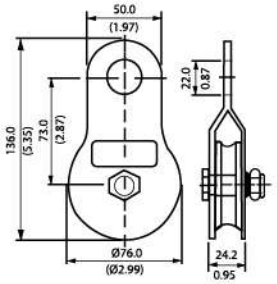
AP 014

Ref. No.	Material	Weight	Minimum Breaking Strength	Finish	Used on	Compliance
AP 012	Aluminium Alloy	230 gms	36kN	Natural Silver / Coloured Galvanized	can be used on a Rope of dia 16mm	EN 12278:2007
AP 013		410 gms				
AP 014		275 gms				



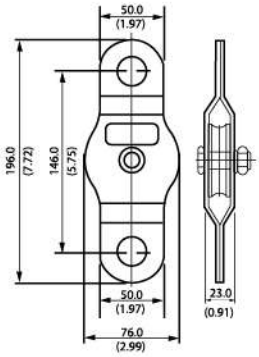
AP011
Single Aluminium Anchorage Pulley

Material : Aluminium alloy
Minimum Breaking Strength : 20 KN
- For use on maximum 12 mm rope
- Anodized finish



AP001
Single Anchorage Pulley

Material: Steel
Minimum Breaking Strength : 15 KN
Net Weight: 412.0 gm
Conforms to: ANSI Z 359.1 and EN 353 : 2002



AP002
Double Anchorage Pulley

Material: Steel
Minimum Breaking Strength : 15 KN
Net Weight: 500.0 gm
Conforms to: ANSI Z 359.1 and EN 353 : 2002

Rope Access & Rescue

Accessories

A-SAFE also provides equipment which when used, aid in easy rescue and rope access operations.

AS-ARC 02
Edge Protective

- A-SAFE Edge Protector made of Stainless Steel, protect the rope from abrasion against an edge.
- The edge Ring-Guides on the angle of the edge-protecter keep different rope anchor lines from getting entangled over the edge.
- Design: Angle Shaped Edge Protector.
- Material: Stainless Steel.
- Finish: Polished
- Weight: 570gm

AS 852
Evacuation Triangle

- To be used for rescue of injured personnel.
- Contains 3 metallic D-Rings at attachment elements.

IMP 005(01)
Spreader Bar

Is available as an optional Accessory to the Pilot Chair, Provided on request.

IMP 003
Spreader Bar

This Spreader Bar is used in conjunction with the A-SAFE harness for raising and lowering a person during rescue. The attached webbing loops can be used to secure victim's arms when lifting or lowering.

IMP 005
Pilot Chair

- Ergonomic and comfortable working chair
- For vertical ascent and descent
- Spreader Bar available as optional accessory
- Conforms to EN 1498

Rope Access & Rescue

Komfy Kruze System- A Versatile Ascent-Descent Rescue Roll System by A-SAFE

CE

A-SAFE Komfy Kruze Ascending & Descending Rescue system allows the user to raise and lower himself with ease while working at a height in suspended position. The device is also used to rescue an individual by either raising or lowering the victim to the ground or next level.

A-SAFE Advantage

Unidirectional movement of the rope roller provides sufficient friction to the rope for controlled descent. The anti-reverting pulley counter-balances the body weight of the user, thus requiring minimum effort to operate.

Unique Features

- A single person can easily operate the device to raise or lower himself with considerable ease.
- Unidirectional movement of the rope-roller allows the rope to hold itself in place, hence prevents any reel-back.
- While use in suspended work positioning, the entire control of the device is in the hands of the user, hence ensures his complete safety.
- It is a versatile system made up of Aluminium and steel components, which are light in weight and highly corrosion resistant.
- The system is provided in a fully assembled factory fitted 3:1 or 5:1 hauling ratio.
- It comes with an Ascending Handle along with a Safety sling & specially designed control device PN 410. This arrangement stops the descent in case it is accidentally released.
- The rope used is a A-SAFE Kernmantle rope of Diameter 10.5mm. This rope is tested for strength, is abrasion resistant, and comes fitted in the system in lengths as per requirement.
- Suitable for use for maximum personal load of 150 kgs.
- Conforms to EN 341 Class A and EN 1496:2017 Class A.

PN 404 Features of Rescue Roll

- It operates in accordance with the principle of winding-contact friction, which results from the rope being wound around it. It can be turned freely in the anti-clockwise direction, while it locks in the clock-wise direction. This allows unidirectional movement of the rope, allowing effortless ascent and controlled descent.
- The device has a swivel-enabled ring at its anchorage termination. This unique feature allows it to easily rotate about its axis, incase the rope twists, hence prevents unwanted spinning of the user.
- It is made up of Aluminium alloy and stainless steel, and is highly corrosion resistant. The smooth finish ensures minimum abrasion of the rope that runs over it.
- The rope retention guide prevents the rope from twisting or overlapping, and also ensures that the rope is in constant contact with the rope roller, that controls the friction over the rope.
- Its special design also prevents the rope from slipping off the sides.
- The anti reversing pulley counter-balances the body weight of the user, thus requiring minimum effort to operate.

PN 660(3:1) Mechanical Advantage : 1/3

PN 660(5:1) Mechanical Advantage : 1/5

Rope Access & Rescue

Komfy Kruze System

The Komfy Kruze System is provided in configurations of two different hauling ratios 3:1 and 5:1.

They come pre-installed from the factory in a tangle-free packaging, enabling immediate and easy use when needed.

PN 404
Rescue Roll
For 3:1 = 1 Qty.
For 5:1 = 1 Qty.

PN 111(C)
Karabiner
For 3:1 = 5 Qty.
For 5:1 = 5 Qty.

