

KSTRONG®
UNRIVALED SAFETY.

FIXED LINE SYSTEMS



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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.

KS GROUP



ASIA PACIFIC

KStrong Asia was established to serve the diverse fall protection safety needs of the Asia Pacific region using local support and knowledge. Headquartered in Singapore, with a fully operational warehouse, KStrong Asia provides direct support across the region through an experienced and dedicated team of over 20 professionals. Developing and creating tailored solutions partnered with extended local channels in languages such as Korean, Vietnamese, Thai, Chinese, Malay and more makes us unique. Offering direct professional support in each country, KStrong Asia ensures better accessibility, compliance, and user engagement thus bringing the globally trusted strength and innovation of the KS Group closer to regional industries and their needs.

ABOUT KS GROUP

The KS Group is a global leader in providing comprehensive Fall Protection and Personal Protective Equipment (PPE) solutions, and is a robust dynamic conglomerate, uniting three powerful Safety Brands: KARAM, KRATOS SAFETY and KStrong. With nearly three decades of dedicated service, we have built a trusted name in the industrial safety sector across the globe.

Brand KARAM operates in India, Africa, and the Middle East; KRATOS SAFETY caters to the European market; and KStrong covers North and South America, Asia Pacific, and Australia. Each brand offers specialized safety solutions that adhere to the highest standards of quality and performance, and are tailored to meet the requirements of the customers in each of their distinct regions. Whether it is delivering products certified to meet local safety standards, addressing region-specific requirements, or providing support in the local language, these brands are committed to offering solutions that are truly customized for the markets they serve.

The mission of KS Group is to save millions of lives working in the Industrial Environment across the globe, serving the needs of customers through highest standards of quality in product and service, over a foundation of uncompromising values and corporate governance. Quality is the cornerstone of our success, reflected in both manufacturing and service. Our products comply with major global safety standards, including those from Europe, the United States, Canada, Australia and New Zealand, Africa, Brazil, and India.

Our manufacturing excellence, supported by fully vertically integrated facilities spanning over 65 acres in India and South Africa, ensures the production of precise, high-quality, and reliable products. With a portfolio of nearly 3,900 globally certified products, we offer a comprehensive range of Fall protection solutions. Our robust global distribution network, with strategically located warehouses across India, Singapore, South Africa, France, USA, Dubai, Brazil and Australia enables timely delivery to over 140 countries worldwide.

With a strong global presence, an unwavering commitment to safety, and a legacy of excellence, the KS Group continues to protect lives and elevate industry standards worldwide.



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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 25 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.

Address: Villanova Zona Industriale, 7/A
33013 LONGARONE (BL) - ITALY
Tel.: +39 0437 573407 Fax: +39 0437 573131
Web site: www.dolomitcert.it E-mail: info@dolomitcert.it



ATTESTATION OF CONFORMITY
number 222050

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

Anchor device
Model:
Davit Arm

Date: 28th 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 under 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 primary Compliance of Conformity (Compliance of Conformity number 1765 issued in date 18/10/2017 by Dolomitcert Scarl for the anchor device model "Davit Arm", variants "DAB2" and "DAB3", holder of the Compliance of Conformity in P.A. INTERNATIONAL).

ANCCP
Certification Agency

CERTIFICATION OF CONFORMITY
PPE 20928 AC 390

We hereby certify that on the product

Protection devices against falls from a height
Anchor device Type D Model: AFF5000 (having components) AFF51000, AFF531700, AFF531010, AFF531020, AFF531030, AFF533000, AFF533700, AFF533710, AFF533720, AFF533790, AFF533795 for 6 users

Manufactured by
KStrong Asia Pte Ltd
33A Chandler Road, 219539 Singapore

have been carried out conformity tests according to the following standards:

CEN / TS 16415: 2013 (Anchor devices for more than one user - up to 6 users)
EN 795: 2012 (Fall protection devices - Anchor devices)

Detailed information about sampling, composition, identification, principles of measuring, test configurations, are specified in the following test reports:

Test Report
Issued on: 27/09/2022 Laboratory: ANCCP Certification Agency Test report n°: PPE-20619-IP-001/1

Date of first issue: 28/09/2022
Date of current issue: 28/09/2022

General Manager (signature and stamp)

CONDITIONS
ANCCP Certification Agency declares that the tests were performed on the samples as reported in the aforementioned test report.
ANCCP Certification Agency does not verify the model to the Essential health and safety Requirements which provide CE marking according to European Directives/Regulations.
Any design, manufacturing or installation changes to the assessed model, require to be re-tested.

