

KSTRONG[®]
UNRIVALED SAFETY.

FIXED LINE SYSTEMS



**Disclaimer**

The information provided in this catalog is based on the technical data that KStrong obtained under laboratory conditions and believes to be reliable. KStrong does not guarantee results and takes no liability or obligation in connection with this information. Since conditions of end-use are beyond our control, it is the user's responsibility to determine the hazard levels and the use of proper personal protective equipment. Persons having technical expertise should undertake evaluation under their specific end-use conditions, at their discretion and risk. Please ensure that this information is only to check that the product selected is suitable for the intended use. Any product that is damaged, torn, worn, or punctured should be discontinued from usage immediately.

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OPERATIONS AND TESTING

KStrong is backed by the largest vertically integrated manufacturing facility in the world, manufacturing all components of its entire product range from basic raw materials, all done in-house. Operations are performed using the best practices such as Six Sigma, Gemba (the real place), KAIZEN (Continuous Improvement), Poka-Yoke (Error Proofing) etc. Along with the sustainability of these practices, the operations are under constant vigilance and are continually improvised each day, involving better processes and technology at every step.

The manufacturing facilities, using best in-class state of the art machinery along with extremely skilled manpower involved in critical operations, produce the highest quality safety equipment from head to toe.



Product Design and Development



Wire Rope Manufacturing



Dynamic Performance Testing



Robotic Welding



Packaging

MISSION VISION

KStrong Unrivaled Safety

The founders of KStrong have been successfully manufacturing personal protective equipment globally for over 20 years. With the support of a large team of highly experienced research and product development specialists along with global manufacturing facilities, KStrong is poised to become the preeminent brand of choice for personal protective safety products. KStrong takes pride in taking careful measures to ensure all products meet applicable respective government codes and professional standards, such as EN, AS/NZS and ANSI. We look forward to helping your company protect its most valued possession, its workers!

Mission


To protect and improve the lives of workers by offering the most comprehensive line of safety equipment through a national distribution base that provides Unrivaled levels of service and value.

Vision

To become the premier global provider of personal protective safety equipment.

DOLOMITICERT
 Italian Institute for the Certification of Personal Protective Equipment
 S.C.A.R.L.

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ATTESTATION OF CONFORMITY
 number 222850

Verifications for anchor devices according to the Standard EN 795:2012
 "Personal fall protection equipment – Anchor devices"

Anchor device
 Model:
Davit Arm

Date: 26th of November 2022

Responsible for the evaluation
Luca Tamburini

Applicant:
KSTRONG ASIA PTE LTD.
 33A Chandler Road, - 219539 SINGAPORE - SINGAPORE

Note 1: The Attestation of Conformity loses its validity if any modifications are made as compared with the original and tested product.
 Note 2: DolomitCert only allows partial disclosure of the present Attestation of Conformity upon written authorization.
 Note 3: This Attestation of Conformity issued by DolomitCert is a voluntary basis.
 Note 4: Standard requirements applicable to the Product but not evaluated by DolomitCert are outside the scopes of the present Attestation of Conformity.
 Note 5: The present Attestation of Conformity based on the test results just performed on the same device, on samples supplied by the manufacturer holder of the present Certificate of Conformity. Compliance of Conformity number 1705 issued in date 18/10/2017 by DolomitCert Scout for the anchor device model "Davit Arm", variants "DAM2" or "DAM3", holder of the Compliance of Conformity is P.N. INTERNATIONAL.







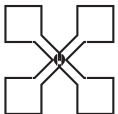
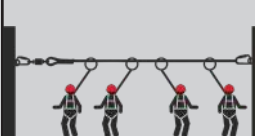
ANCCP
 Certification Agency

CERTIFICATION OF CONFORMITY
PPE 20928 AC 390

We hereby certify that on the product

Protection device against fall from a height
 Anchor device Type D Model: AFF5000 (having components) AFF51000, AFF51100, AFF51300, AFF51500, AFF51600, AFF51800, AFF52000, AFF52100, AFF52300, AFF52500, AFF52700, AFF52900, AFF53100, AFF53300, AFF53500, AFF53700, AFF53900, AFF54100, AFF54300, AFF54500, AFF54700, AFF54900, AFF55100, AFF55300, AFF55500, AFF55700, AFF55900, AFF56100, AFF56300, AFF56500, AFF56700, AFF56900, AFF57100, AFF57300, AFF57500, AFF57700, AFF57900, AFF58100, AFF58300, AFF58500, AFF58700, AFF58900, AFF59100, AFF59300, AFF59500, AFF59700, AFF59900, AFF60100, AFF60300, AFF60500, AFF60700, AFF60900, AFF61100, AFF61300, AFF61500, AFF61700, AFF61900, AFF62100, AFF62300, AFF62500, AFF62700, AFF62900, AFF63100, AFF63300, AFF63500, AFF63700, AFF63900, AFF64100, AFF64300, AFF64500, AFF64700, AFF64900, AFF65100, AFF65300, AFF65500, AFF65700, AFF65900, AFF66100, AFF66300, AFF66500, AFF66700, AFF66900, AFF67100, AFF67300, AFF67500, AFF67700, AFF67900, AFF68100, AFF68300, AFF68500, AFF68700, AFF68900, AFF69100, AFF69300, 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Standards

Standards		Description	PPE Type 3* EPI Type 3*	Not PPE Type 3** Not EPI Type 3**
EN 353-1		Guided type fall arresters including a rigid anchor line	✓	
EN 353-2		Guided type fall arresters including a Flexible anchor line	✓	
EN 795 Type A		Anchor device requiring the fixing of one or more structural anchors		✓
EN 795 Type B		Anchor device not requiring the fixing of one or more structural anchors	✓	
EN 795 Type C		Anchor devices using a horizontal flexible anchor line		✓
EN 795 Type D		Anchor devices using a horizontal rigid anchor line		✓
EN 795 Type E		Deadweight anchoring device	✓	
CEN/TS 16415:2013		Personal fall protection equipment - Anchor devices - recommendations for anchor devices for use by more than one person simultaneously		✓

Types of Anchors

A reliable anchor device is the most essential component of any personal fall protection system and is broadly classified as EN795:2012

Type A - Anchor device with one or more stationary anchor points.

Type B - Transportable Anchor device easily carried and assembled on site.

Type C - Continuous Anchor device using a flexible anchor line. (Eg. Steel wire rope/webbing/ synthetic ropes).

Type D - Anchor device using a rigid anchor line. (Eg. Aluminium Rails)

Type E - Dead weight Anchor device for use on surfaces up to 5° from the horizontal.

Single User Anchor Devices

Applicable standard: EN795:2012

This European Standard is intended for use as a standard guideline for Horizontal Lifeline Systems fall protection.

The scope and the requirements are based on the philosophy that anchor devices are rated to sustain the maximum dynamic force generated in a fall from a height by the mass of **one person** (100kg) including any equipment carried. The static strength tests are based on a minimum safety factor of 2 to allow for foreseeable misuse of equipment.

A static load of 12 kN is required to be held for a minimum of three minutes without failure.

A dynamic performance and integrity test, where a shock load (9 kN at mobile anchor point) is created by using a test mass of 100 kgs freely falling from a specific height connected to a synthetic lanyard. The Lifeline is further subjected to a static pull of 300 kgs for a period of 3 minutes to ensure that the same Lifeline can be used for rescue after a fall.

The Lifelines can be of single span of different lengths (e.g. truck loading /unloading activities), or long Lifelines with multiple spans (e.g. installed on roof). The multi span Lifelines may also have a corner. All configurations and lengths may not be possible to test, hence EN 795 propose dynamic and integrity test where the manufacturer is required to predict the forces at extremity and displacement in the cable in set configurations of the Lifeline. The forces predicted and the displacement of the cable measured during tests should be within a tolerance of 20%. For KStrong lifelines the longest span tested is 15 mtrs and shortest 5 mtrs.

As a result of static and dynamic test the system should not release the mobile anchor (carriage body).

Multi User Anchor Devices

Applicable standard: CEN/TS 16415:2013

In many situations, anchor devices are required for more than one user. especially in jobs which are carried out by more than one person. To ensure that everyone has the same level of protection from fall, there is a need for a different and more stringent approach.

In 2013 a technical sheet CEN/TS 16415:2013 was added to EN795:2012 to address the test requirements if the Lifeline is used by multiple users. The tests according to CEN/TS 16415:2013 is performed in addition to the test requirements of EN795.

The static load test increases the usual single user requirement in EN 795:2012 by 1.0 kN per extra user claimed (e.g. 13 kN for 2 users, 14 kN for 3 users and 15 kN for 4 users and so on).

The dynamic performance and integrity test requires a 200 kgs test mass to represent the fall of simultaneous users. For each additional user, a further dynamic performance test using a 100 kgs mass is carried out on the same system to simulate multiple users falling on the same anchor device (Lifeline).

The Lifeline is further subjected to a static pull of 600 kgs after the dynamic fall of 200 kgs for a period of 3 minutes to ensure that the same Lifeline can be used for rescue after a fall. Thereafter, for each additional user the static force is increased by 150 kgs (750 kgs for 3 users, 900 kgs for 4 user and so on).

After each dynamic drop test, the forces predicted at the extremity and the displacement of the cable measured during tests should be within a tolerance of 20%.

The maximum dynamic force recorded during the tests should not be greater than 50% of the system strength.

As per desired results of dynamic and static tests, the system at the extremity should not release the mobile anchor.

Multiple user anchor devices are not considered 'personal' protective equipment. For devices that will always be when used by two or more people simultaneously, it is recommended that before buying or using these devices, checks are made on the manufacturer's quality system and that evidence is sought to demonstrate compliance with **TS 16415:2013**.

Vertical Lifeline Systems on Wire Rope and Aluminium Rail Systems

Applicable standard: EN353-1:2014+A1:2017

This European Standard is intended to be used as a standard guideline for Vertical Lifeline Systems when used in personal fall protection systems.

The scope and the requirements are based on the philosophy that a guided type fall arrester including a rigid anchor line is rated to sustain the maximum dynamic load generated in a fall from a height by the mass of one person including any equipment carried.

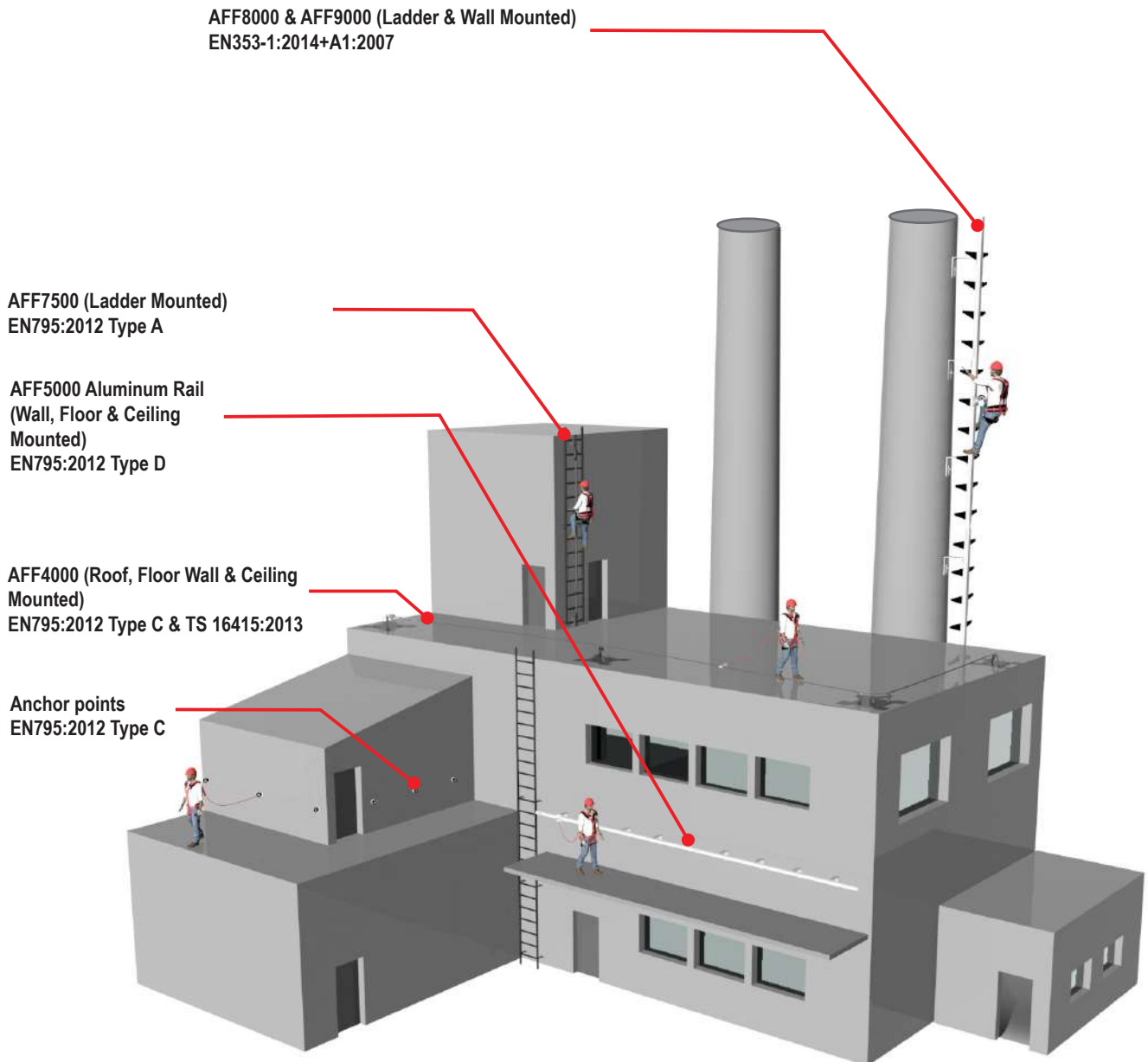
This European Standard applies to rigid anchor lines which are intended to be installed vertically.