AP 012
Aluminium
Pulley
For 3:1 = 1 Qty.
For 5:1 = Not use

Hook D Type
Aluminium Snap
For 3:1 = 1 Qty.
For 5:1 = 1 Qty.

PN 402(R) SL
Rope Clamp
For 3:1 = 1 Qty.
For 5:1 = 1 Qty.

AP 014
Aluminium
Pulley
For 3:1 = 1 Qty.
For 5:1 = Not use

AP 013
Aluminium
Pulley
For 3:1 = Not use
For 5:1 = 2 Qty.

PN 410
Descender
For 3:1 = 1 Qty.
For 5:1 = 1 Qty.

Kernmantle Rope Anchorage Line(10.5mm)
For 3:1 = 1 Qty. / For 5:1 = 1 Qty.

PN 803 (1.2m)
Cross Arm Strap

Rope Access & Rescue

Komfy Kruze System

CE

Knotless design The Rope is terminated by stitching & not by a knot, hence ensuring that the system is always intact, and no part gets disengaged.

The sling provided with the ascent handle- The ascent handle is provided with a Holding Sling. The Karabiner is connected to the sternal D-Ring of the use. In the event of accidental release of the handle, is still made accessible to the user...

BG 63
Kit Bag
For 3:1= 1 Qty. /
For 5:1= 1 Qty.

Descent Height	Configuration 3:1		Configuration 5:1	
	Length of rope	Ref.	Length of rope	Ref.
5m	20m	PN 660 (3/1)(05)	30m	PN 660 (5/1)(05)
10m	40m	PN 660 (3/1)(10)	60m	PN 660 (5/1)(10)
20m	80m	PN 660 (3/1) (20)	120m	PN 660 (5/1) (20)

R001 14mm.
Polyester Rope

Minimum Breaking Strength: 23 KN
Length: 200 M per roll

R002 11mm. and 12mm.
Kernmantle Rope

Minimum Breaking Strength : 23 KN
Length : 200 M per roll

Fixed Line Systems

VerticalL Anchorage Line System On Rigid Cable Line

CE

Conforms : EN 353-1:2014

System Ref: VERTEX PN 7000

System Specifications

Conforming to the Norm EN 353-1:2014 this vertical Fall Arrest system is an integrated solution to arrest the fall of a user who has to constantly climb up & down a ladder.

The Unique Feature of this system is a permanent installed Stainless Steel Shock Absorber at the top of the line which offers distinct advantage over the textile absorber used in other lines in term of UV degradation and resistance to harsh climate Conditions. Also the Shock Absorber is constructed of unique design that helps in easy installation of the system.

The Vertical Anchorage Line is made of Stainless Steel wire rope & is maintained in the rigid position by the use of 2 mounting brackets-one at the top & one at the bottom.

The Stainless-steel Rope Grab is directly connected to the user without any additional lanyard.

To maintain the rigidity & high tension in the anchorage line, a screw type mechanical tensioner is provided at the end of the anchorage line at the bottom, connecting it to the lower mounting bracket. The Tensioner is provided with a unique tension indicator which helps ensure appropriate tension is attained, and maintained in the line.

The system also has an Inspection Name Plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records.

Extremity Plates for Two Ladder Rungs

Extremity plate used to install a vertical anchor line made of SS wire Rope installed on a ladder with U-bolts & nylock nuts. Fixing on two rungs provides better structural strength to the system.

PN 7000(13)

PN 7000(13)(EC)

Ref. No.	Material	Finish	Minimum Breaking Strength	Net Weight	Conforms to
PN 7000(13)	Stainless Steel Grade 316	Electro Polished	NA	1.11Kgs ± 0.005Kgs	EN 795:2012 Type A
PN 7000(13)(EC)	Alloy Steel	Hot Dip Galvanized	23kN	1.10Kgs ± 0.005Kgs	

Fixed Line Systems

VERTEX PN 7000

CE

PN 7000 (02)
Shock Absorber

- Material: Stainless Steel 316
- Limits the impact of force in the event of fall to less than 6 kN

PN 9XXXSL
Wire Rope (Cable Wire)

(Where XXX is the Length of the wire rope in meters)

- Material: Stainless Steel 316
- Diameter: 8mm
- Construction: 7x19

PN 2001 (04)
Intermediate

- Material: Stainless Steel 316
- Recommended Installation- Every 10 m

PN 7000 (12)
Wire Rope Cap

- Material : Aluminium Alloy

PN 7000(16)
Inspection Plate

PN 7000 (01)
Mounting Bracket

- Material: Stainless Steel 316
- Breaking Strength > 23 kN
- Complies with EN 795 Type A

RG 02 (112)
Rope Grab

- Material of Rope Grab: Stainless Steel 316
- Material of Karabiner: Alloy Steel
- Anti inversion mechanism

PN 6000(01)
Set of 2 U-Bolts & 1 Thimble

- U- Bolts: Qty- 2 nos. Material: Stainless Steel 316
- Thimble: Qty- 1 no. Material: Stainless Steel 316

PN 7000 (05)
Tensioner

- Regulates tensioning of the cable. Equipped with a Tension Indicator
- Material: Stainless Steel 316.
- Quantity: 1 nos.

* Also supplied with carbon steel hot dip galvanized mounting bracket PN 7000 EC(01) to make the system economical

Fixed Line Systems

Vertical Anchorage Line System On Rigid Aluminium Rail

Conforms : EN 353-1:2014

System Ref: VERTEX PN 8000

System Specifications

This Vertical fall Arrest Anchorage system (Conforming to EN 353-1:2014) is an integrated Fall Arrest solution made of a Vertical Aluminium Alloy Guide Rail over which glides a Guided-Type Fall Arrest Trolley.