ANCCP Certification Agency S.r.l. - Via dello Stagnone, 6 - 37121 Verona (VI) - Italy
T +39 (0)566 209066 - F +39 (0)566 278450 - anccp@anccp.it - www.anccp.it

apave

In accordance with Regulation (EU) 2016/425 of the European Parliament and of the Council of 14 March 2016 on Personal Protective Equipment and repealing the Directive 89/686/EEC and in conformity with the EU CE Marking Scheme of Figure 14.001/14.001.001.

Apave Exploitation France, notified body identified under number 0082, awards the Apave Certification France, notified body identified under number 0082, awards the

EU TYPE-EXAMINATION CERTIFICATE
Attestation d'examen UE de type
N° 0082/3969/160/06/23/0452

The following PPE type complies with the applicable essential health and safety requirements
Le type de REPI suivant est conforme aux exigences essentielles de santé et de sécurité applicables

PPE: PPE category III - Low stretch kernmantle ropes
EPI: EPI de catégorie III - Cordes treillis gainés à faible coefficient d'allongement

Trademark: KSTRONG
Marque commerciale: KSTRONG

Model: AFK200012XXXX (XXXX = rope length)
Modèle: (XXXX = corde longueur)

Manufacturer: KSTRONG ASIA PTE LTD - 33A Chandler Road - 219539 SINGAPORE - Singapore
Fabricant: KSTRONG

Description: Type A low stretch kernmantle rope, diameter 11.9mm. Core and sheath in polyamide. Core: 16 braided strands. Sheath: 56 carrier machines. Ends not performed, not sewn (detailed description in EU type examination report 22 1245)
Description: Corde treillis gainée à faible coefficient d'allongement de type A, diamètre 11.9 mm. Arête et gaine en polyamide. Arête: 16 brins tressés. Gaine: 56 machines porteuses. Extrémités non réalisées, non cousues (description détaillée dans le rapport d'examen UE de type 22 1245)

Technical reference: EN 1891-1998
Référence technique: EN 1891-1998

Date of signature (day/month/year): 26/06/2023 PPE Certification Manager
Date de signature (jour/mois/année): 26/06/2023 Le Responsable de la Certification EPI

Date of issue (day/month/year): 26/06/2023
Date de délivrance (jour/mois/année): 26/06/2023

Date of renewal (day/month/year): first edition
Date de renouvellement (jour/mois/année): 1^{ère} édition

Date of expiry (day/month/year): 26/06/2028
Date d'expiration (jour/mois/année): 26/06/2028

Headquarter (day/month/year): Apave Exploitation France SAS - 8 rue du Général Audin 92412 COURBEVOIE Cedex - France, RCS Nanterre 503 805 618

Technická inšpekcia, a.s.
Tmavská cesta 56, 821 01 Bratislava, Slovenská republika

ACKNOWLEDGEMENT OF RECEIPT
no. 10101/2023

Technická inšpekcia, a. s.,
Tmavská cesta 56, 821 01 Bratislava
Notified body: 1354

confirms, that Technical File Documentation







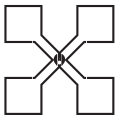
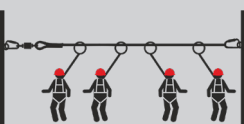
prepared by
KStrong Asia Pte Ltd
33A CHANDLER ROAD, SINGAPORE 219539

has been received and stored according to the Article 13 (1)(b) of Directive no. 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres

Scope of Examinations:
FALL PROTECTION EQUIPMENTS

No.	Product	Model
1.	RETRACTABLE FALL ARREST BLOC	AFS1020R, AFS1010R, AFS1000R, AFS1001R, AFS1002R, AFS1003R, AFS1004R, AFS1005R, AFS1006R, AFS1007R, AFS1008R, AFS1009R, AFS1010R, AFS1011R, AFS1012R, AFS1013R, AFS1014R, AFS1015R, AFS1016R, AFS1017R, AFS1018R, AFS1019R, AFS1020R, AFS1021R, AFS1022R, AFS1023R, AFS1024R, AFS1025R, AFS1026R, AFS1027R, AFS1028R, AFS1029R, AFS1030R, AFS1031R, AFS1032R, AFS1033R, AFS1034R, AFS1035R, AFS1036R, AFS1037R, AFS1038R, AFS1039R, AFS1040R, AFS1041R, AFS1042R, AFS1043R, AFS1044R, AFS1045R, AFS1046R, AFS1047R, AFS1048R, AFS1049R, AFS1050R, AFS1051R, AFS1052R, AFS1053R, AFS1054R, AFS1055R, AFS1056R, AFS1057R, AFS1058R, AFS1059R, AFS1060R, AFS1061R, AFS1062R, AFS1063R, AFS1064R, AFS1065R, AFS1066R, AFS1067R, AFS1068R, AFS1069R, AFS1070R, AFS1071R, AFS1072R, AFS1073R, AFS1074R, AFS1075R, AFS1076R, AFS1077R, AFS1078R, AFS1079R, AFS1080R, AFS1081R, AFS1082R, AFS1083R, AFS1084R, AFS1085R, AFS1086R, AFS1087R, AFS1088R, AFS1089R, AFS1090R, AFS1091R, AFS1092R, AFS1093R, AFS1094R, 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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** (100 kgs) 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 (Traveler).