Horizontal Lifeline Systems

AFF4000 Wire Rope (Roof Mounted)
AFF4000 Wire Rope (Wall, Ceiling & Floor Mounted)
AFF5000 Aluminum Rail (Wall, Floor & Ceiling Mounted)

Vertical Lifeline Systems

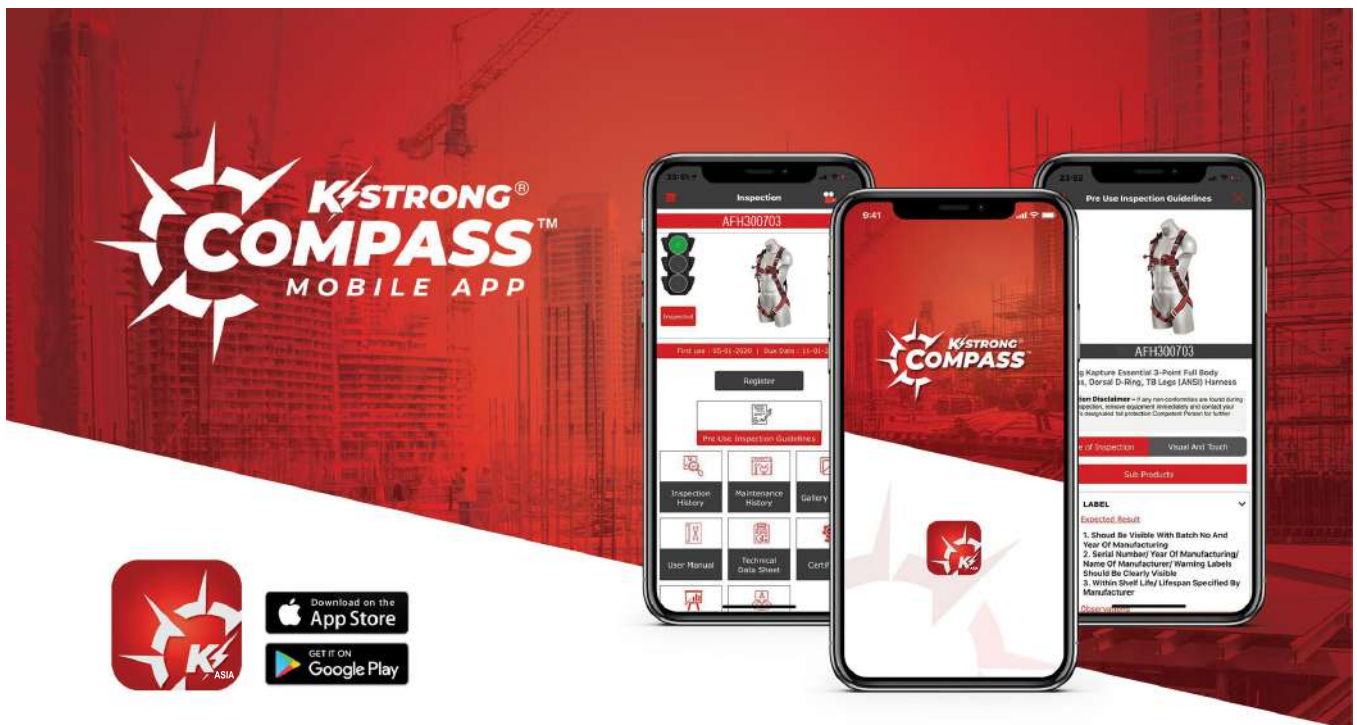
AFF6000 Wire Rope (Ladder Mounted)
AFF7000 Wire Rope (Ladder Mounted)
AFF7500 Wire Rope (Ladder Mounted)
AFF8000 Aluminum Rail (Ladder Mounted)
AFF9000 Aluminum Rail (Wall Mounted)





Complying with PPE regulation 2016/42, which indicates the need to have Competent Authorities inspect the Fall Protection Equipment at least once annually, Compass focuses on responsible after-sale services which include Inspection and revalidation of Personal Protective Equipment (PPE), Service and Repair of Retractable Fall Arrestor Blocks and Inspection, Repair and Revalidation of Fixed Line Systems (FLS) on an annual basis.

Maintains competent and vigorous after sale service establishments throughout Asia.



KStrong Unrivaled Safety

Lanyards – Self-Retracting Lifelines – Connectors – Anchors – Confined Space – Rescue Retrieval Equipment – Engineered Vertical and Horizontal Lifeline Systems

Fall protection products are lifesaving devices, and the mere procurement for your workforce does not guarantee complete safety. After making an investment in your fall protection equipment, it is critical that the end user is properly trained on its inspection and use, and is aware of the periodic maintenance process that requires that all personal protective equipment (PPE) be inspected in accordance to the requirements of employers, governmental codes and Standards such as EN and ANSI.

Chart a Course to Safety

The KStrong Compass™ is the fall protection industry's first "free at your fingertips" mobile application for fall protection equipment asset management. KStrong Compass™ is a cloud-based software app which relieves the user from a mountain of paper records. The unique AIR system (Automated Inspection Reminder system) reminds a user of a pending competent person inspection that is required to minimize accidents that may happen due to equipment that has not been properly inspected.

The KStrong Compass™ user management system allows equipment to be issued to individuals, thus ensuring accountability towards the upkeep of the equipment. The mobile app provides each user vital information on Daily inspections and periodic maintenance and helps in increasing the life of the equipment. By using KStrong Compass™ it allows companies to manage their PPE investment.



Key Benefit for All Company Risk Management and Safety Directors

During the one-time registration process, the user will be given the option of entering a second email address designated by their employer. Once the user registers or inspects a product, the nominated person will receive a notification via email. Management and Safety Officers can then access their KStrong Dashboard on their phone or computer to view the inspection status of all items registered to date in real time.



How to Identify a Product

Identifying a product through labels throughout its service life is difficult. The labels get damaged often making them difficult to read or become missing altogether over time. KStrong Compass™ has the unique ability to read QR codes, RFID tags, and can even directly scan product labels. Thus, identifying a product and its user is a click away.



What Does An End-User Need to Start Using KStrong Compass™?

To download the app, an iOS or ANDROID user can simply open the camera on their phone or device and scan the QR code, RFID tag, or Label included with every KStrong product, register when prompted, and user is now ready to see that products critical data including:

Date of Manufacture – Serial Number – Batch Number – Pre-use inspection tips and actions steps – User Manual – Specification Sheet – Declaration of Conformity (DoC) – Date of last Competent Person inspection and future inspection reminder setting options – Product Pics, Videos, PowerPoints, and more



Must be read Prior to Use

- Prior to use, ensure all operating procedures have been read and properly understood.
- This fall arrest system is only to be used by competent persons who have experience and training in the safe use of the system and associated equipment.
- Ensure all Local workplace OH&S requirements are identified and understood.
- A risk assessment with a safe work method procedure must be completed and approved by management prior to work commencing.
- The systems requires periodic inspection and maintenance by the manufacturer or their authorized representative as per EN365 of the PPE Regulation 2016.
- The system MUST NOT be used if the service date is overdue.
- A rescue plan must be formulated and ready for implementation prior to using any fall arrest system.
- Authorisation to access any risk area must be obtained from the person in control of the workplace.
- Only approved full body harness, Lanyard and PPE equipment certified to EN Standard is to be used with this system.
- Visually inspect the system for damage prior to use. The system must not be used if there is any deterioration or deformation of components or the structure to which the system is attached.
- If the safety system is damaged or has arrested a fall, discontinue use until it has been fully inspected and recertified by the manufacturer or their authorized representative.
- Ensure all fixings, fittings and components are securely attached. Any tightening, adjustment or replacement of components must be carried out by a competent Person.
- Users must not be allowed to work alone in fall arrest situations in case emergency rescue assistance or first aid is required.
- All applicable EN Standards, Local OHS Acts & Regulations, and Codes of Practice & Guidelines must be read and obeyed when using this safety system.

Instructions for Periodic Examinations

- As per EN 365 of PPE Regulation 2016, It is necessary to carry out regular periodic examinations. The safety of the users depends upon the continued efficiency and durability of the equipment.
- The personal protective equipment shall be examined at least every 12 months.
- For Corrosive/harsh environments, 6 monthly (more frequent inspection may be required).
- The periodic examination can only be carried out by the manufacturer or his authorized representative.
- The comments should be included in the check card of the equipment. After the periodic examination, the next due date for periodic examination will be determined.
- During periodic inspection it is necessary to check the legibility of the equipment marking.
- To check metals for sharp edge, Burs, Corrosion, bent profile distortion and opening & closing or such mechanisms for which that is intended for.

Remove from Service

- In case that it has been used to arrest a fall, the equipment must be withdrawn from use.
- Labels have been removed, are missing or illegible
- Excessive abrasive wear has occurred
- Broken fibres, tears, cuts, snags and splinters are present
- Deterioration or stretching has occurred
- Parts and mechanisms are not moving freely or are corroded
- There is excessive contamination not removed by approved cleaning methods

Job Safety Analysis

Before commencing the job, it is recommended that the service technician / installer completes a JSA form, to identify hazards at site and to decide the correct PPE they need to mitigate the hazard. Refer to the example below.

Section 1 Job details					
JSA title	Project name		Work order or PID No.		
	Principal contractor				
Location / address				Date/s of activity	
Prepared by		Date prepared		Signature	

Permits required				Isolations required	
<input type="checkbox"/> Confined Space	<input type="checkbox"/> High risk work rescue plan	<input type="checkbox"/> High voltage access	<input type="checkbox"/> Roof Access	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Hydraulic
<input type="checkbox"/> Work at height	<input type="checkbox"/> Excavation and trenching	<input type="checkbox"/> Energized work	<input type="checkbox"/> Other (please specify)	<input type="checkbox"/> Electrical	<input type="checkbox"/> Pneumatic
<input type="checkbox"/> Penetrating	<input type="checkbox"/> Grid mesh, flooring and guard rail removal	<input type="checkbox"/> Hot work		Site access required	<input type="checkbox"/> YES <input type="checkbox"/> NO

Section 2-Common hazards (Each Hazard identified below must be assessed)

Chemicals/hazardous substances		High-risk activities	
Name of chemicals or hazardous substance <input type="checkbox"/> SDS available		<input type="checkbox"/> Confined space	<input type="checkbox"/> Work at heights
		<input type="checkbox"/> Hot Work	<input type="checkbox"/> Excavation, trenching or penetrations
Energy sources		<input type="checkbox"/> Construction work	<input type="checkbox"/> Scaffolding
<input type="checkbox"/> Electricity	<input type="checkbox"/> Pressure	<input type="checkbox"/> Demolition	<input type="checkbox"/> Structural alterations
<input type="checkbox"/> Gas / Fuel	<input type="checkbox"/> Water	Work location	
Plant and equipment		<input type="checkbox"/> Sun	<input type="checkbox"/> Working over, in or near water
<input type="checkbox"/> Fixed Plant	<input type="checkbox"/> Mobile Plant	<input type="checkbox"/> Plants, Animals or Insects	<input type="checkbox"/> Contaminated / Flammable atmosphere
<input type="checkbox"/> Vehicles / boats	<input type="checkbox"/> Hand Tools	<input type="checkbox"/> Slips, trips and falls	<input type="checkbox"/> Work occurring in other areas
Manual tasks		<input type="checkbox"/> Biological hazards	<input type="checkbox"/> Fire
<input type="checkbox"/> Repetitive tasks	<input type="checkbox"/> Heavy Lifting	People	
<input type="checkbox"/> Awkward posture	<input type="checkbox"/> Sustained posture	<input type="checkbox"/> Remote or isolated work	<input type="checkbox"/> Contractors
Facilities / built environment		<input type="checkbox"/> Fatigue	<input type="checkbox"/> Visitors / land owners / public
<input type="checkbox"/> Buildings and fixtures	<input type="checkbox"/> On/in or adjacent to roadways	<input type="checkbox"/> Competency or training required	<input type="checkbox"/> License required
<input type="checkbox"/> Open pits, trenches or tunnels	<input type="checkbox"/> Asbestos/ lead	Environment and water quality	
<input type="checkbox"/> Overhead objects or services	<input type="checkbox"/> Underground objects or services	<input type="checkbox"/> Erosion & sediment control	<input type="checkbox"/> Waste/ discharge
<input type="checkbox"/> Lighting	<input type="checkbox"/> Noise	<input type="checkbox"/> Emissions (or air pollution)	<input type="checkbox"/> Flora/ fauna/ weed management
<input type="checkbox"/> On or near pressurized gas distribution mains or piping	<input type="checkbox"/> On or near chemical. fuel or refrigerant lines	<input type="checkbox"/> Release to drains/waterways	<input type="checkbox"/> Water quality

HORIZONTAL

ANCHORAGE LINE SYSTEMS



Receiving Structure

You need to ensure that the strength of the receiving structure is greater than the forces generated in the system. If in doubt, please consult your engineer.

The engineered lifeline has been designed by trained engineers and installers of KStrong using state-of-the-art Compass software. The lifeline is equipped with advanced shock absorption system which reduces the impact and forces on the receiving structure.

The information on structure strength shall be provided by the client. In case the strength of the receiving structure is not known or If in doubt, it is important to get the load calculation done from a competent authority or a certified structural engineer. The Impact Posts are suitable for a variety of roof sheet profiles with a minimum thickness of 0.40mm for steel and 0.70mm for aluminum. KStrong does not take responsibility for malfunction due to inadequacy in the receiving structure.

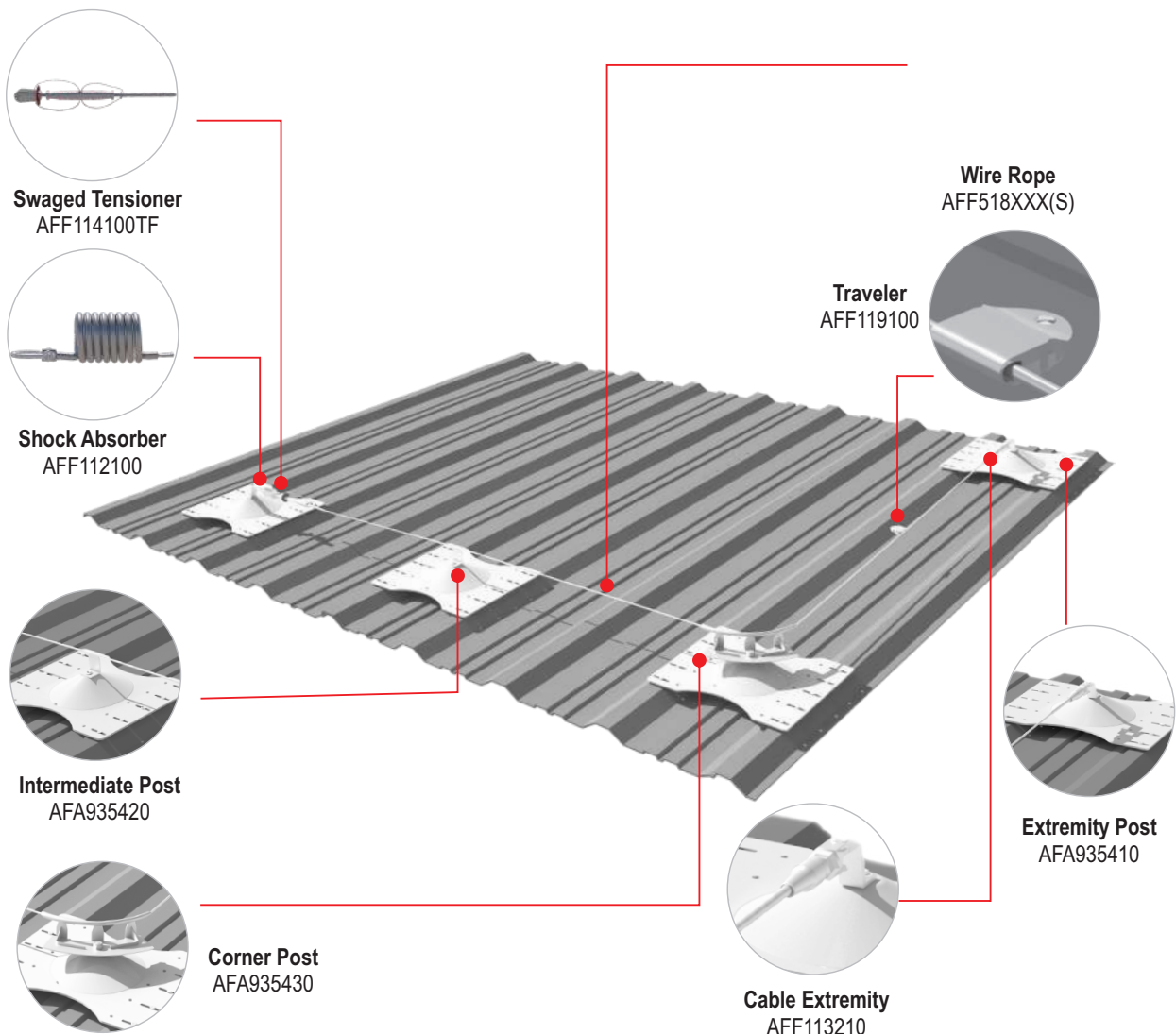
If the strength of the structure is less than 12kN, (such as aluminum roofing sheets, concrete, or brick walls), then the Compass software allows the engineer to compute an optimum bill of material (BOM), based on the structure's strength.