The line is constructed by attaching the Aluminium rail Intermediates of length 3 mtrs. in series using a Junction to connect them to each other, and Rung Clamps to affix them to the ladder rungs. The trolley moves up and down on the line accompanying the user who is connected to it with an Auto-locking Steel Karabiner.

In the event of a fall, the trolley which is inbuilt with Shock Absorption feature, immediately locks over the Rail, thus arresting the fall. Also, while not in use, the Uni-directional locking system of the Trolley prevents it from sliding down on its own.

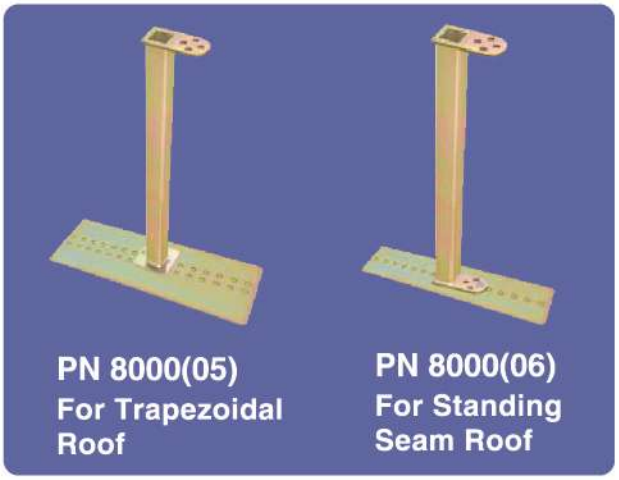
The Rail comes with an Extension Arm that curves at the Ladder-end over the working platform. This allows the climbers to be connected with the trolley even at the Ladder termination, ensuring complete safety.

The bottom most section is the Aluminium Rail Extremity which is equipped at the end with a lock that prevents the trolley from moving out of the rail.

The system also has an Inspection Name Plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records. One stainless steel cable ties are used to fasten the System Name Plate to the structure. At time of installation, the relevant details are punched on the plate by a number punch. The revalidation dates are punched each year on the plates after inspection and revalidation.

This system can be used on telecommunication towers, radio and TV masts, power supply and hydroelectric installations, wind power facilities, construction, chimney and industrial plants, buildings and facades, crane installations, shafts and manholes, aircraft hangars and for loading/ unloading of trains and vehicles, petrochemical plants, on-shore and off-shore oil rigs, and ship-building.

Support for Alu Extension



PN 8000(05)
For Trapezoidal Roof

PN 8000(06)
For Standing Seam Roof

- Support for Alu Extension on the Landing Platform

Fixed Line Systems

VERTEX PN 8000

CE

PN 8000 (02)
Alu Extension

- Material: Extruded Aluminium Alloy
- Length: 1.5 m

PN 5000 (08)
Junction

- Used to connect two rails together.
- Material: Stainless Steel 316

PN 5000 (01)
Aluminium Rail Intermediate

- Material: Extruded Aluminium Alloy
- Length: 3.0 m

PN 111
Karabiner

- Quarter Turn Auto-locking Steel Karabiner
- Material : Alloy Steel

PN 8000 (01)
Vertical Trolley

- Material: Stainless Steel (316) Trolley with Brass wheel which provides frictionless movement
- Anti Inversion Pin

PN 8000 (03)
Rung Clamp

- Material: Stainless Steel 316
- Helps to Clamp the system onto the underlying ladder

PN 5000 (02)
Aluminium Rail Extremity

- Material: Extruded Aluminium Alloy. Locking Jib to prevent unintentional release of trolley from the rail.
- Length: 3 meter

PN 8000(09)
Inspection Plate

Fixed Line Systems

Vertical Anchorage Line System On Rigid Aluminium Rail

CE

Conforms : EN 353-1:2014

System Ref: VERTEX PN 9000

System Specifications

This is a complete Fall protection Ladder System which consists of Hot dipped galvanized Steel Ladder Rungs over which is fixed the Vertical Anchorage Rail made of Aluminium Alloy. This system is an ideal choice for use where there are no pre-fabricated ladders or climbing structures available for climbing and can be fitted over various structures using different types of fasteners.

The system conforms to EN 353-1:2014

The Rungs of the Ladder, made of Galvanized Steel, are fitted at a suitable distance from the underlying structure/ profile to allow enough foot space. The rungs also have a grooved surface that allows a slip-free grip while climbing.

The Aluminium Anchorage Rail fitted on to the center of the Rungs of the ladder is smooth and allows the Guided type Fall-Arrest Trolley to glide effortlessly over its length. This trolley moves up and down accompanying the user who is connected to it with the help of an Auto-locking Karabiner.

The Trolley is made of Stainless Steel and has wheels made of Brass, making the system highly corrosion resistant and extremely smooth in working.

In the event of a fall, the trolley immediately locks over the Rail, thus arresting the fall. Also, while not in use, the Uni-directional locking system of the Trolley does not allow it to fall freely down the Rail.

The system comes with an Extension Arm that curves at the Ladder-end over the working platform. This allows the climbers to be connected with the trolley even at the Ladder termination, ensuring complete safety.

The bottom most section is the Aluminium Rail Extremity which is equipped at the end with a lock that prevents the trolley from moving out of the rail.

The system also has an Inspection Name Plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records.

This system can be used on telecommunications towers, radio and TV masts, power supply and hydroelectric installations, wind power facilities, construction, chimney and industrial plants, buildings and facades, crane installations, shafts and manholes, aircraft hangars and for loading/ unloading of trains and vehicles, petrochemical plants, on-shore and off-shore oil rigs, ship-building.