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.

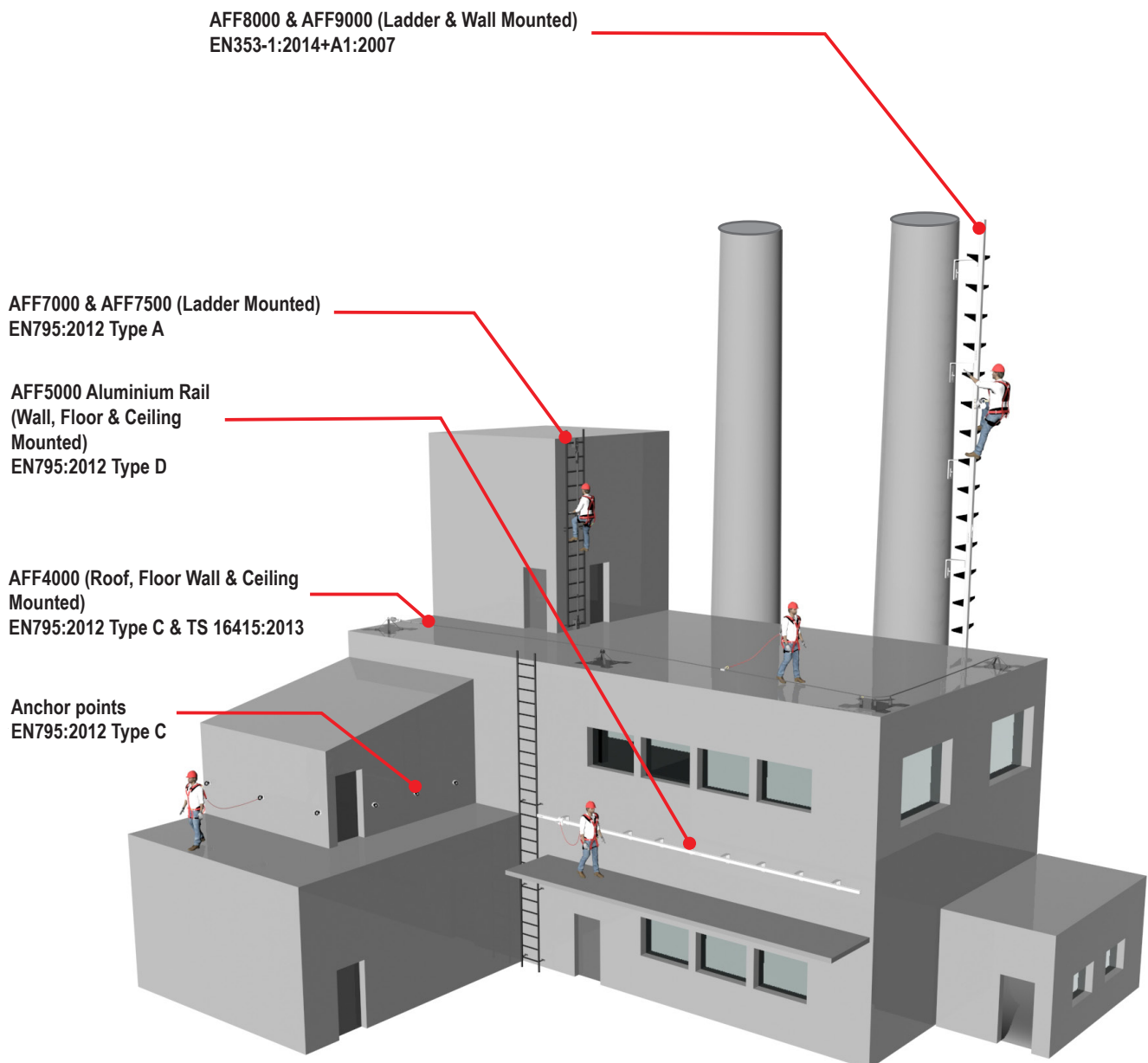
This European Standard applies to rigid anchor lines which are intended to be installed vertically.