Please ensure that the entire system is compatible with the other personal fall protection equipment used, and is in conformance with those recommended for use by KStrong. No change may be done in the life line system without a prior confirmation by KStrong authorized personnel.

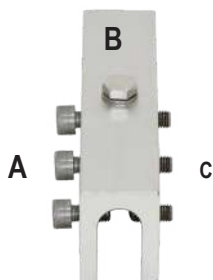
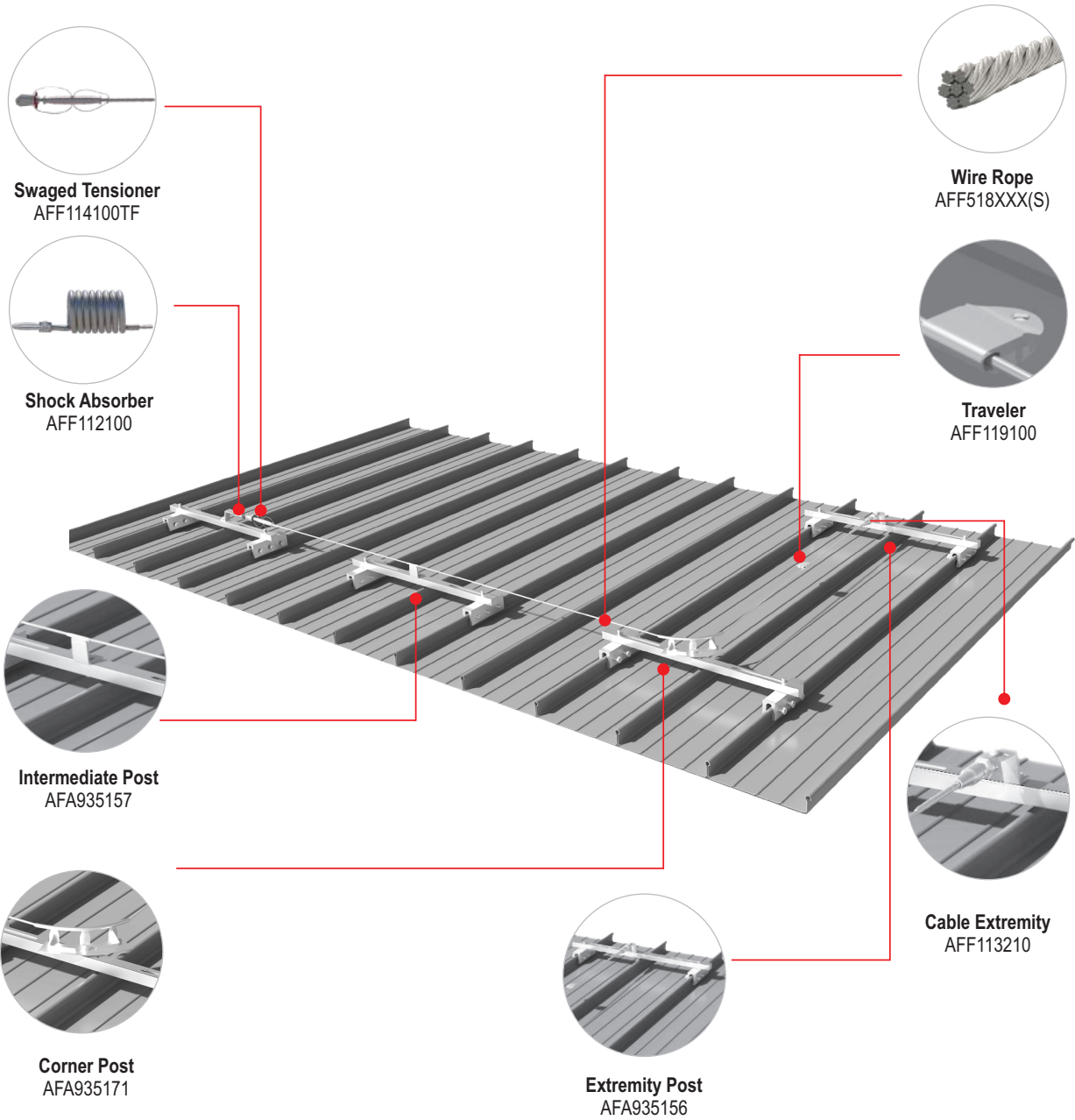
Third party installations by uncertified installers are not recommended for these products. In case of third-party installations, KStrong will not be held responsible for any failure of the product in its intended use.

IMPACT Fall Arrest System Components

Trapezoidal Roof Profiles



Standing Seam Roof Profiles

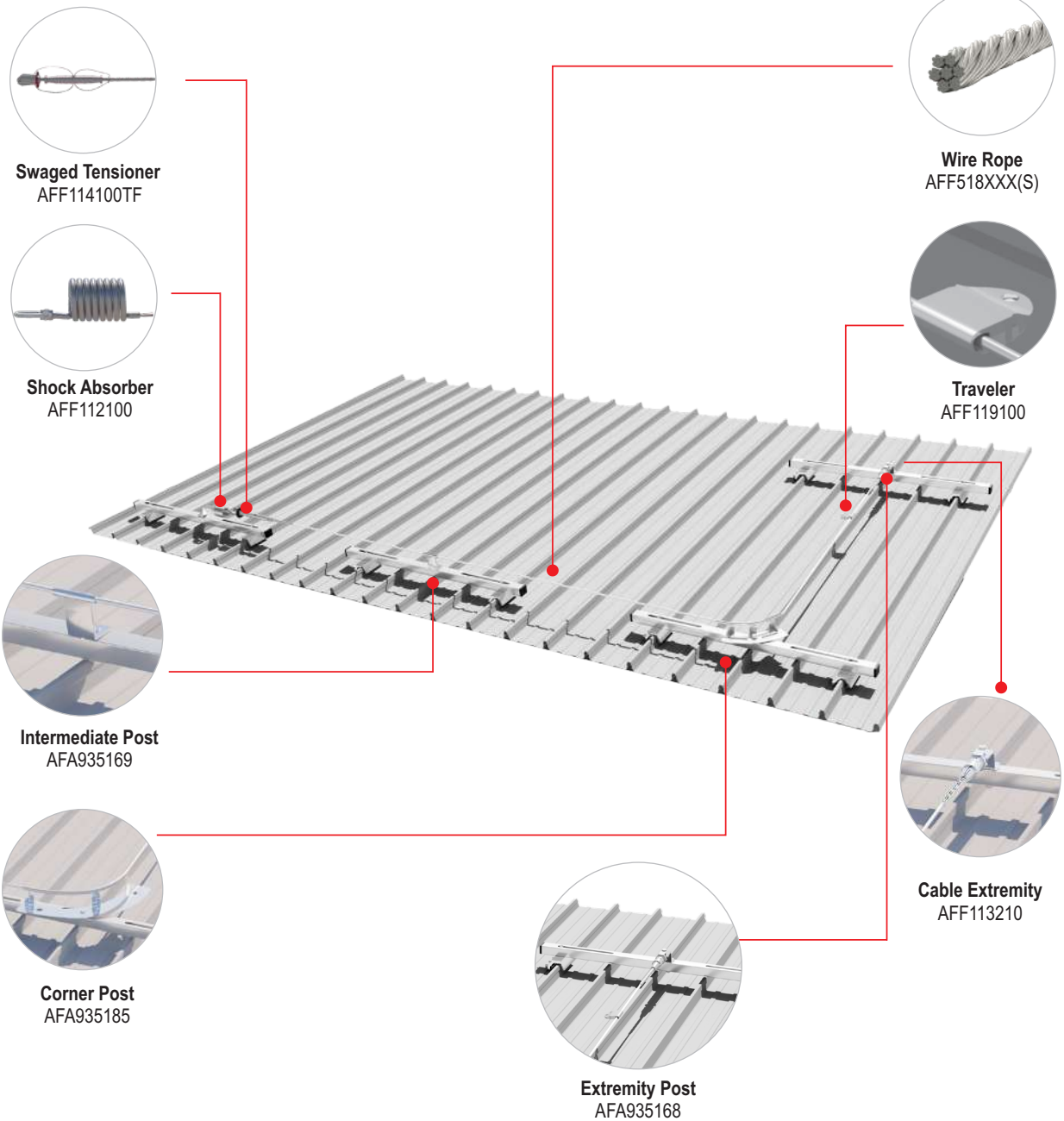


STANDING SEAM FASTENERS / CONNECTOR

Type	A) Hex Bolt	B) Hex Bolt	C) Grub Screw
Size(mm)	10X25	10X25	12X25
Qty	3	1	3
Torque	15 Nm	17 Nm	17 Nm

HORIZONTAL ANCHORAGE LINE SYSTEM

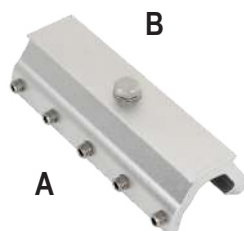
Kliplok Roof Profiles



KLIPOK CLAMPS

Product Code	Suitable Roof Profile
AFA935176	KLIPOK 770
AFA935174	KLIPOK 406
AFA935178	KLIPOK 700

KLIPOK



KLIPOK FASTENERS / CONNECTOR

Type	A) Grub Screw	B) Hex Bolt
Size(mm)	10X25	12X25
Qty	5	1
Torque	15 Nm	17 Nm

Component Chart

The chart below shows all the components of the Horizontal Lifeline Systems with their appropriate product codes and quantity required in a system. Depending on the receiving structure, the user may select appropriate posts. The quantity of the posts depends upon the length of life line, number of corners and the distance between two spans. The span distance may be between 5 to 15 meters.

TECHNICAL SNAPSHOT

Sr. No.	Component	Code	Qty. Required	
1	Shock Absorber	AFF112100	1 no.	
2	Tensioner	AFF114100TF	1 no.	
3	Wire Rope	AFF518XXX(S)	As per length	
4	Traveler	AFF119000	As per no. of users	
5	Cable Extremity	AFF113210	1 no.	
6	Inspection Plate	AFF115101	1 no.	
	Roof Posts	Trapezoidal	Standing Seam	KlipLok
7	Extremity Posts	AFA935410	AFA935156	AFA935168
8	Intermediate Posts	AFA935420	AFA935157	AFA935169
9	Corner Posts (60,90,120 Degrees)	AFA935430	AFA935171	AFA935185
10	Variable Corner Bend	AFA935430(CB)	AFA935171(CB)	AFA935185(CB)

Recommended PPE

While working on a roof, the user can select from a range of PPE to work safely with either lanyards, rope lines or SRL's in conjunction with a full body harness.



Energy Absorbing
Webbing Lanyard
AFL408131



Work Positioning
Lanyard with Grip
Adjuster
AFL405111



Rope Line with
Shock Absorber
AFA951201



2m Micron SRL
AFS550002



Full Body Roofers
Harness
AFH300203

Shock Absorber

The Shock Absorber reduces the impact of the fall on the user as well as on the structure. The shock absorber also has a tension indicator at one end to help the installer know how much tension is to be given to the line after the installation.

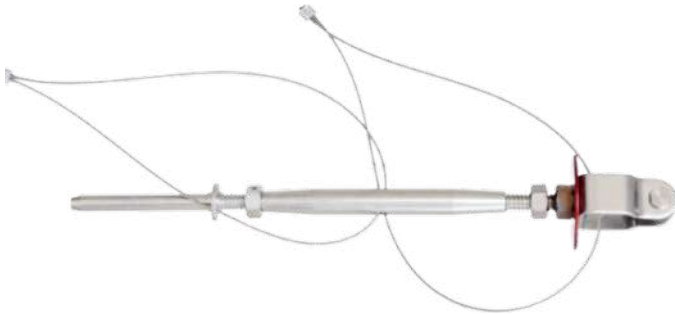


TECHNICAL SNAPSHOT

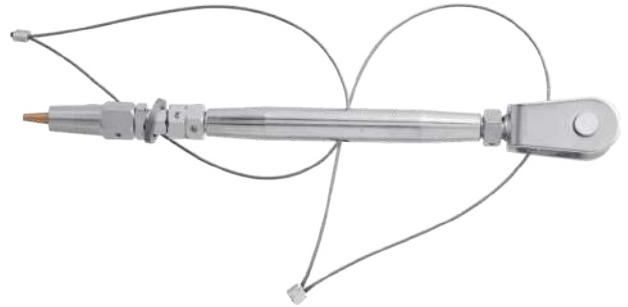
Shock Absorber	AFF112100
Design	Multiple User
Application	Spring type shock absorber. It reduces the impact force in the event of a fall or overloading on the system.
Minimum Activation Force	1kN
Length	258 mm
Material	Shock Absorber 304 Stainless Steel D-Shackle 316 Stainless Steel
MBS	25 kN
Weight	1.5 kgs
Operating Temperature	-40°C to +60°C
Inspection Frequency	Annual
Conforms to	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013

Tensioner

The Tensioner is attached to the shock absorber using stainless steel nut bolts and has a swageless termination at one end for the wire rope . Once the life line is installed, the tensioner is tightened by inserting a rod in the hole and rotating it.



Tensioner With Swaging



Swageless Tensioner

TECHNICAL SNAPSHOT

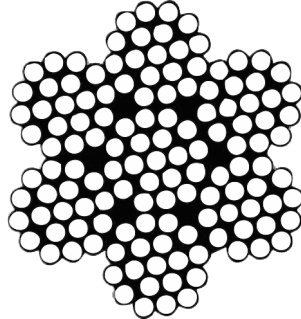
Tensioner	AFF114100TF	AFF114100(SL)
Design	It has one side swage and one side eye to fix in the shock absorber	It has one side swage less extremity and one side eye to fix in the shock absorber
Application	The tension device is an interconnection between the cable and shock absorber with cable length adjustment feature.	The tension device is an interconnection between the cable and shock absorber with cable length adjustment feature.
Size	Contracted length (Minimum) 450.9 mm Extended length (Maximum) 546.4 mm	Contracted length (Minimum) 417.5 mm Extended length (Maximum) 563.0 mm
Material	Stainless Steel Grade 316	Stainless Steel Grade 316
Weight	1.1 kg	1.0 kg
Operating Temperature	-40°C to +60°C	-40°C to +60°C
Inspection Frequency	Annual	Annual
Minimum Breaking Strength	25 kN	35 kN
Conforms to	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013

Wire Rope

Stainless Steel Cable



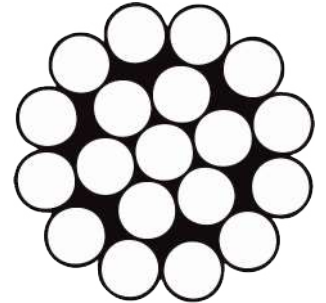
Wire



7 Strands of 19 wires



7 Strands of 07 wires



1 Strands of 19 wires



8mm Wire Cable

TECHNICAL SNAPSHOT

Wire Rope	AFF518XXX(S)	AFF5187X7XXXS	AFF518119XXXS
Design	7X19	7X7	1X19
Application	Stainless steel cable for horizontal and vertical life line system	Stainless steel cable for horizontal and vertical life line system	Stainless steel cable for horizontal and vertical life line system
Size	8 mm	8 mm	8 mm
Material	Stainless Steel Grade 316	Stainless Steel Grade 316	Stainless Steel Grade 316
MBS	39 kN	39 kN	44 kN
Weight	0.24 kg per meter	0.30 kg per meter	0.34 kg per meter
Operating Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Inspection Frequency	Annual	Annual	Annual
Conforms to	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013

Traveler

Simply connect a karabiner to the Traveler when using a lanyard, rope line or a fall arrestor with a full body harness allowing the user to freely travel along the length of the line.