Support for Alu Extension

PN 8000(05)
For Trapezoidal Roof

PN 8000(06)
For Standing Seam Roof

- Support for Alu Extension on the Landing Platform

Extendable Brackets for Vertical Lifeline

PN 9000 (13)

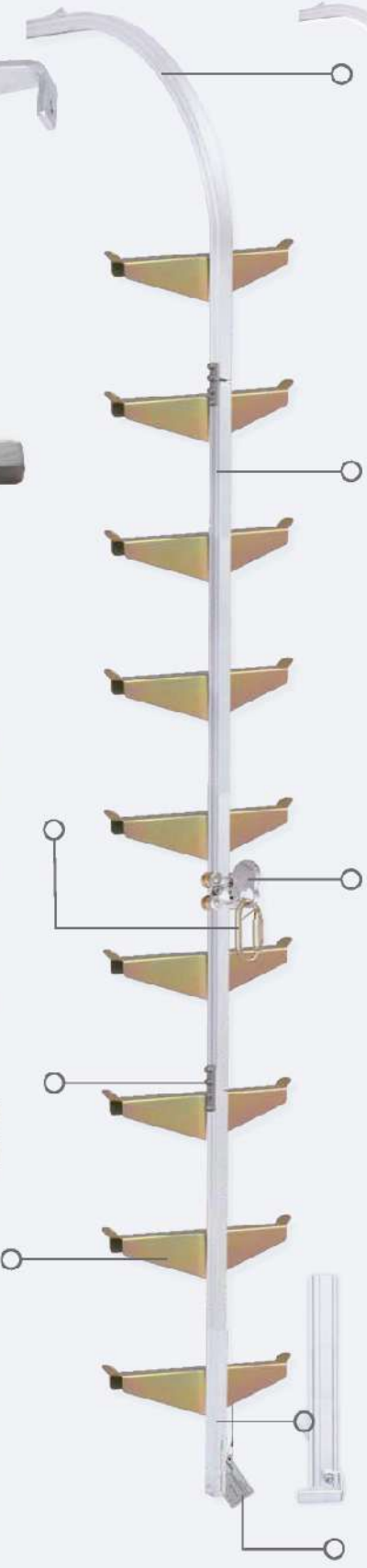
PN 9000 (13)EC

- Extendable Bracket for vertical aluminium rail lifeline systems on side cladding of pre engineered building
- Telescopic adjustment to adjust the clearance of the line from the vertical column & purlin

Fixed Line Systems

VERTEX PN 9000

CE



PN 5000 (06) Stainless Steel Ceiling Mounting Bracket

- Material: Stainless Steel 316
- Help to mount the ladder on to the underlying structure.

PN 5000 (03) Stainless Steel Mounting Nut

- To connect the rail to the mounting Bracket.
- Material: Stainless Steel 316
- Also available in Galvanized Steel version Ref. PN 5000 (06)R

PN 111 Karabiner

- Quarter Turn Auto-locking Steel Karabiner
- Material : Alloy Steel

PN 5000 (08) Junction

- Used to connect two rails together
- Stainless Steel 316

PN 9000 (01) Ladder Rung Assembly

- Ladder Rung Material: Hot dipped galvanized Steel

PN 8000 (02) Alu Extension

- Material: Extruded Aluminium Alloy
- Length: 1.5m

PN 9000 (03) Aluminium Rail Intermediate

- Material: Extruded Aluminium Alloy
- Length: 3.0m

PN 8000 (01) Vertical Trolley

- Material: Stainless Steel (316) Trolley with Brass wheels which provide frictionless movement. Anti inversion pin to prevent unintentional release of trolley from the rail.

PN 9000 (02) Aluminium Rail Extremity

- Material: Extruded Aluminium Alloy.
- Length: 3 m

PN 9000(12) Inspection Plate

* Also supplied with Alloy Steel Hot Dip Galvanized ceiling mounting bracket PN 5000(06)R & Alloy Steel Hot Dip Galvanized mounting nut PN 5000(05)R to make the system economical

Fixed Line Systems

Horizontal Anchorage Lifeline System On Rigid Cable Line

CE

System Ref: HORIZON PN 4000
(Roof Mounted)

System Specifications

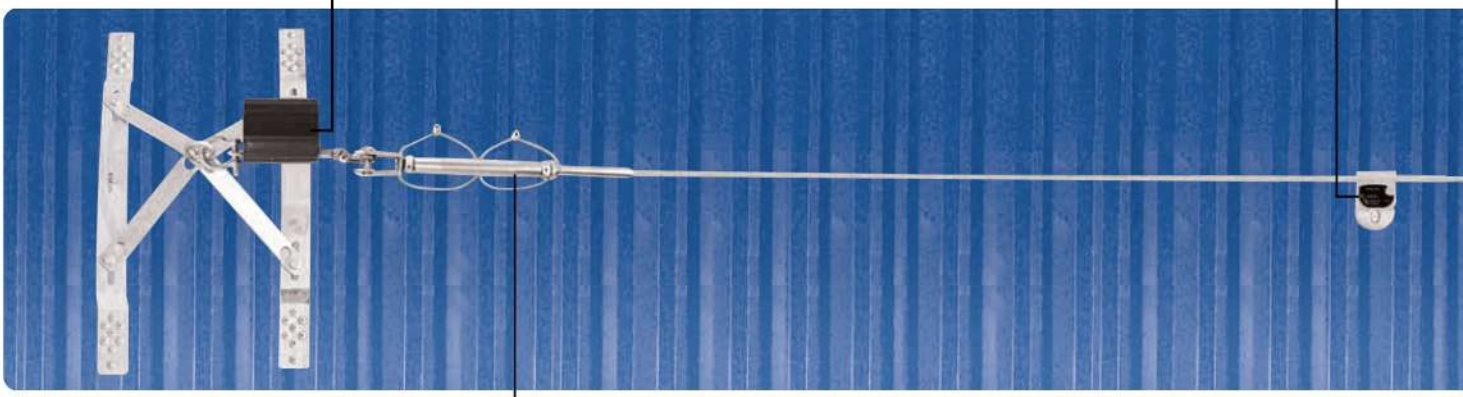
Horizon PN 4000 provides permanent anchorage to a user who has to constantly move along an elevated horizontal track. It comprises of a Stainless Steel Wire Rope (grade 316) of 8mm diameter running all along the horizontal track, and is installed at the ends using special End Extremity Posts. The Intermediate brackets hold the wire in position all along the length of the wire, and are installed at intervals of Maximum 15mtrs. The Wire Rope is maintained in tension with the help of Tensioner at one end, while the other end has a swageless termination on to the Eye of the End Extremity Post.