Horizontal Lifeline Systems

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

Vertical Lifeline Systems

AFF7000 Wire Rope (Ladder Mounted)
AFF7500 Wire Rope (Ladder Mounted)
AFF8000 Aluminium Rail (Ladder Mounted)
AFF9000 Aluminium 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 system 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

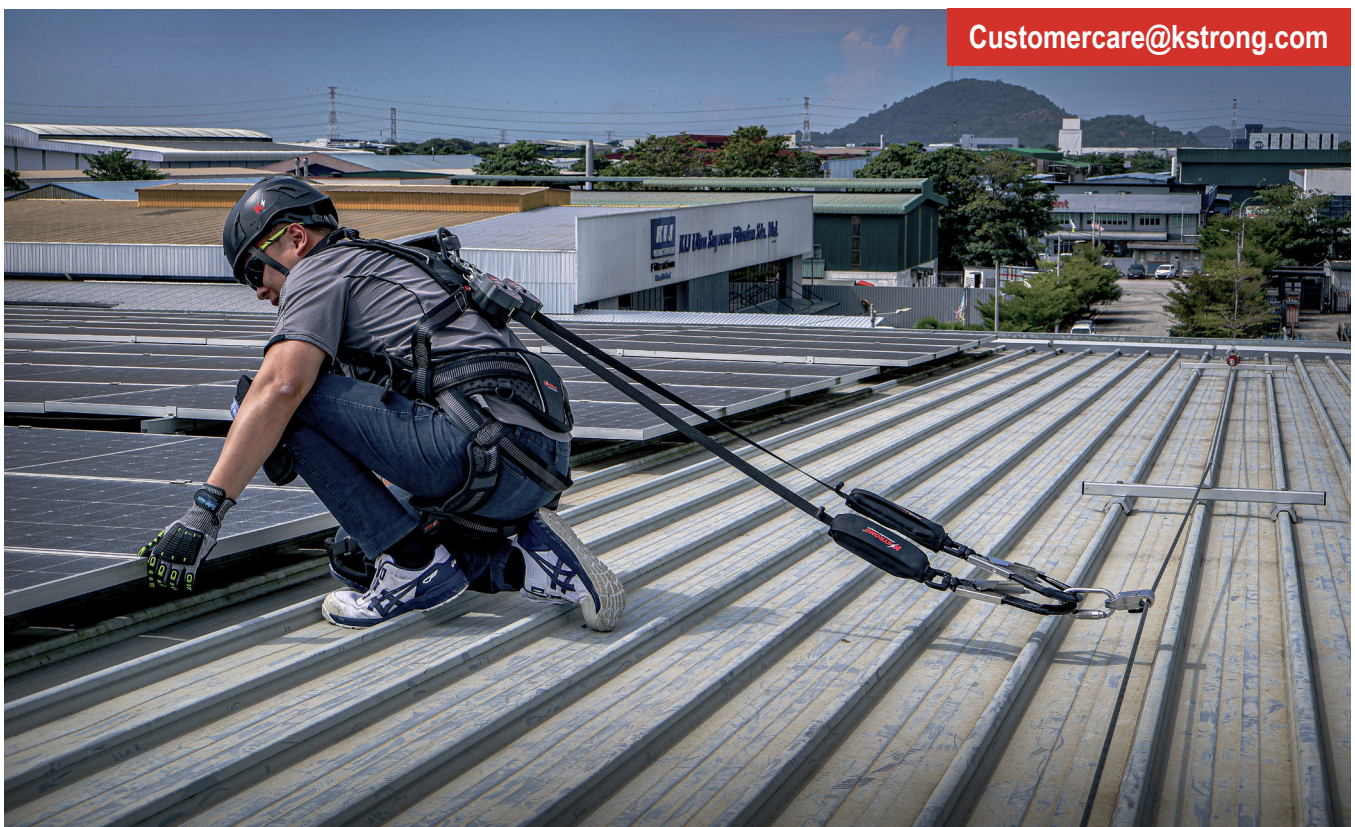
Section 2-Common hazards (Each Hazard identified below must be assessed)

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

JOB SAFETY ANALYSIS

[illegible]

Remember: • Each JSA must be site specific. • Include all workers in the development of this JSA.