The Traveler may be attached or detached from the line at any given point by two consecutive deliberate actions. In applications on roofs, the Traveler may be used on either side of the roof.



Traveler

TECHNICAL SNAPSHOT

Carriage Body	AFF119000
Design	Openable Traveler suitable to be used on 7x19, 7x7 and 1x19 - 8 mm stainless steel wire cable
Application	The stainless steel Traveler connects the user to the line with the help of lanyard / retractable block and moves smoothly without interruption along the entire length of the horizontal line
Material of Construction (MOC)	Stainless Steel Grade 316
Weight of Component (WOC)	0.7 kg
Operating Temperature	-40°C to +60°C
Recommended Inspection Frequency	Annual
Minimum Breaking Strength	25 kN
Conforms to	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013

Cable Termination

The Stainless Steel Cable Extremity attaches directly to the end of the 8mm wire rope allowing a simple and easy connection to the extremity anchor. Simple and easy to install on the desired length of the cable. The extremity provides neat end connection eliminating any loose wires.



Cable Extremity Swageless



Swaged

TECHNICAL SNAPSHOT

Cable Termination	AFF512001	AFF113210
Design	Swageless	Swaged
Application	Cable extremity provides strong swageless end connections to the wire rope and completely eliminate the danger of any loose wire which may cause injury to the user working on the line.	The swage provides a strong end connection. The swaging is done using a 130kN hydraulic swaging hand tool and hexlock dies at 6 positions.
Material of Construction (MOC)	Stainless Steel Grade 316	Stainless Steel Grade 316
Weight of Component (WOC)	0.4 kg	0.5 kg
Operating Temperature	-40°C to +60°C	-40°C to +60°C
Recommended Inspection Frequency	Annual	Annual
Minimum Breaking Strength	25 kN	25 kN
Conforms to	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013

Extremity Anchor Posts

The IMPACT Roof Top Extremity Anchor Posts are suitable for a range of metal roof profiles and PEB structures. The post is designed with an inbuilt shock absorption mechanism which activates in the event of a fall and reduces the forces on the user's body to bearable limits and leaves the roof panel intact to maintain architectural integrity.

The Trapezoidal Extremity Post is suitable for a variety of trapezoidal roof sheets with a minimum thickness of 0.40mm for steel and 0.70mm for aluminum sheet. The posts have multiple holes to suit different peak distances. Supplied with additional weather protection EPDM sheet and flash tapes that are installed at the bottom and on top of the base plate respectively. For greater strength and stability, the center screw of the post is installed directly into the purlin of the roof.

The Standing Seam and Kliplok Roof Top Anchor Posts have been designed to adjust along the top rail ensuring total coverage of seam distances. Simply installed on standing seam or kliplok roof profiles with aluminum clamps attached to the base of the posts.



Extremity Post for Trapezoidal Roof Sheets
AFA935410



Standing Seam Extremity Post
AFA935156



Broad Standing Seam Extremity Post
AFA935156BS



Kliplok Extremity Post
AFA935168

TECHNICAL SNAPSHOT

Extremity Anchor Posts	AFA935410	AFA935156	AFA935156BS	AFA935168
Seam Distance	195 mm to 305 mm	320 mm to 650 mm	320 mm to 750 mm	320 mm to 650 mm
Application	Trapezoidal Extremity Post suitable for roof sheets with a minimum thickness 0.40mm	Standing Seam Extremity Post	Standing Seam Extremity Post	Kliplok Extremity Post
Material	316 Stainless Steel ED Coated	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized
Weight	1.9 kgs	2.95 kg ± 0.05 kgs	3.214 kg + 0.050 kgs	2.47 kg ± 0.05 kgs
Operating Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Inspection Frequency	Annual	Annual	Annual	Annual
MBS	15 kN	15 kN	15 kN	15 kN
Conforms to	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013

Intermediate Posts

The IMPACT Roof Top Intermediate Posts are suitable for a range of metal roof profiles and PEB structures. The intermediate post is designed with an inbuilt shock absorption mechanism which activates in the event of a fall and reduces the forces on the user's body to bearable limits and leaves the roof panel intact to maintain architectural integrity.

The intermediate posts are used to divide a long line into multiple spans, reducing the sag on the line. The distance between two intermediate brackets may be between 5 to 15 meters, depending on the receiving structure.



**Intermediate Post
for Trapezoidal Roof
Sheets
AFA935420**



**Intermediate Post
for Standing Seam
AFA935157**



**Broad Intermediate
Post for Standing
Seam
AFA935157BS**



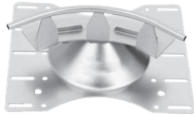
**Intermediate Post For
Kliplok
AFA935169**

TECHNICAL SNAPSHOT

Intermediate Anchor Posts	AFA935420	AFA935157	AFA935157BS	AFA935169
Seam Distance	195 mm to 305 mm	320 mm to 650 mm	320 mm to 750 mm	320 mm to 650 mm
Application	Trapezoidal Intermediate Post suitable for roof sheets with a minimum thickness 0.40mm	Standing Seam Intermediate Post	Standing Seam Intermediate Post	Kliplok Intermediate Post
Material	316 Stainless Steel ED Coated	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized
Weight	3.40 kg ± 0.05 kg	2.70 kg ± 0.05 kg	2.96 kg ± 0.05 kg	2.22 kg ± 0.05 kg
Operating Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Span Distance	5 to 15 meters	5 to 15 meters	5 to 15 meters	5 to 15 meters
Inspection Frequency	Annual	Annual	Annual	Annual
MBS	15 kN	15 kN	15 kN	15 kN
Conforms to	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013

Corner Posts

Suitable to be used in situations where the installation requires changing the direction of the horizontal line e.g: curves or corners of buildings etc. An appropriate corner post may be selected depending on the roof profile. The Corner Post is designed with an inbuilt shock absorption mechanism which activates in the event of a fall and reduces the forces on the user's body to bearable limits and leaves the roof panel intact to maintain architectural integrity



Corner Post for Trapezoidal Roof Sheets
AFA935430
(60), (90), (120) Degrees



Corner Post For Standing Seam Roof
AFA935171
(60), (90), (120) Degrees



Broad Corner Post For Standing Seam
AFA935171BS
(60), (90), (120) Degrees



Corner Bend Post For Kliplik
AFA935185
(60), (90), (120) Degrees

TECHNICAL SNAPSHOT

Corner Post	AFA935430(60) AFA935430(90) AFA935430(120)	AFA935171(60) AFA935171(90) AFA935171(120)	AFA935171BS(60) AFA935171BS(90) AFA935171BS(120)	AFA935185(60) AFA935185(90) AFA935185(120)
Design	Trapezoidal Corner Post	Standing Seam Corner	Standing Seam Corner	Kliplik Corner Post
Seam distance span	200 mm to 305 mm	320 mm to 650 mm	320 mm to 750 mm	320 mm to 650 mm
Available in	60,90 and 120 degrees	60,90 and 120 degrees	60,90 and 120 degrees	60,90 and 120 degrees
Application	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.
Material	316 Stainless Steel ED Coated	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized
Weight (60), (90), (120) degree	2.18 kg ± 0.02 kg	3.31 kg ± 0.50 kg 3.26 kg ± 0.50 kg 3.33 kg ± 0.50 kg	3.58 kg ± 0.50 kg 3.53 kg ± 0.50 kg 3.60 kg ± 0.50 kg	2.76 kg ± 0.50 kg 2.78kg ± 0.50 kg 3.04 kg ± 0.50 kg
Operating Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Inspection Frequency	Annual	Annual	Annual	Annual
MBS	15 kN	15 kN	15 kN	15 kN
Conforms to	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 and AS/NZS 5532:2013

Variable Corner Bend Posts

The Variable Corner Bend Tube is attached to the intermediate which provides an inclination in lifeline by manually adjusting the angle between 0° to 45° degrees. The Intermediate Variable Corner Bend Post is designed with an inbuilt shock absorption mechanism which activates in the event of a fall and reduces the forces on the user's body to bearable limits and leaves the roof panel intact to maintain architectural integrity.

The intermediate is designed to create inclination in lifeline by manually adjusting the angle between 0° to 45°.

Minimum allowable radius on intermediate pipe is 188.0 mm which will start from minimum distance of 50 mm from centre.



Variable Corner Bend Post for Trapezoidal Roof
AFA935430(CB)



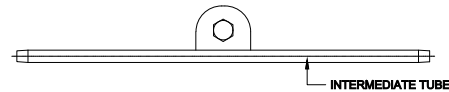
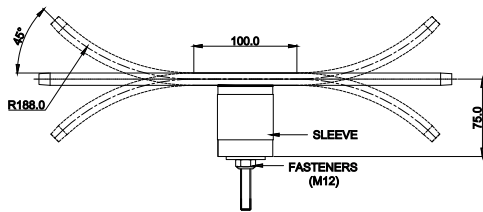
Corner Bend Post For Standing Seam Roof
AFA935171(CB)



Corner Bend Post for Standing Seam Roof
AFA935171BS(CB)



Corner Bend Post For Kliplok Roof
AFA935185(CB)



TECHNICAL SNAPSHOT

Variable Corner Bend Posts	AFA935430(CB)	AFA935171(CB)	AFA935171BS(CB)	AFA935185(CB)
Design	Trapezoidal Corner Bend Post	Standing Seam Corner Bend Post	Standing Seam Corner Bend Post	Kliplok Corner Bend Post
Seam distance span	200 mm to 305 mm	320 mm to 650 mm	320 mm to 750 mm	320 mm to 650 mm
Application	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.	The Corner Piece Is Provided To Install The Anchorage Line On Curved \ Bend Area.
Material	316 Stainless Steel ED Coated	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized	6061 T6 Aluminum: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminum, Anodized
Weight	1.79 kgs	2.81 kgs	2.81 kgs	2.58 kgs
Operating Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Span Distance	5 to 15 meters	5 to 15 meters	5 to 15 meters	5 to 15 meters
Inspection Frequency	Annual	Annual	Annual	Annual
MBS	15 kN	15 kN	15 kN	15 kN
Conforms to	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013	EN 795:2012 Type C and TS16415 & AS/NZS 5532:2013



**Anchor Post to mount SRL'S for Standing Seam Roof
AFA935407**

FEATURES

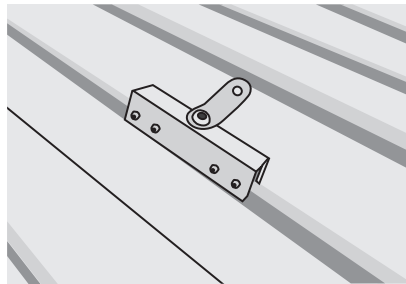
Anchor Post designed to be fixed on standing seam roofs having pitch between 600mm - 900mm.
Compatible with all KStrong range of retractable fall arrester Blocks, allowing 360° rotation.
Easy to install & reusable.
Can be installed on upto 23.0mm bulb size of standing seam roof.



**Anchor Post to mount SRL'S for Trapezoidal Roof
AFA935408**

FEATURES

Anchor Post designed to be fixed on metal pitched or wooden roofs with the help of supplied rivets. The base plate has series of holes to fit on Trapezoidal Roofs (minimum thickness of 0.40mm) of different pitch/rib from 217.0mm to 465.0mm.
Compatible with all KStrong range of retractable fall arrester Blocks, allowing 360° rotation.
Easy to install & reusable.
High strength Alloy steel.



**Aluminium Anchor for Standing Seam Roof
AFA935370**

FEATURES

Roof top anchor device is designed to be fixed on metal standing seam.
Trolley lateral hinge (Swivel anchorage eye) on the top provides universal connection and used as an anchorage point.
The anchor is fixed on to the roof top by use of socket set.



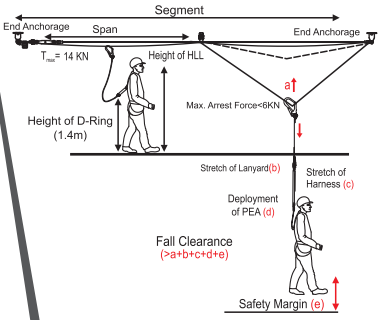


TECHNICAL SNAPSHOT


Ref. No	Material	Finish	Weight	Breaking Strength	Conforms to
AFA935407	Alloy Steel	ED coated black	15.97kgs ± 0.200kgs	23kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935408	Alloy Steel	ED coated black	14.28kgs ± 0.10kgs	23kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935370	High Strength Aluminum Alloy	Anodized	834gms ± 10gms	12kN	EN795:2012 Type A, Certified to: AS/NZS 5532:2013

HORIZONTAL ANCHORAGE LINE SYSTEM


Inspection Plate: AFF115101H

The Inspection Plate is installed on the tensioner side of the system for identification, traceability and maintenance of inspection records. At time of installation, the relevant details are recorded on the ID tag. The next inspection dates are also recorded on the month and year on the back of the ID plate. The label is provided with a protective aluminum frame with a poly carbonate sheet for UV protection. It is installed on the pin ring of the tensioner. The label is equipped with a dynamic QR code and an RFID tag that are linked to the Compass inspection software.

 		
KStrong Horizontal Lifelines		
AFF4000	Roof Mount - EN 795:2012 TYPE C and CEN/TS 16415:2013	 
AFF4000	Wall, Floor and Ceiling Mount - EN795:2012 TYPE D	
Date of Installation		
No. of users		
UID		
Line No.		
customercare@kstrong.com		www.kstrong.com/asia


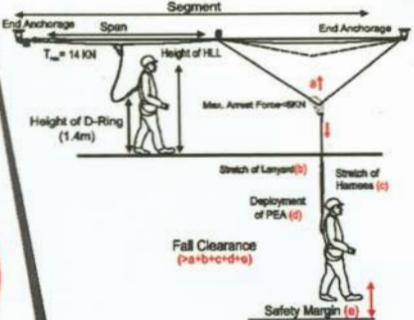




Engineering Calculation
Predict forces
extremity / deflection in cable



next
inspection

 	
KStrong Horizontal Lifelines	
AFF4000	Roof Mount - EN 795:2012 TYPE C and CEN/TS 16415:2013
AFF4000	Wall, Floor and Ceiling Mount - EN795:2012 TYPE D
Date of Installation	
No. of users	
UID	K4000332
Line No.	
customercare@kstrong.com	
www.kstrong.com/asia	

 <p>Engineering Calculation Predict forces extremity / deflection in cable</p>	
 <p>next inspection</p>	
	

Horizontal Anchorage Lifeline System on Rigid Cable Line

AFF4000 (Floor/Ceiling Mounted)

EN 795:2012 Type C
TS 16415:2013

The AFF4000 (OH) Cable Line Fall Arrest System is designed for commercial buildings and industrial structures of all types. Our engineered systems cover all your working at heights requirements for maintenance, cleaning, access, wash bays and inspections.