The Stainless Steel Carriage Body connects the user to the line with the help of a Lanyard and moves smoothly without interruption along the entire length of the Horizontal line and also through the Intermediate Brackets, thus ensuring 100% anchorage of the user at all times.

Conforms : EN 795:2012 Type C

PN 4000MU (02)
Shock Absorber
- Material: Stainless Steel 316

PN 4000 (08)
Carriage body
- Material: Stainless Steel 316
- Feature: Friction Free movement



PN 4000 (03)
Swaged Tensioner
- Regulates tensioning of the cable.
- Material: Stainless Steel 316.
- Feature: Swage termination.

PN 4000 (20)
Inspection Plate

For Trapezoidal Sheet		For Standing Seam Sheet	
			
Roof Top Anchor Post Extremity (Ref.SA07A)	Roof Top Anchor Post Intermediate (Ref.SA07B)	Roof Top Anchor Post Extremity (Ref.SA07C)	Roof Top Anchor Post Intermediate (Ref.SA07D)

Fixed Line Systems

CE

System Ref: HORIZON PN 4000
(Roof Mounted)

The line also has a Shock Absorber at one end which reduces the impact of fall both on the user as well as on the extremities.

The system also has an Inspection Name Plate for identification, traceability and maintenance of inspection records. One Stainless Steel Cable tie is used to fasten the System Name Plate to the structure. At time of installation, the relevant details are punched on the plate by a number punch. The revalidation dates are punched each year on the plates after inspection and revalidation.

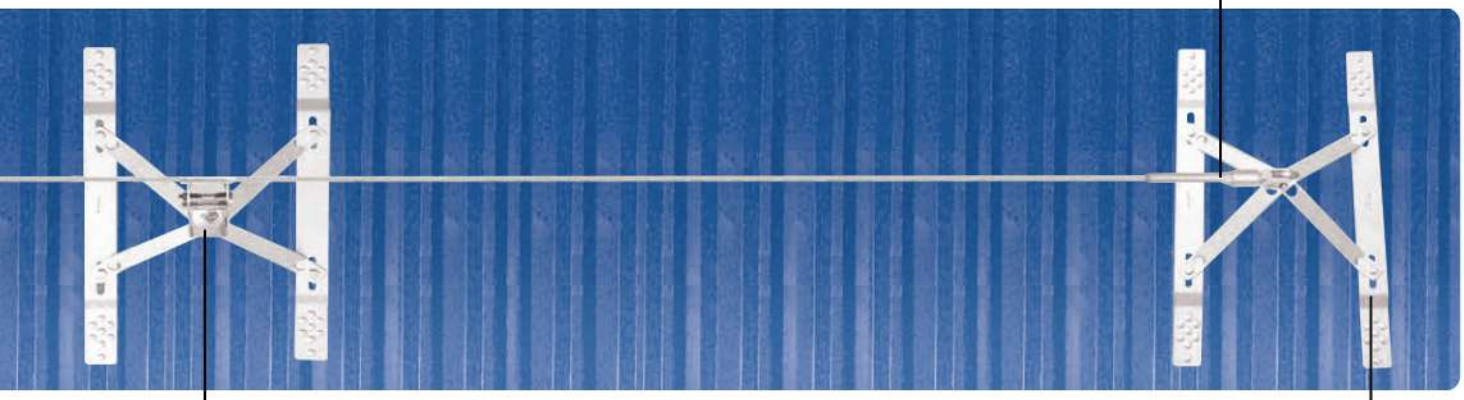
The System is versatile and can be installed on Walls, Floors, Ceilings as well as on Pre-engineered Building Roofs, Fragile Roofs, Airports using the same components by using appropriate posts to install the system to the client's receiving structure.

PN 9XXXS
Wire Rope (Cable Wire)
(Where XXX is the Length of the wire rope in meters)

- Material: Stainless Steel 316
- Diameter: 8 mm
- Construction: 7x19

PN 4000 (15)
Swaged Cable Extremity

- Allows crimping of the cable wire at the desired length, and eliminates danger of any loose wire.
- Material: Stainless Steel 316.
- Feature: Swaged termination



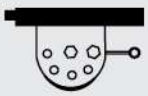
PN 4000 (10)
Intermediate

- Material: Stainless Steel 316
- Recommended Installation- every 15 mtrs.