KStrong has developed two types of Horizontal Life Line systems to suit different needs, our standard AFF4000 and AFF4000LS 18kn Horizontal Life Line system designed for Single spans up to 35m.

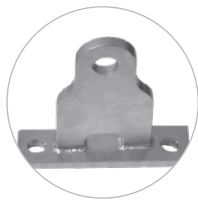
The Fixed Cable Line Fall Arrest system is an integrated solution to arrest the fall of a user who constantly works on any building/ structure that has an element of a potential fall and where your only fall arrest connection point is above your head or on the side of a building or structure.

This system allows you to walk along a fall edge for a continued distance while staying connected in fall arrest. Safety, simplicity, and durability are some key words to explain the advantages of this system.

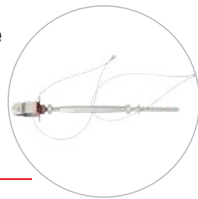
This system is made of stainless steel components, wire cable and is maintained in the rigid position by the use of two mounting brackets-one at the start and one at the end.

The AFF4000 (OH) Fall arrest system has been rigorously tested and manufactured in accordance with EN795:2012 Type C & TS 16415:2013 Standards, ensuring you have quality and guarantee of any system installed onto your asset.

AFF4000 (Floor Mounted)



Universal Extremity Plate
AFF113710



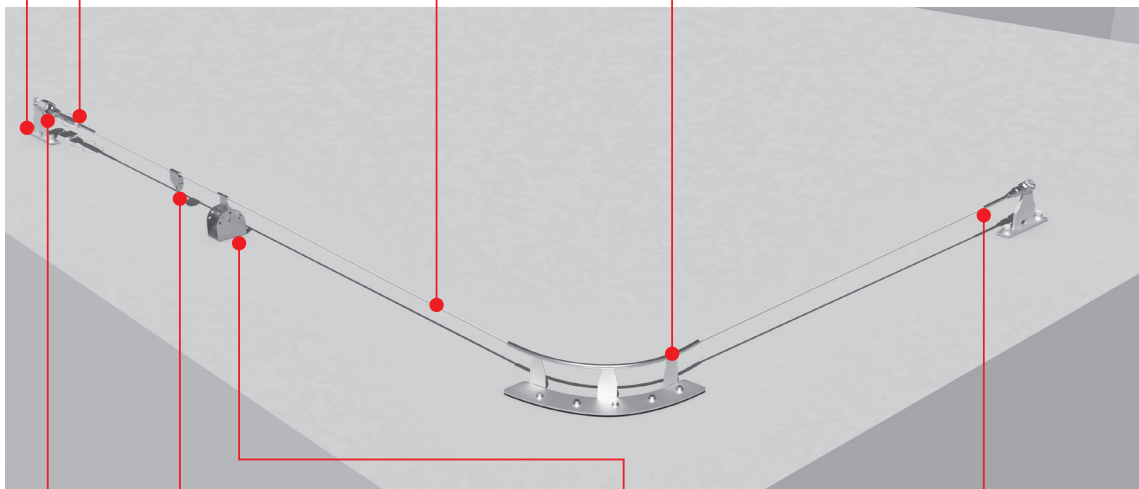
Swaged Tensioner
AFF114100TF



Wire Rope (Cable Wire)
AFF518XXX(S)



Corner Bracket
AFA935204



Shock Absorber
AFF112100



Carriage Body
AFF119000



Intermediate
AFF111510



Swaged Cable Extremity
AFF113210

AFF4000 (Wall Mounted)



Universal Extremity Plate
AFF113710



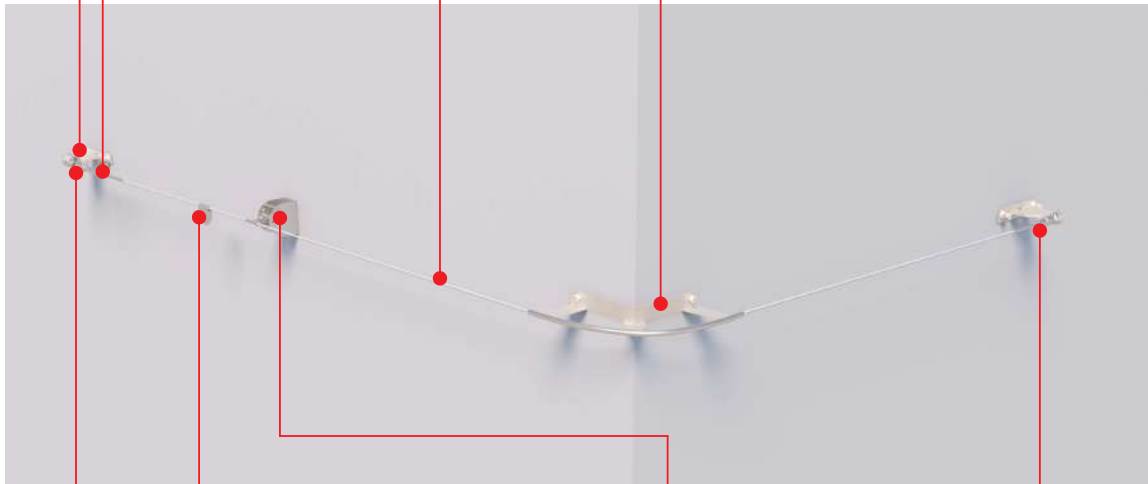
Swaged Tensioner
AFF114100TF



Wire Rope (Cable Wire)
AFF518XXX(S)



Corner Bracket
AFA935206(60°)



Shock Absorber
AFF112100



Traveler
AFF119000

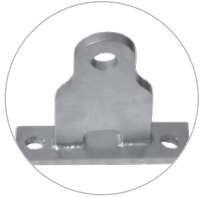


Intermediate
AFF111510



Swaged Cable Extremity
AFF113210

AFF4000 (Ceiling Mounted)



Universal Extremity Plate
AFF113710



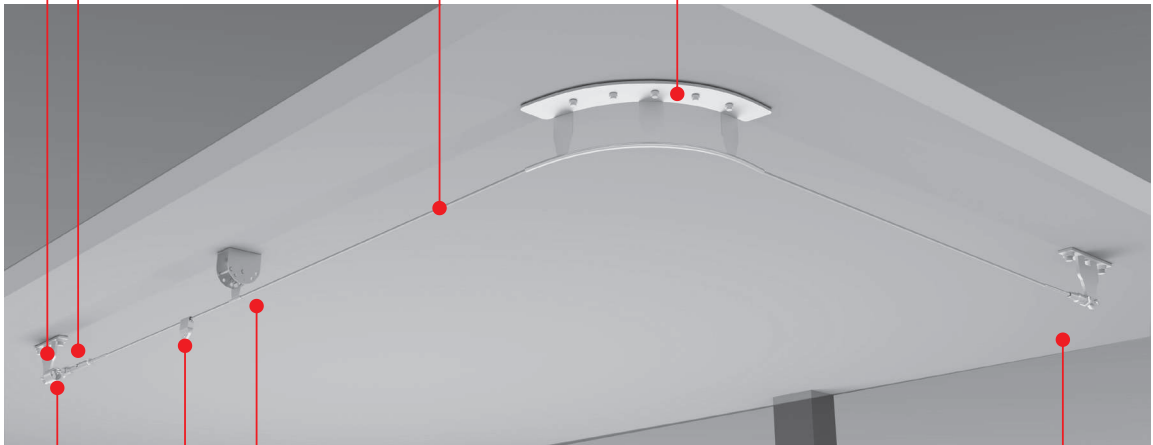
Swaged Tensioner
AFF114100TF



Wire Rope (Cable Wire)
AFF518XXX(S)



Corner Bracket
AFA935204



Shock Absorber
AFF112100



Traveler
AFF119000



Intermediate
AFF111510



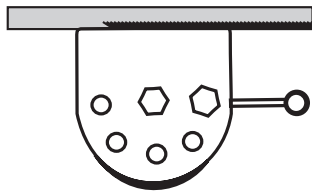
Swaged Cable Extremity
AFF113210

*Optional Traveler for Straight line Ceiling Mounted **

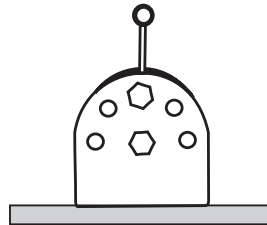


**Double Tandem Pulley Small with SS Sheaves
AFX206009**

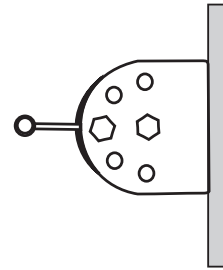
Intermediate Brackets Orientation for different Installation



Ceiling Mounting



Floor Mounting



Wall Mounting

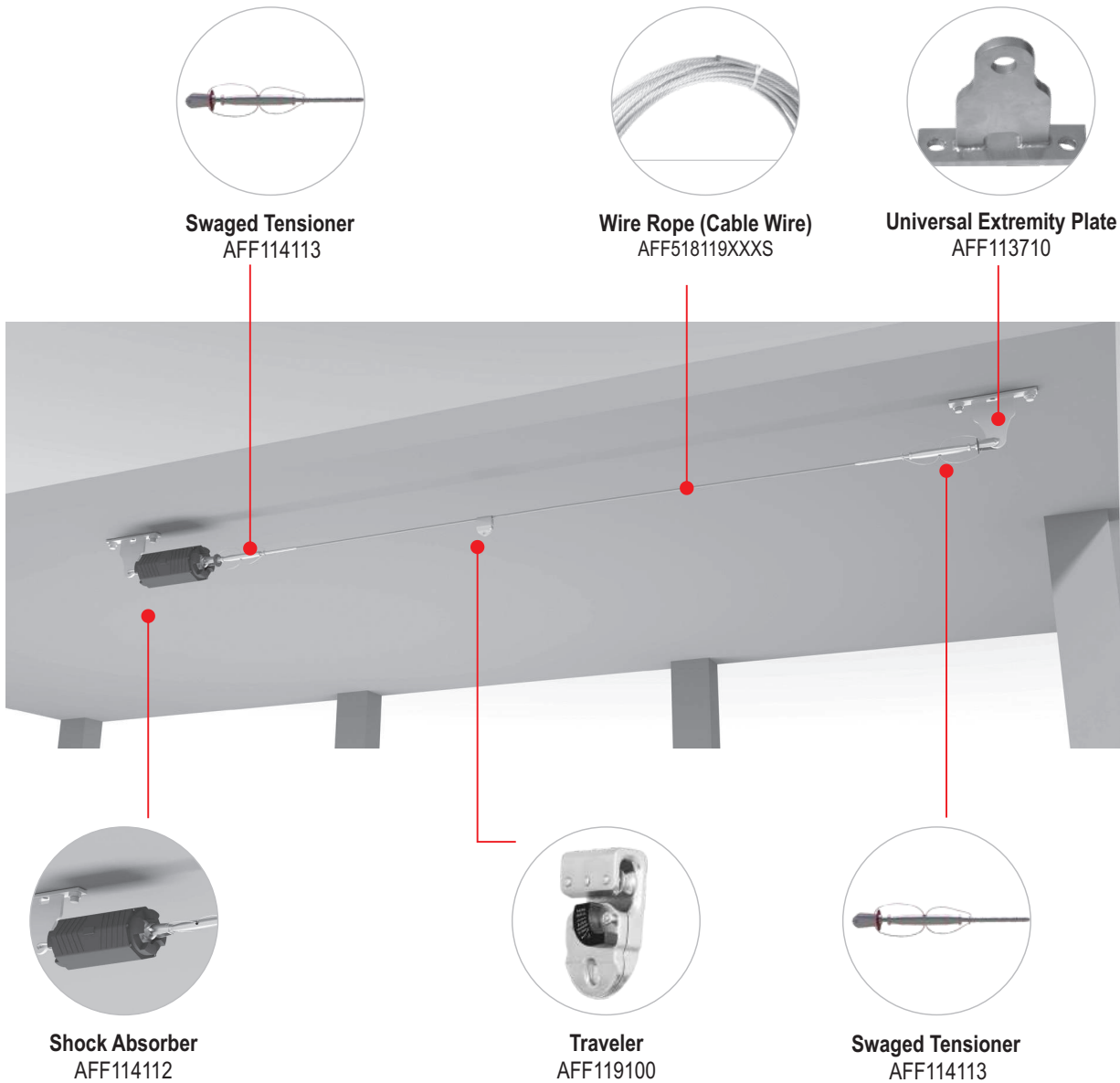
AFF4000

TECHNICAL SNAPSHOT

Product Name	Product Code	Features
Shock Absorber	AFF112100	Material: Stainless Steel 304
Swaged Tensioner	AFF114100TF	Regulates tensioning of the cable Material: Stainless Steel 316 Feature: Swage termination
Wire Rope (Cable Wire)	AFF518XXX(S)	Material: Stainless Steel 316 Diameter: 8 mm Construction: 7x19
Traveler	AFF119000 Floor Mount AFF119100 Ceiling & Wall Mount	Material: Stainless Steel 316 Feature: Friction Free movement
Intermediate	AFF111510	Material: Stainless Steel 316 Recommended Installation Every 8-12 mtrs
Swaged Cable Extremity	AFF113210	Allows crimping of the cable wire at the desired length, and eliminates danger of any loose wire Material: Stainless Steel 316 Feature: Swaged termination
Universal Extremity Plate	AFF113710	Material: Stainless Steel 316
Inspection Plate	AFF115100H	For identification traceability and maintenance of implementation records.

HORIZONTAL ENGINEERED SYSTEM

AFF4000LS 18kN Horizontal Life Line system designed for Single spans up to 35m.



AFF4000LS 18kN LONG SPAN

TECHNICAL SNAPSHOT

Product Name	Product Code	Features
Shock Absorber 18kN	AFF114112	Material: Stainless Steel 316 & Aluminum
Long Span Swaged Tensioners	AFF114113	Regulates tensioning of the cable Material: Stainless Steel 316 Feature: Swage termination
Wire Rope (8mm 1x19 Cable Wire)	AFF518119XXXS	Material: Stainless Steel 316 Diameter: 8 mm Construction: 1x19
Traveler	AFF119100	Material: Stainless Steel 316 Feature: Friction Free movement
Universal Extremity Plate	AFF113710	Material: Stainless Steel 316
Inspection Plate	AFF115100H	For identification traceability and maintenance of implementation records.

Corner Post for Floor/Ceiling

- Corner piece Bend for a floor/ ceiling mounted Lifeline.
- The Corner piece is designed to Install the Anchorage Line on Curved \ Bend Area.
- Available in: 60°, 90° and 120° Curve Angle.



AFA935204(60°)

Kgs 1.03kgs



AFA935204(90°)

Kgs 0.98kgs



AFA935204(120°)

Kgs 1.05kgs

Corner Post for Internal Bend for Wall Mounted Lifeline

- Corner piece Internal Bend for a wall mounted Lifeline.
- Available in : 60°, 90° and 120° Curve Angle.



AFA935205(60°)

Kgs 1.26kgs



AFA935205(90°)

Kgs 1.06kgs



AFA935205(120°)

Kgs 1.11kgs

Corner Post for External Bend for Wall Mounted Lifeline

- Corner piece External Bend for a wall mounted Lifeline.
- The Corner piece is designed to Install the Anchorage Line on Curved \ Bend Area.
- Available in : 60°, 90° and 120° Curve Angle.



AFA935206(60°)

Kgs 0.76kgs



AFA935206(90°)

Kgs 0.78kgs



AFA935206(120°)

Kgs 0.79kgs

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Breaking Strength	Conforms to
AFA935204	SS Grade 316	Electro Polished	15kN	EN795:2012 Type C, TS16415:2013
AFA935205	SS Grade 316	Electro Polished	12kN	EN795:2012 Type C, TS16415:2013
AFA935206	SS Grade 316	Electro Polished	15kN	EN795:2012 Type C, TS16415:2013

Horizontal Anchorage Lifeline System on Aluminium Line

AFF5000

EN 795:2012 Type D

This Anchorage Rail system complies with EN 795:2012 Type D is designed to provide safe anchorage for horizontal movement while working at height. The User wears a Full body Harness and uses a Lanyard (or other Connector compliant with EN 354/EN 355) to connect to the eye of the Trolley, which glides along the Aluminum horizontal Rail.

For overhead applications a Self-Retractable Fall Arrester can be used to provide the most effective means of fall protection.

It can be used for suspended work such as Window Cleaning whilst in a suspended position.

The AFF5000 can be fitted on to floors, wall and on ceilings using special mounting brackets.

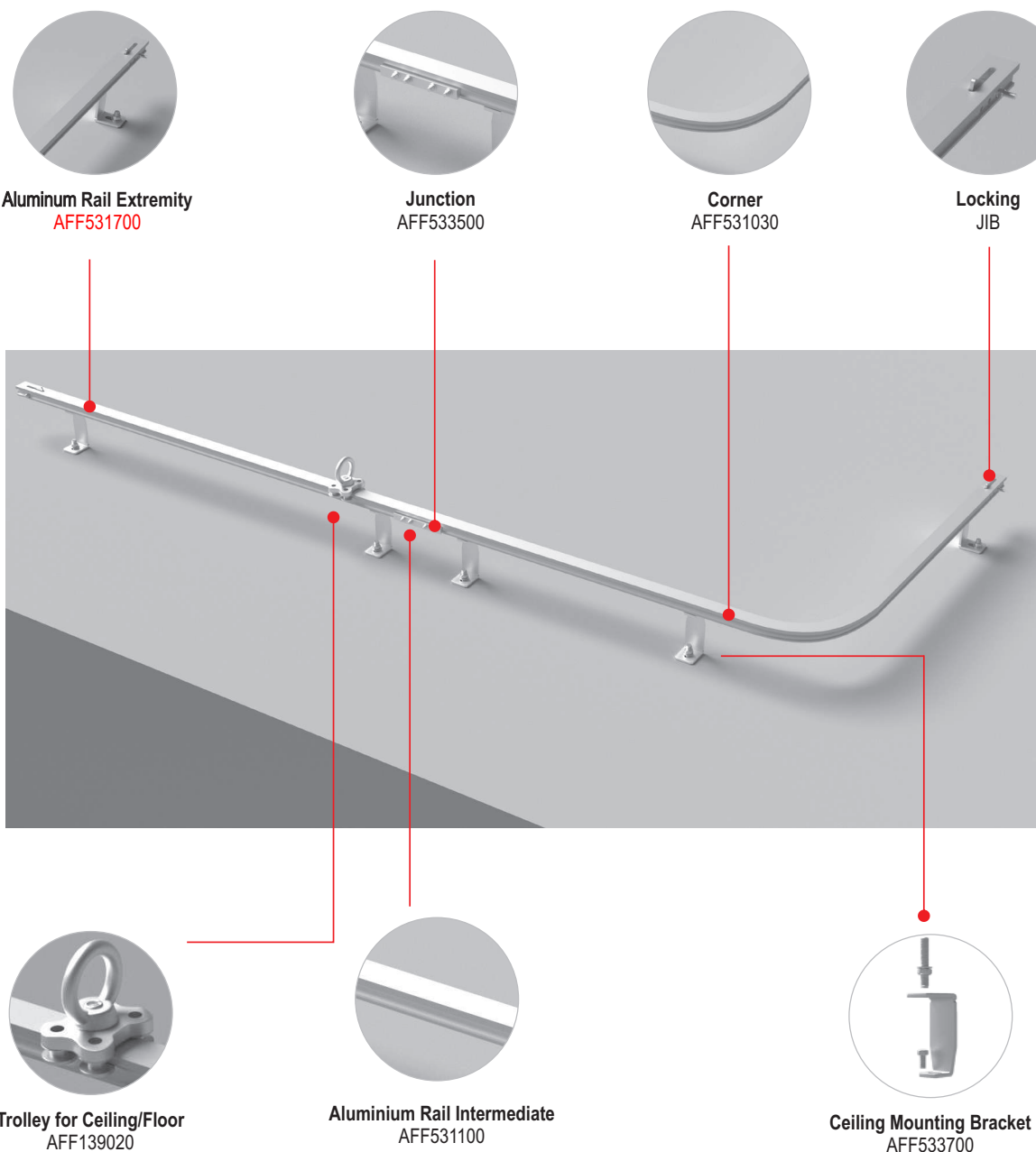
The Wall-mounting brackets can be flushed along the surface of the wall. Alternately, special mounting brackets which allow a recess between the rail and the wall may be used so as not to interrupt underlying structures like pipes and wires.

The rail is available in straight as well as curved forms (for corners and bends).

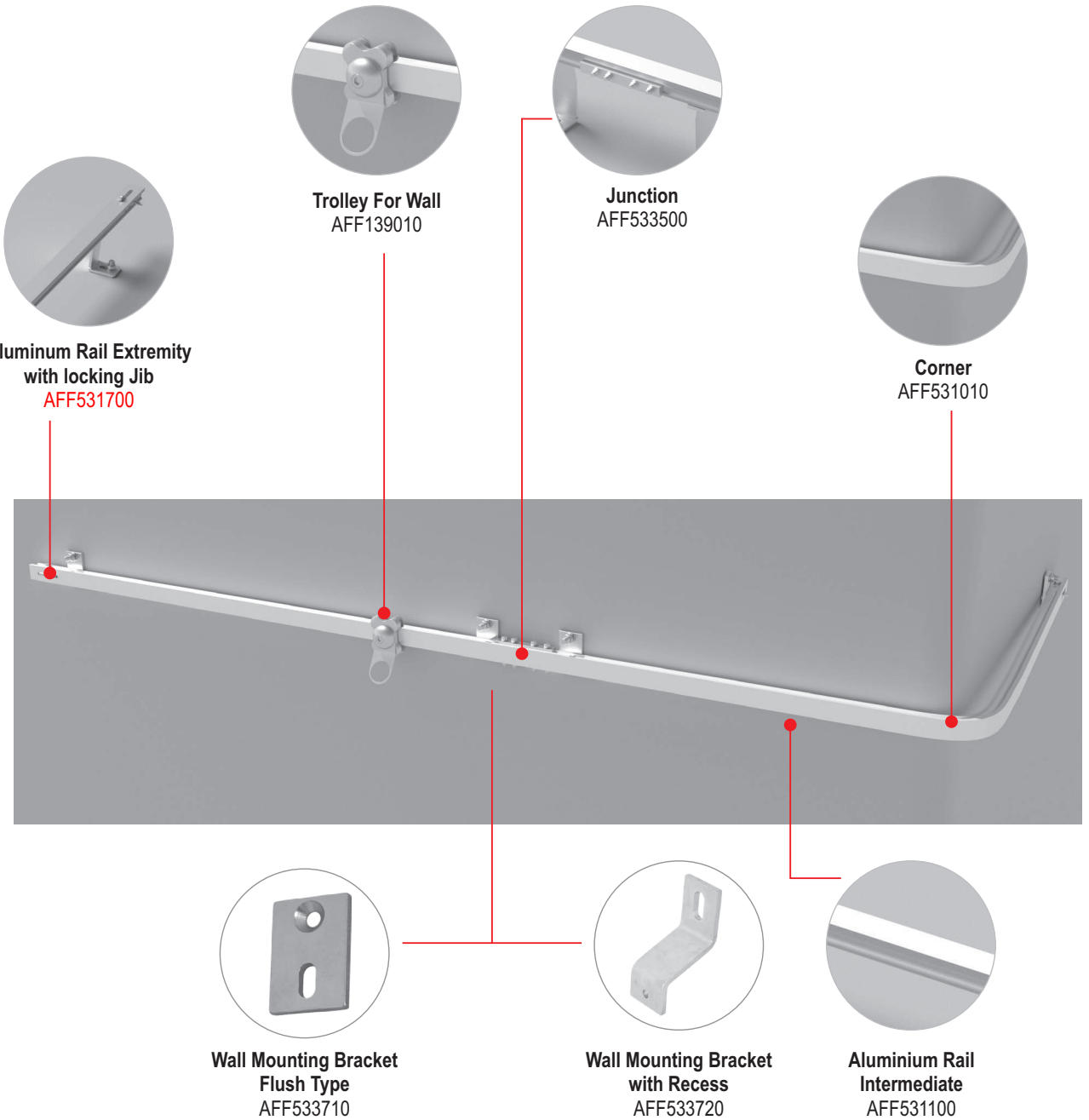
The specially fixed junctions between different lengths of the rail allow an extremely smooth movement of the Trolley.

The system also has an Inspection Name Plate for identification, traceability, and maintenance of inspection records. Conforms to EN 795:2012 Type D

AFF5000 (Floor Mounted)



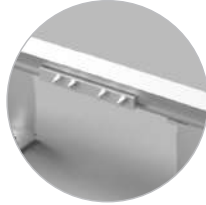
AFF5000 (Wall Mounted)



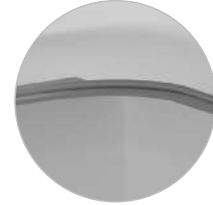
AFF5000 (Ceiling Mounted)



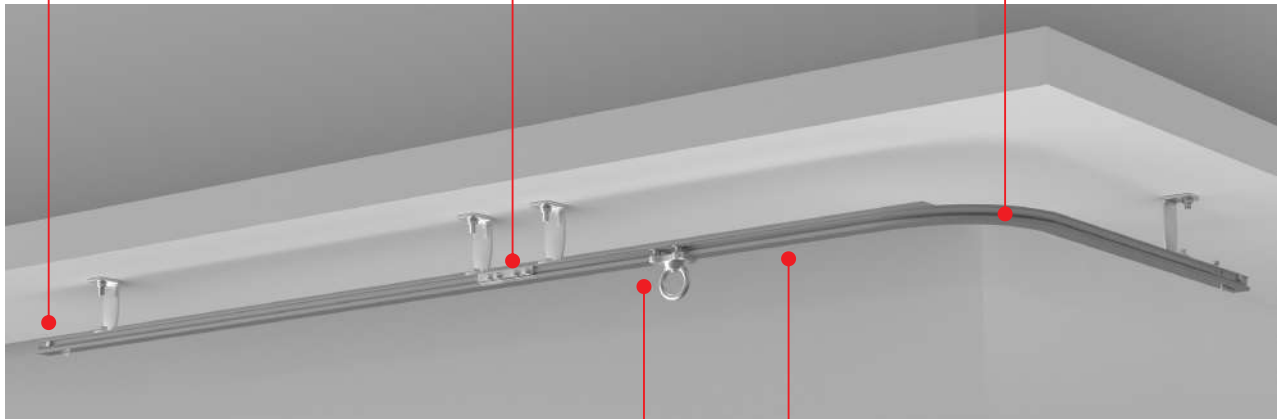
Aluminum Rail Extremity
with locking Jib
AFF531700



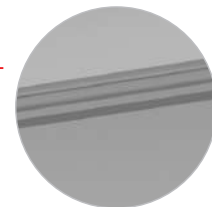
Junction
AFF533500



Corner
AFF531010



Trolley for Ceiling/Floor
AFF139020



Aluminium Rail
Intermediate
AFF531100

Installations Using Different Types of Mounting Brackets



Wall Mounted Installation
(with Recess)



Wall Mounted Installation
(Flush Type)



Floor Mounted Installation



Ceiling Mounted Installation

Curved Aluminium Rail



(Outer Wall Mounted)
AFF531010
Material: Extruded
Aluminium T6 Alloy



(Inner Wall Mounted)
AFF531020
Material: Extruded
Aluminium T6 Alloy



(Ceiling/ Floors)
AFF531030
Material: Extruded
Aluminium T6 Alloy

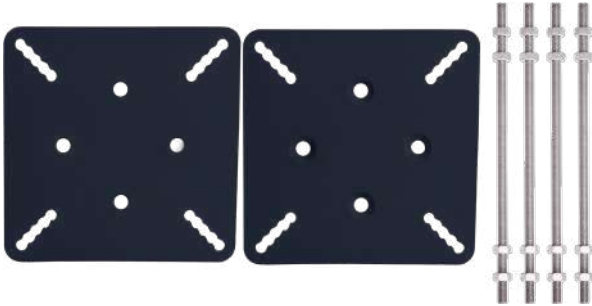
TECHNICAL SNAPSHOT

Product Name	Product Code	Features
Aluminium Rail Extremity	AFF531700	Material: Extruded Aluminium T6 Alloy Length: 3 meter
Wall Mounting Bracket with Recess	AFF533720	Material: Stainless Steel 316 (for Wall Mounting with Recess)
Alu. Rail Intermediate	AFF531100	Material: Extruded Aluminium T6 Length: 3 Meter.
Wall Mounting Bracket Flush Type	AFF533710	Material: Stainless Steel 316 (for Flush type wall Mounting)
Ceiling Mounting Bracket	AFF533700	Material: Stainless Steel 316 (For Ceiling mounting)
Mounting Nut	AFF533790	Material: Stainless Steel 316 to connect the rail to the mounting Bracket AFF533710 or AFF533720
Junction	AFF533000	Used to Connect Two rails together. Material: Clamp-Aluminium Alloy Fasteners-SS316
Trolley for Wall	AFF139010	Material: Stainless Steel 316 Trolley with Brass wheels which provide frictionless movement.
Trolley For Ceiling/Floor	AFF139020	Material: Stainless Steel 316 Trolley with Brass wheels which provide frictionless movement.