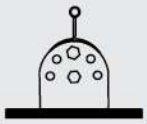
SA07 A
Roof top anchor post extremity

- Material: Stainless Steel 316

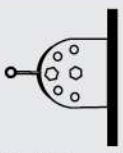
Intermediate Brackets Orientation for different Installation



Ceiling Mounting



Floor Mounting



Wall Mounting

Fixed Line Systems

Horizontal Anchorage Lifeline System On Rigid Cable Line

System Ref: HORIZON PN 4000
(Floor/Ceiling Mounted)

System Specifications

Horizon PN 4000 provides permanent anchorage to max. 4 users simultaneously, who has to constantly move along an elevated horizontal track. It comprises of a Stainless Steel Wire Rope grade 316 of 8 mm diameter running all along the horizontal track. It is installed at the ends using special Universal Extremity Plates. The Intermediate brackets hold the wire in position all along the length of the wire, and are installedat intervals of 10mtrs. to 15 mtrs. The line is maintained in tension with the help of Tensioner at one end, while the other end has a swage less termination on to the Universal Extremity plate.

The Stainless Steel Carriage Body connects the user to the line with the help of a lanyard/ retractable block, and moves smoothly without interruption along the entire length of the Horizontal line and also through the Intermediate Brackets, ensuring 100% anchorage of the user at all times.

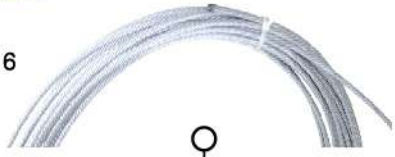
The system also has an Inspection Name Plate for identification, traceability and maintenance of inspection records. One Stainless Steel Cable Tie are used to fasten the System Name Plate to the structure. At time of installation, the relevant details are punched on the plate by a number punch. The revalidation dates are punched each year on the plates after inspection and revalidation.

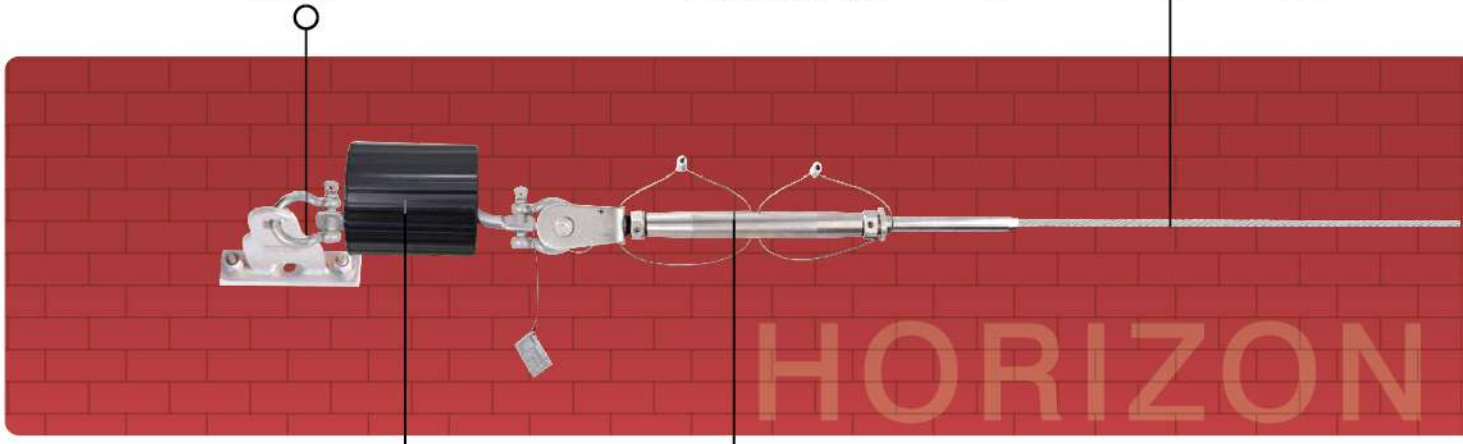
PN 4000 (09)
Universal Extremity Plate

- Material: Stainless Steel 316

PN 9XXXS
Wire Rope (Cable Wire)
(Where XXX is the Length of the wire rope in meters)

- Material: Stainless Steel 316
- Diameter: 8 mm
- Construction: 7x19





PN 4000MU (02)
Shock Absorber

- Material: Stainless Steel 316

PN 4000 (03)
Swaged Tensioner

- Regulates tensioning of the cable.
- Material: Stainless Steel 316. Feature: Swaged termination.

Fixed Line Systems

System Ref: HORIZON PN 4000
(Floor/Ceiling Mounted)

CE

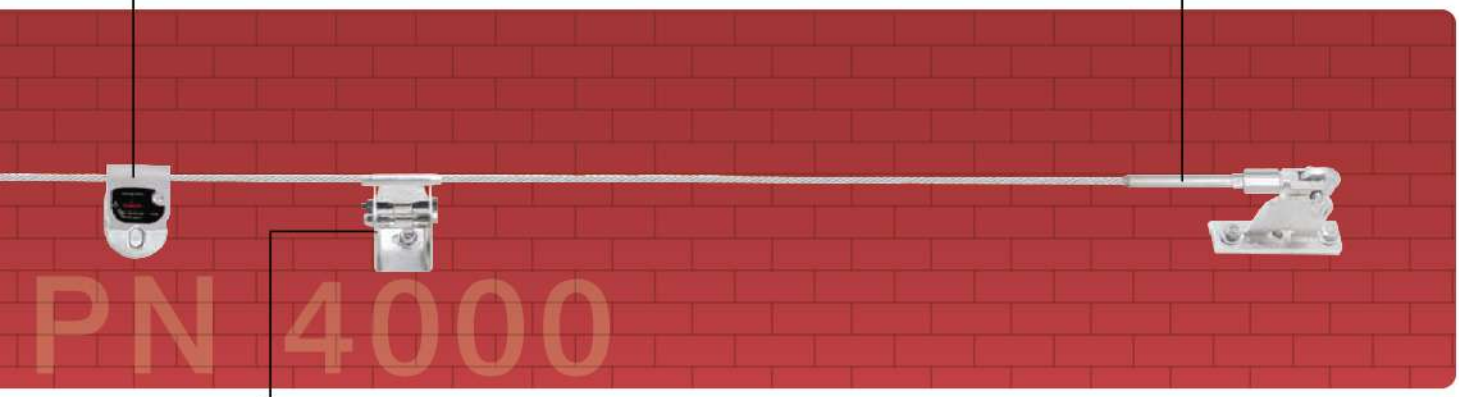
The System is versatile and can be installed on Walls, Floors, Ceilings, as well as on Roof Tops, using the same components by just altering the orientation of the Intermediate Brackets & selection of suitable anchor point

Horizon PN 4000 has the unique distinction of being certified by Sira for ATEX to comply with use in potentially explosive atmosphere (as per Potentially Explosive Atmospheres Directive 2014/34/EU), and conforms to Norms EN ISO 80079-36:2016, and EN ISO 80079-37:2016. The system is certified to be intrinsically safe, hence is an ideal choice for use in Industries like Petroleum/ Petro-Chemical Plants without fear of causing explosion due to any sparking. The system can also be used in Truck Loading / unloading, Advertisement Bill Boards, Industrial Cranes, Oversized machines, Reactors, Turbines etc.

The System is Conforms to EN 795:2012 Type C, TS 16415:2013 & Atex approved & for use in potentially explosive areas.

PN 4000 (08)
Carriage body
- Material: Stainless Steel 316
- Feature: Friction Free movement

PN 4000 (15)
Swaged Cable Extremity
- Allows crimping of the cable wire at the desired length, and eliminates danger of any loose wire.
- Material: Stainless Steel 316.
- Feature: Swage termination



PN 4000 (10)
Intermediate
- Material: Stainless Steel 316
- Recommended Installation- every 15 mtrs.

PN 4000 (20)
Inspection Plate

Optional

PN 7000(03)
Cable Extremity

PN 4000 (17)
Wheel Type Carriage Body

PN 4000 (03) SL
Tensioner

Fixed Line Systems

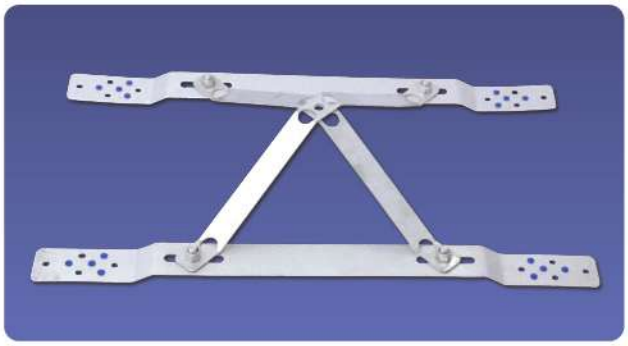
Roof Posts to Install Horizontal Lifelines on Galvolume / Trapezoidal Roof

CE

SA07 A
Roof Top Anchor Post Extremity

Roof Top Anchor Post Extremity is designed to be fixed on Galvolume / Trapezoidal roof top at the ends of a horizontal lifeline installed on the roof.

The slots in the base plate makes the post adjustable and allows it to be installed on roof sheets of different pitch/rib



SA07 B
Roof Top Anchor Post Intermediate

Roof Top Anchor Post Intermediate is designed to be fixed on Galvolume / Trapezoidal roof as Intermediate of a horizontal lifeline installed on the roof.

The slots in the base plate makes the post adjustable and allows it to be installed on roof sheets of different pitch/rib

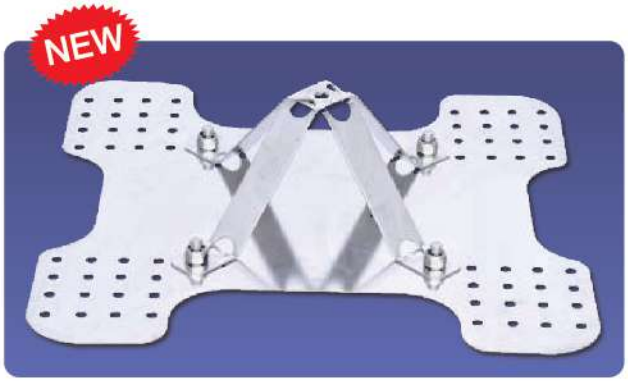
SA07 G
Roof Top Anchor Post Extremity for Galvolume Trapezoidal Roof

Roof top anchor post extremity is designed to be fixed on trapezoidal roof top at the ends of a horizontal lifeline installed on the roof.

The width of the base has an adjustable opening to adopt to the type of roof

The base plate has series of holes to fit on galvolume/ trapezoidal sheets of different pitch/rib

Anchorage eye on the top provides universal connection and used as an anchorage point.



SA07 H
Roof Top Anchor Post Intermediate for Galvolume Trapezoidal Roof

Roof top anchor post intermediate is designed to be fixed on trapezoidal roof top as intermediate of a horizontal lifeline installed on the roof.

The width of the base has an adjustable opening to adopt to the type of roof

The base plate has series of holes to fit on galvolume/ trapezoidal sheets of different pitch/rib

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
SA07 A	SS Grade 316	Electro Polished	3.7kgs	15kN	EN795:2012 TYPE-A, TS16415:2013
SA07 B	SS Grade 316	Electro Polished	3.5kgs	NA	NA
SA07 G	SS Grade 316	Electro Polished	3.40kgs	15kN	EN795:2012 TYPE-A, TS16415:2013
SA07 H	SS Grade 316	Electro Polished	3.19kgs	NA	NA

Fixed Line Systems

Roof Posts to Install Horizontal Lifelines on Standing Seam Roof

SA07 C
Roof Top Anchor Post Extremity

Roof Top Anchor Post Extremity is designed to be fixed on standing seam roof at the ends of a horizontal lifeline installed on the roof.