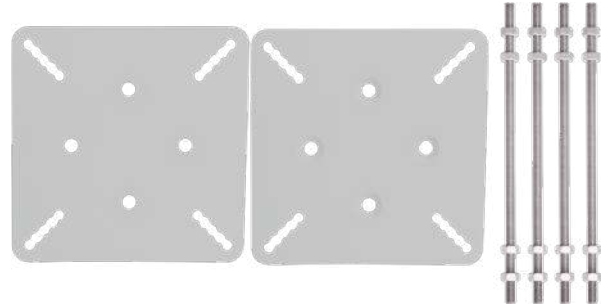
Fixed Posts

For Extremity (comes in multiple flange widths)

- Compatible with Minimum Flange width: 150.0 mm
- Compatible with Maximum Flange width: 220.0 mm



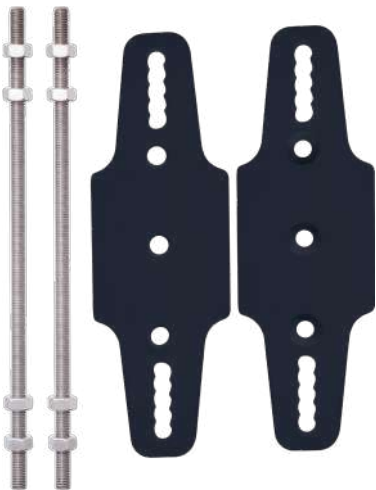
AFA935801



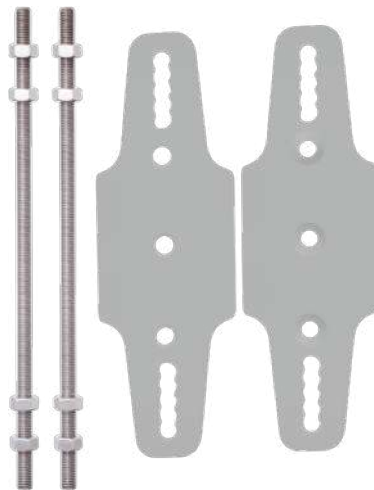
AFA935801(SS)

For Intermediate (comes in multiple flange widths)

- Compatible with Minimum Flange width: 150.0 mm
- Compatible with Maximum Flange width: 220.0 mm



AFA935851



AFA935851(SS)



TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	Breaking Strength	Conforms to
AFA935801	Alloy Steel	ED Coated Black	12.45kgs	23kN	EN795:2012 Type A, TS16415:2013
AFA935801(SS)	SS Grade 316	ED Coated Grey	10.18kgs	23kN	EN795:2012 Type A, TS16415:2013
AFA935851	Alloy Steel	ED Coated Black	3.87kgs	23kN	NA
AFA935851(SS)	SS Grade 316	ED Coated Grey	3.19kgs	23kN	NA

FIXED ANCHOR POSTS

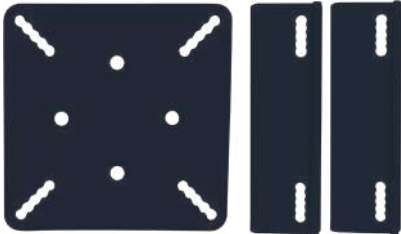
Fitted on the flange of an I-Beam (comes in multiple flange widths)

Anchor designed to be fixed on metal I Beam to install Horizontal Lifeline. The base has an adjustable opening to fit on the top flange of various sizes of I-Section.

Compatible with minimum flange width : 150.0mm

Compatible with maximum flange width : 220.0mm

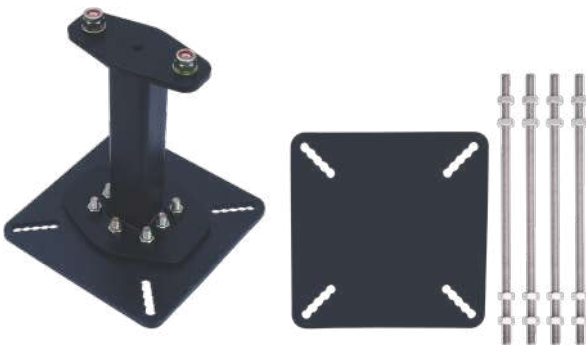
Compatible with universal extremity plate AFF113710, point anchor and intermediate AFF111510.



AFA935811



AFA935811(SS)



AFA935821



AFA935821(SS)

FEATURES

Anchor designed to be fixed to install a Horizontal Lifeline. The base has slots to fit on variable size of structure. Compatible with Universal Extremity Plate. Ref: AFF113710 Extremity & AFF111510 Intermediate

FEATURES

Available Lengths: 300mm, 500mm and 750mm
Compatible with minimum flange width: 150mm
Compatible with maximum flange width: 220mm

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	Breaking Strength	Conforms to
AFA935811	Alloy Steel	ED Coated Black	10.52kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935811(SS)	SS Grade 316	ED Coated Grey	8.60kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935821(300)	Alloy Steel	ED Coated Black	18.30kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935821(500)	Alloy Steel	ED Coated Black	20.07kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935821(750)	Alloy Steel	ED Coated Black	22.15kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935821(SS)(300)	SS Grade 316	ED Coated Grey (Base Plate)	8.64kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935821(SS)(500)	SS Grade 316	ED Coated Grey (Base Plate)	9.46kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935821(SS)(750)	SS Grade 316	ED Coated Grey (Base Plate)	10.64kgs	15kN	EN795:2012 Type A, TS16415:2013

FIXED ANCHOR POSTS



**Steel Anchor
AFA935831**

FEATURES

Anchor designed to be fixed on metal I Beam to install Horizontal Lifeline.
The base has an adjustable opening to fit on the top flange of various sizes of I-Section.
Compatible with minimum flange width : 150.0mm
Compatible with maximum flange width : 220.0mm
Compatible with universal extremity plate AFF113710, point anchor and intermediate AFF111510.
Available Lengths : 300mm, 500mm and 750mm



**Steel Anchor
AFA935831(SS)**

FEATURES

Anchor designed to be fixed on metal I Beam to install Horizontal Lifeline.
The base has an adjustable opening on the top flange of various sizes.
Compatible with minimum flange width : 150.0mm
Compatible with maximum flange width : 220.0mm
Compatible with universal extremity plate AFF113710 point anchor and intermediate AFF111510.
Available lengths: 300mm, 500mm and 750mm



**Anchor
AFA935841**

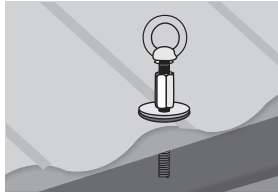
FEATURES

Anchors designed to be fixed on concrete structures using chemical fasteners to install Horizontal Lifelines
Compatible with universal and extremity plate AFF113710 and Intermediate AFF111510
Available lengths : 300mm and 500mm

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	Breaking Strength	Conforms to
AFA935831(300)	Alloy Steel	ED Coated Black	16.58kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935831(500)	Alloy Steel	ED Coated Black	18.92kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935831(750)	Alloy Steel	ED Coated Black	21.85kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935831(SS)(300)	SS Grade 316	ED Coated Grey (Base Plate)	12.15kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935831(SS)(500)	SS Grade 316	ED Coated Grey (Base Plate)	12.97kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935831(SS)(750)	SS Grade 316	ED Coated Grey (Base Plate)	15.15kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935841(300)	Alloy Steel	ED Coated Black	10.38kgs	15kN	EN795:2012 Type A, TS16415:2013
AFA935841(500)	Alloy Steel	ED Coated Black	12.80kgs	15kN	EN795:2012 Type A, TS16415:2013

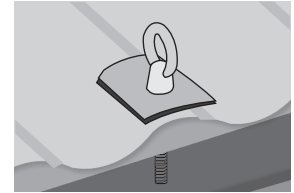
Purlin Post / Anchors



Roof Bolt Anchor
AFA935501

FEATURES

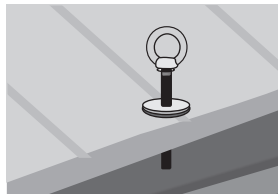
Bolt anchor design to be fixed on purlins of various roof profile to create permanent anchor.
Rubber washer for proper installation and making roof leak-proof.
Ideal for use as an anchorage point for fall protection
Recommended Drill Hole in Purlin is 30mm



Bolt Anchor Small for Corrugated Roof Profile
AFA935502

FEATURES

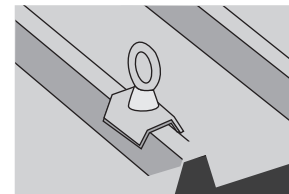
Bolt anchor design to be fixed on purlins of corrugated roof profile to create permanent anchor.
Rubber washer for proper installation and making roof leak-proof.
Ideal for use as an anchorage point for fall protection
Recommended Drill Hole in Purlin is 30mm



Bolt Anchor Small for Flat Pan Roof Profile
AFA935503

FEATURES

Bolt anchor design to be fixed on purlins of flat pan roof profile to create permanent anchor.
Rubber washer for proper installation and making roof leak-proof.
Ideal for use as an anchorage point for fall protection
Recommended Drill Hole in Purlin is 30mm



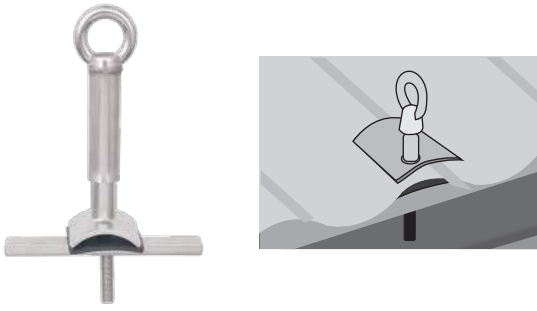
Bolt Anchor Small for Trapezoidal Roof Profile
AFA935504

FEATURES

Bolt anchor design to be fixed on purlins of Trapezoidal roof profile to create permanent anchor.
Rubber washer for proper installation and making roof leak-proof.
Ideal for use as an anchorage point for fall protection
Recommended Drill Hole in Purlin is 30mm

TECHNICAL SNAPSHOT

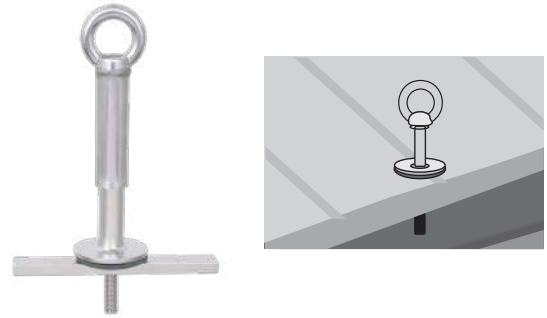
Ref. No	Material	Finish	Weight	Breaking Strength	Conforms to
AFA935501	Stainless Steel	Polished	0.27kgs ± 0.01kgs	15kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935502	Stainless Steel	Polished	0.84kgs ± 0.01kgs	15kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935503	Stainless Steel	Polished	0.76kgs. ± 0.01kgs	15kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935504	Stainless Steel	Polished	0.76kgs ± 0.01kgs	15kN	EN795:2012 Type A, AS/NZS 5532:2013



Bolt Anchor Big for Corrugated Roof Profile
AFA935505

FEATURES

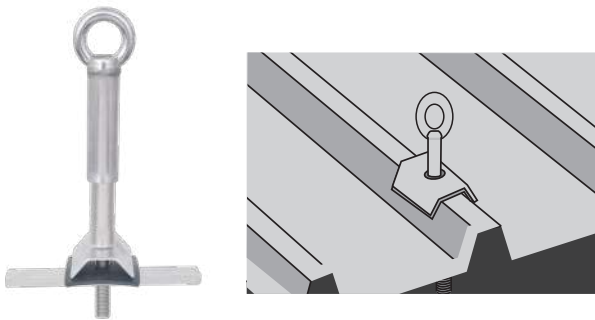
Bolt anchor design to be fixed on purlins of corrugated roof profile to create permanent anchor.
 Rubber washer for proper installation and making roof leak-proof.
 Ideal for use as an anchorage point for fall protection
 Recommended Drill Hole in Purlin is 30mm



Bolt Anchor Big for Flat Pan Roof Profile
AFA935506

FEATURES

Bolt anchor design to be fixed on purlins of flat pan roof profile to create permanent anchor.
 Rubber washer for proper installation and making roof leak-proof.
 Ideal for use as an anchorage point for fall protection
 Recommended Drill Hole in Purlin is 30mm



Bolt Anchor Big for Trapezoidal Roof Profile
AFA935507

FEATURES

Bolt anchor design to be fixed on purlins of Trapezoidal roof profile to create permanent anchor.
 Rubber washer for proper installation and making roof leak-proof.
 Ideal for use as an anchorage point for fall protection
 Recommended Drill Hole in Purlin is 30mm



Toggle Type Anchor
AFA935301

FEATURES

Anchors designed for 4 users to be installed on the roof purlins into a pre-defined hole of dia 36 mm.
 Can be used as individual anchor point and also to form a Horizontal Lifeline over the roof.
 Inbuilt shock absorption to lower impact forces.

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	Breaking Strength	Conforms to
AFA935505	Stainless Steel	Polished	1.3kgs ± 0.01kgs	15kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935506	Stainless Steel	Polished	1.30kgs ± 0.01kgs	15kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935507	Stainless Steel	Polished	1.31kgs ± 0.01kgs	15kN	EN795:2012 Type A, AS/NZS 5532:2013
AFA935301	SS Grade 316	Electro Polished	2.10kgs ± 0.02kgs	15kN	EN795:2012 Type A, TS16415:2013



VERTICAL

ENGINEERED SYSTEMS

- Vertical Fixed Cable & Aluminum Rail Systems have been designed for commercial buildings and industrial structures of all types. Our engineered systems cover all working at heights requirements for maintenance, cleaning, access and inspections.
- The Vertical Fixed Cable Line Fall Arrest System is an integrated solution to arrest the fall of a user who has to constantly climb up and down roof access ladders, silo ladders or any structure that has an element of a potential fall. Safety, simplicity and durability are some key words to explain the advantages of this system.
- The systems is made of Aluminum and Stainless steel components and is maintained in the rigid position by the use of two mounting brackets, one at the top and one at the bottom.
- The Stainless-steel Rope Grab is directly connected to the user without any additional lanyard, reducing your fall distance which reduces forces on your body and structure if a fall should occur.
- The Vertical Fall arrest systems has been rigorously tested and manufactured in accordance with EN353-1 + A1:2017 Standards, ensuring you have quality and guarantee of any system installed onto your asset.

Vertical Anchorage Line System on Rigid Cable Line

AFF7500

EN 353-1:2014+A1:2017



Extension Arm
AFF516600

Certifying to the Norm EN 353-1:2014+A1:2017, this Vertical Fall Arrest System is an integrated solution to arrest the fall of a user who has to constantly climb up and down a ladder.

The Vertical Anchorage Line is made of Stainless Steel Wire Rope and is maintained in the rigid position by use of 2 mounting brackets - one at the top and other at the bottom.

The Stainless Steel Shock Absorbing Rope Grab moves up and down on the Anchorage Line accompanying the user who is connected to it..

To maintain rigidity and 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.









Intermediates are provided at regular intervals to prevent dislocation of the Anchorage Line from its mean position due to wind pressure or mechanical movement.

Options of wire rope terminations available: Swaging type, Swageless type and U bolt thimble termination. (U bolt thimble termination only to be used at the bottom side)

Significant Features are:

- It is simple and easy to install with minimum effort.
- The Rope Grab comes with inbuilt shock absorption and special anti-inversion mechanism which enables it to be fitted always in the correct position.