The slots in the base plate makes the post adjustable and allows it to be installed on roof sheets of different seam distance.

Suitable for seam distance between 270mm to 415mm

SA07 D
Roof Top Anchor Post Intermediate

Roof Top Anchor Post Intermediate is designed to be fixed on standing seam roof top as Intermediate of a horizontal lifeline installed on the roof.

Suitable for seam distance between 270mm to 415mm

SA07 I
Roof Top Anchor Post Extremity for Standing Seam Roof

Roof top anchor post extremity is designed to be fixed on standing seam roof top at the ends of a horizontal lifeline installed on the roof.

The base plate has series of holes to fit on standing seam roof with different seam distance between 300 mm to 500 mm

SA07 J
Roof Top Anchor Post Intermediate for Standing Seam Roof

Roof top anchor post intermediate is designed to be fixed on standing seam roof top as intermediates of horizontal lifeline installed on the roof.

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
SA07 C	SS Grade 316	Electro Polished	4.75kgs	15kN	EN795:2012 TYPE-A,TS16415:2013
SA07 D	SS Grade 316	Electro Polished	4.00kgs	NA	NA
SA07 I	SS Grade 316	Electro Polished	4.99kgs	15kN	EN795:2012 TYPE-A,TS16415:2013
SA07 J	SS Grade 316	Electro Polished	4.83kgs	NA	NA

Fixed Line Systems

Roof Posts to Install Horizontal Lifelines on Galvolume / Trapezoidal Roof

PN 4000(26) 60°

NEW

PN 4000(26) 90°

PN 4000(26) 120°

PN 4000(26)
Corner Post

Roof top Corner post is designed to be fixed on galvolume/trapezoidal roof at the curve of 60°, 90°, 120° of horizontal lifeline installed on the roof.

The base plate has series of holes to fit on galvolume/trapezoidal sheets of different pitch/rib

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PN 4000(26)	SS Grade 316	Electro Polished	3.86kgs	15kN	EN795:2012 TYPE-C TS16415:2013

Roof Posts to Install Horizontal Lifelines on Standing Seam Roof CE

PN 4000(27) 60°

NEW

PN 4000(27) 120°

PN 4000(27) 90°

PN 4000(27)
Corner Post

Standing Seam Roof top corner post is designed to be fixed on standing seam roof top at the curve of 60°, 90°, 120° of horizontal lifeline installed on the roof.

The base plate has series of holes to fit on standing seam roof with different seam distance between 300 mm to 500 mm

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PN 4000(26)	SS Grade 316	Electro Polished	3.86kgs	15kN	EN795:2012 TYPE-C TS16415:2013

Product Certification

- Systems Certification (ISO:9001:2015)
- A-SAFE is Certified as per ISO : 9001 : 2015, by SGS-UK.

Under this certification all processes and systems are stringently monitored to deliver quality product at each stage of manufacturing and service.

Product Certification (CE)

More than 100 products manufactured by A-SAFE are CE certified.

Our Certificates have been issued by Certifying Body SATRA-UK, in accordance with Article 10 of the PPE Directive 89/686/EEC. The Notified Body Number of SATRA is 0321.

Our on-going assessment body is SGS-UK which issues us our 11B certificate as per directive 89/686/EEC. The notified body number of SGS is 0120.

All our products are marked '0120'.

As per 11 B certificate all products marked CE 0120 must have a valid E.C. type examination certificate issued under Article 10.

Category	Norms
EN 358	Belt for Work Positioning & Restraint and Work Positioning Lanyards
EN 361	Full Body Harnesses
EN 813	Sit Harnesses
EN 362	Connectors
EN 354	Lanyards
EN 355	Energy Absorbers
EN 795	Anchor Devices - Requirements & Test.
EN 353-2	Guided type Fall Arrester including a Flexible Anchor Line
EN 353-1	Guided type Fall Arrester including a Rigid Anchor Line
EN 360	Retractable type Fall Arresters
EN 1496	Rescue Lifting Devices
EN 341 & EN 12841	Descender Devices for Rescue

Disclaimer

Working at height remains one of the biggest causes of fatalities and major injuries.

Common cases include:-

- Fall from height, like ladders, towers, etc. due to loss of balance
- Fall while working at height through fragile rooftops etc.

A-SAFE Fall Protection Equipment save the wearer from the risk of all such falls.

However, awareness to hazards at height is the responsibility of the worker.

A-SAFE equipment saves the fall – Subject to the below mentioned points: -

- Proper training of the user - Adequate training regarding hazards, equipment use, etc. must be provided to the user.
- Proper care of the equipment - The equipment should be used and maintained as per the Instructions Manual of the products.
- Medical Condition of the user - The User / Authority must ensure that the user is medically fit for work at height.
- The equipment should always be used under the supervision of Trained & Competent personnel.

A detailed Rescue Plan should also be in place and should be followed strictly in case of any emergency.

Information provided in this movie / catalogue / brochure is duly checked and is up to date. It is acquired through passing the product through several stringent quality checks by the Quality assurance team at A-SAFE.

Wherever required and necessary, A-SAFE reserves the right to change the product specification.

A-SAFE cannot be held responsible in case of any inaccuracies or omissions while use of product.

To seek advice in case of any doubt, please connect with authorized A-SAFE personnel.

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A-SAFE

PERSONAL PROTECTIVE EQUIPMENT