TECHNICAL SNAPSHOT

Product	Product Name	Ref.	Features
	Mounting Bracket	AFF513700: Material: Stainless Steel AFF513700(EC): Material: Alloy Steel with black ED coating	
	D-shackle	AFF112100D	Material Stainless Steel 316
	Wire crimping assembly	AFF513801	Thimble: Qty-1 no. Ferrule: Qty-2 nos. Aluminum wire rope cap: Qty-1 no.
	Rope Grab	AFG805103	Material of Rope Grab: Stainless Steel Grade 316
	Intermediate	AFF513804	Material: Stainless Steel Grade 316 Recommended Installation-Every 4m
	Set of 2-U Bolts, 1 wire rope cap and 1 Thimble	AFF513000	U-Bolts: Qty- 2 nos. Material: Stainless Steel 316 Thimble: Qty- 1 no. Material: Stainless Steel 316
	Tensioner	AFF514000	Regulates tensioning of the cable. Equipped with a Tension Indicator Material: Stainless Steel Grade 316 Quantity: 1 nos.
	Inspection Plate	FF115100V	For identification traceability and maintenance of implementation records.
	Wire Rope (Cable Wire)	AFF518XXX	Material: Stainless Steel 316 Diameter: 8mm Construction: 7x19
	Optional: Mounting Brackets	AFF511000	Material: Stainless Steel 316 Breaking Strength: 23 kN Complies with EN 795 Type A

Vertical Anchorage Line System on Rigid Aluminium Rail

AFF8000

EN 353-1:2014+A1:2017



This Vertical fall Arrest Anchorage system (certifying to EN 353-1:2014+A1:2017) 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 3 mtr lengths 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, when 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.

TECHNICAL SNAPSHOT

Product	Product Name	Ref.	Features
	Aluminum Extension	AFF531500	Material: Extruded Aluminium Alloy Length: 1.5m
	Junction	AFF533000	Used to connect two rails together Junction Material: Aluminium Fasteners Material: Stainless Steel
	Aluminium Rail Intermediate	AFF531100	Material: Extruded Aluminium Alloy Length: 3.0m
	Vertical Trolley	AFF539000	Material: Stainless Steel (316) Trolley with Brass wheel which provides frictionless movement Anti Inversion Pin
	Rung Clamp	AFF533500	Material: Stainless Steel 316 Helps to Clamp the system onto the underlying ladder
	Aluminium Rail Extremity	AFF531710	Material: Extruded Aluminium Alloy. Locking Jib to prevent unintentional release of trolley from the rail Length: 3.0m
	Karabiner	AFC601101C	Quarter Turn Auto-locking Steel Karabiner Material: Alloy Steel
	Inspection Plate	AFF115100V	For identification, traceability and maintenance of implementation records.

Vertical Anchorage Line System on Rigid Aluminium Rail

AFF9000

EN 353-1:2014+A1:2017

This is a complete Fall protection Ladder System which consists of ED Coated Black 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 Rungs of the Ladder, made of Alloy 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 limbing.

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.



Option of Half Rungs Ladder **AFF532100**,
AFF532200 also available.

Ladder Rung Material: CED coated(black)

TECHNICAL SNAPSHOT

Product	Product Name	Ref.	Features
	Aluminum Extension	AFF531500	Material: Extruded Aluminium Alloy Length: 1.5m
	Junction	AFF533000	Used to connect two rails together Clamp made up of Aluminium Alloy and Fasteners-SS316
	Ladder Rung Assembly	AFF532000	Ladder Rung Material: ED Coated
	Aluminium Rail Intermediate with Rung	AFF531100	Material: Extruded Aluminium Alloy Length: 3.0m
	Vertical Trolley	AFF539000	Material: Stainless Steel (316) Trolley with Brass wheels which provide frictionless movement. Anti inversion pin to prevent unintentional release of trolley from the rail
	Karabiner	AFC601101C	Quarter Turn Auto-locking Steel Karabiner Material: Alloy Steel
	Aluminium Rail Extremity	AFF531710	Material: Extruded Aluminium Alloy. Length: 3 m
	Inspection Plate	AFF115100V	For identification, traceability and maintenance of implementation records.
	Stainless Steel Mounting Nut	AFF533790	To connect the rail to the mounting Bracket Material: Stainless Steel 316 Also available in Galvanized Steel version Ref. PN 5000(06)R
	Stainless Steel Ceiling Mounting Bracket	AFF533700	Material: Stainless Steel 316 Helps to mount the ladder on to the underlying structure
	Extendable Bracket	AFF533800 AFF533801	Material: Stainless Steel 316 Helps to mount the ladder on to the underlying structure

Fixed Line System Design and Installation Service

The Anchorage forms an important part of Fall Protection System. In the event of movement at height, along the vertical or a horizontal axis, we require an Anchorage System that spans across this movement. The Fixed Line Systems are as such specially engineered systems.

It is important to understand that the Forces experienced over the system and underlying structures in the event of a fall, are extremely complex to calculate and define.

KStrong offers exceptional expertise to combat the problem. KStrong has a dedicated Team of trained Engineers who, by virtue of their experience and knowledge, are able to suggest optimal solutions for the requirement of FLS.

This offers the following advantage to the Client:

- Provide a safe solution for anchorage.
- Optimize the cost of the solution through Engineered products.
- Safeguard the underlying structure on which the Line is installed.

KStrong uses the latest Design software like CAD, and Structural Design Software like StaadPro to accurately design Anchorage Line System, and simulate the forces in the event of a fall. The compass app predicts forces at extremity and deflection in life lines according to the client's configuration and recommends optimum bill of quantity.

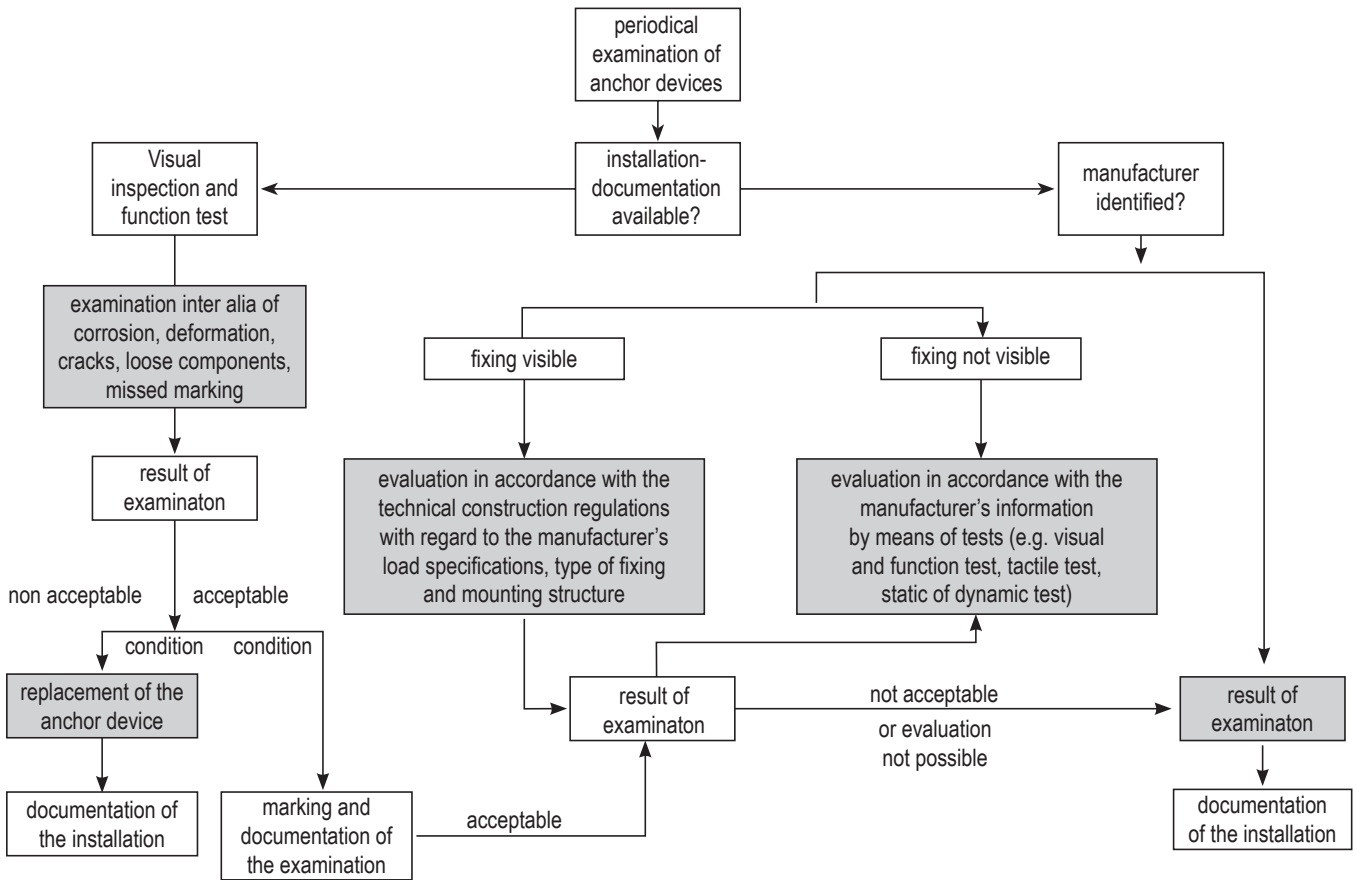
It is also extremely important for the Client to be confident of the system installed. Team KStrong uses specialized Onsite Testing and Proof-loading Equipment from HydraJaws UK, to provide this specialized service.

KStrong also provides services for Annual on-site Inspection and Revalidation of these Systems.

Why is Revalidation of Fall Protection Equipment important ?

Fall Protection Equipment are life saving products. As per the EN 365 of PPE Directives, it is mandatory to have a 'Competent Authority' inspect the Fall Protection Equipment at least once annually.

Periodic Examination Chart



For Further information write to us at customercare@KStrong.in

Ref. No.	Product Name	Page No.	Ref. No.	Product Name	Page No.
AFF112100	Shock Absorber	17	AFA935205(120°)	Corner Post for Internal Bend for Wall Mounted Lifeline	33
AFF114100TF	Tensioner With Swaging	18	AFA935205(60°)	Corner Post for External Bend for Wall Mounted Lifeline	33
AFF114100(SL)	Swageless Tensioner	18	AFA935205(90°)	Corner Post for External Bend for Wall Mounted Lifeline	33
AFF518XXX(S)	Stainless Steel Cable	19	AFA935206(1200°)	Corner Post for External Bend for Wall Mounted Lifeline	33
AFF5187X7XXXS	Stainless Steel Cable	19	AFF5000	Horizontal Anchorage Lifeline System on Aluminium Line	34
AFF518119XXXS	Stainless Steel Cable	19	AFF5000	(Floor Mounted) Horizontal Anchorage Lifeline System on Aluminium Line (Floor Mounted)	34
AFF119000	Traveler	20	AFF5000	(Wall Mounted) Horizontal Anchorage Lifeline System on Aluminium Line (Wall Mounted)	35
AFF512001	Cable Extremity Swageless	21	AFF5000	(Ceiling Mounted) Horizontal Anchorage Lifeline System on Aluminium Line (Ceiling Mounted)	36
AFF113210	Swaged	21	AFF531010	Curved Aluminium Rail (Outer Wall Mounted)	37
AFA935410	Extremity Post for Trapezoidal Roof Sheets	22	AFF531020	Curved Aluminium Rail (Inner Wall Mounted)	37
AFA935156	Standing Seam Extremity Post	22	AFF531030	Curved Aluminium Rail (Ceiling/ Floors)	37
AFA935156BS	Broad Standing Seam Extremity Post	22	AFA935801	Fixed Post	38
AFA935168	Kliplok Extremity Post	22	AFA935801(SS)	Fixed Post	38
AFA935420	Intermediate Post for Trapezoidal Roof Sheets	23	AFA935851	Fixed Post	38
AFA935157	Intermediate Post for Standing Seam	23	AFA935851(SS)	Fixed Post	38
AFA935157BS	Broad Intermediate Post for Standing Seam	23	AFA935811	Fixed Post	39
AFA935169	Intermediate Post For Kliplok	23	AFA935811(SS)	Fixed Post	39
AFA935430(60°)	Corner Post for Trapezoidal Roof Sheets	24	AFA935821	Fixed Post	39
AFA935430(90°)	Corner Post for Trapezoidal Roof Sheets	24	AFA935821(SS)	Fixed Post	39
AFA935430(120°)	Corner Post for Trapezoidal Roof Sheets	24	AFA935831	Steel Anchor	40
AFA935171(60°)	Corner Post For Standing Seam Roof	24	AFA935831(SS)	Steel Anchor	40
AFA935171(90°)	Corner Post For Standing Seam Roof	24	AFA935841	Anchor	40
AFA935171(120°)	Corner Post For Standing Seam Roof	24	AFA935501	Roof Bolt Anchor	41
AFA935171BS(60°)	Broad Corner Post For Standing Seam	24	AFA935502	Bolt Anchor Small for Corrugated Roof Profile	41
AFA935171BS(90°)	Broad Corner Post For Standing Seam	24	AFA935503	Bolt Anchor Small for Flat Pan Roof Profile	41
AFA935171BS(120°)	Broad Corner Post For Standing Seam	24	AFA935504	Bolt Anchor Small for Trapezoidal Roof Profile	41
AFA935185(60°)	Corner Bend Post For Kliplok	24	AFA935505	Bolt Anchor Big for Corrugated Roof Profile	42
AFA935185(90°)	Corner Bend Post For Kliplok	24	AFA935506	Bolt Anchor Big for Flat Pan Roof Profile	42
AFA935185(120°)	Corner Bend Post For Kliplok	24	AFA935507	Bolt Anchor Big for Trapezoidal Roof Profile	42
AFA935430(CB)	Variable Corner Bend Post for Trapezoidal Roof	25	AFA935301	Toggle Type Anchor	42
AFA935171(CB)	Corner Bend Post For Standing Seam Roof	25	AFF7500	Vertical Anchorage Line System on Rigid Cable Line	44
AFA935171BS(CB)	Corner Bend Post for Standing Seam Roof	25	AFF8000	Vertical Anchorage Line System on Rigid Aluminium Rail	45
AFA935185(CB)	Corner Bend Post For Kliplok Roof	25	AFF9000	Vertical Anchorage Line System on Rigid Aluminium Rail	46
AFA935407	Anchor Post to mount SRL'S for Standing Seam Roof	26			
AFA935408	Anchor Post to mount SRL'S for Trapezoidal Roof	26			
AFA935370	Aluminium Anchor for Standing Seam Roof	26			
AFF115101H	Inspection Plate	27			
AFF4000	(Floor/Ceiling Mounted) Horizontal Anchorage Lifeline System on Rigid Cable Line	28			
AFF4000	(Floor Mounted) Horizontal Anchorage Lifeline System on Rigid Cable Line (Floor Mounted)	28			
AFF4000	(Wall Mounted) Horizontal Anchorage Lifeline System on Rigid Cable Line (Wall Mounted)	29			
AFF4000	(Ceiling Mounted) Horizontal Anchorage Lifeline System on Rigid Cable Line (Ceiling Mounted)	30			
AFX206009	Double Tandem Pulley Small with SS Sheaves	31			
AFF4000LS	Horizontal Life Line system designed for Single spans up to 35m. (18kN)	32			
AFX206009(60°)	Corner Post for Floor/Ceiling	33			
AFF4000LS(90°)	Corner Post for Floor/Ceiling	33			
AFA935204(120°)	Corner Post for Floor/Ceiling	33			
AFA935204(60°)	Corner Post for Internal Bend for Wall Mounted Lifeline	33			
AFA935204(90°)	Corner Post for Internal Bend for Wall Mounted Lifeline	33			



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