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 Impaxx Posts are suitable for a variety of roof sheet profiles with a minimum thickness of 0.40mm for steel and 0.70mm for Aluminium. KStrong does not take responsibility for malfunction due to inadequacy in the receiving structure.

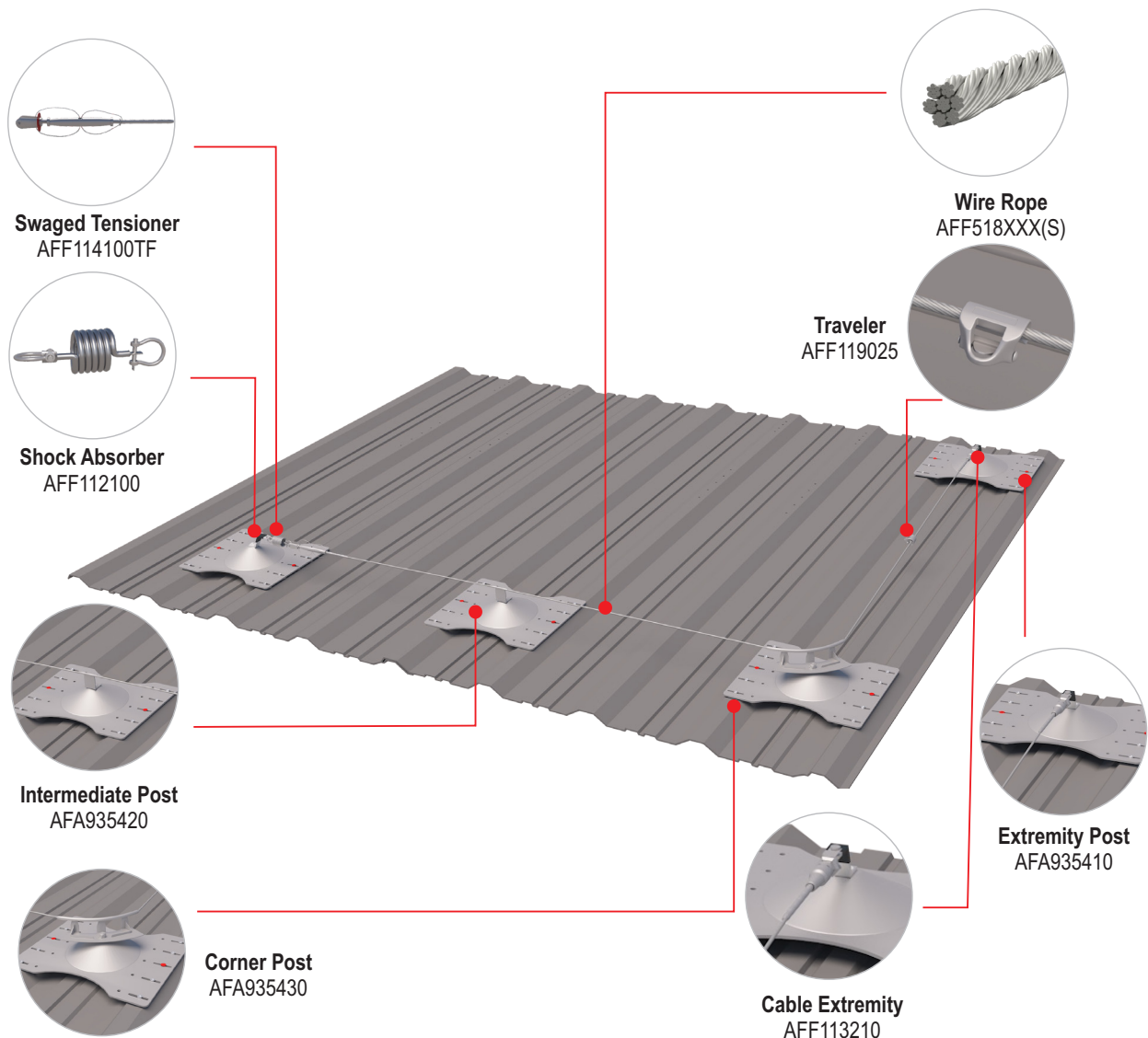
If the strength of the structure is less than 12 kN, (such as Aluminium roofing sheets, concrete, or brick walls), then the Compass software allows the engineer to compute an optimum bill of material (BOM), based on the structure's strength.

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.

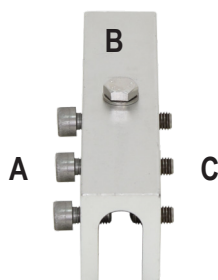
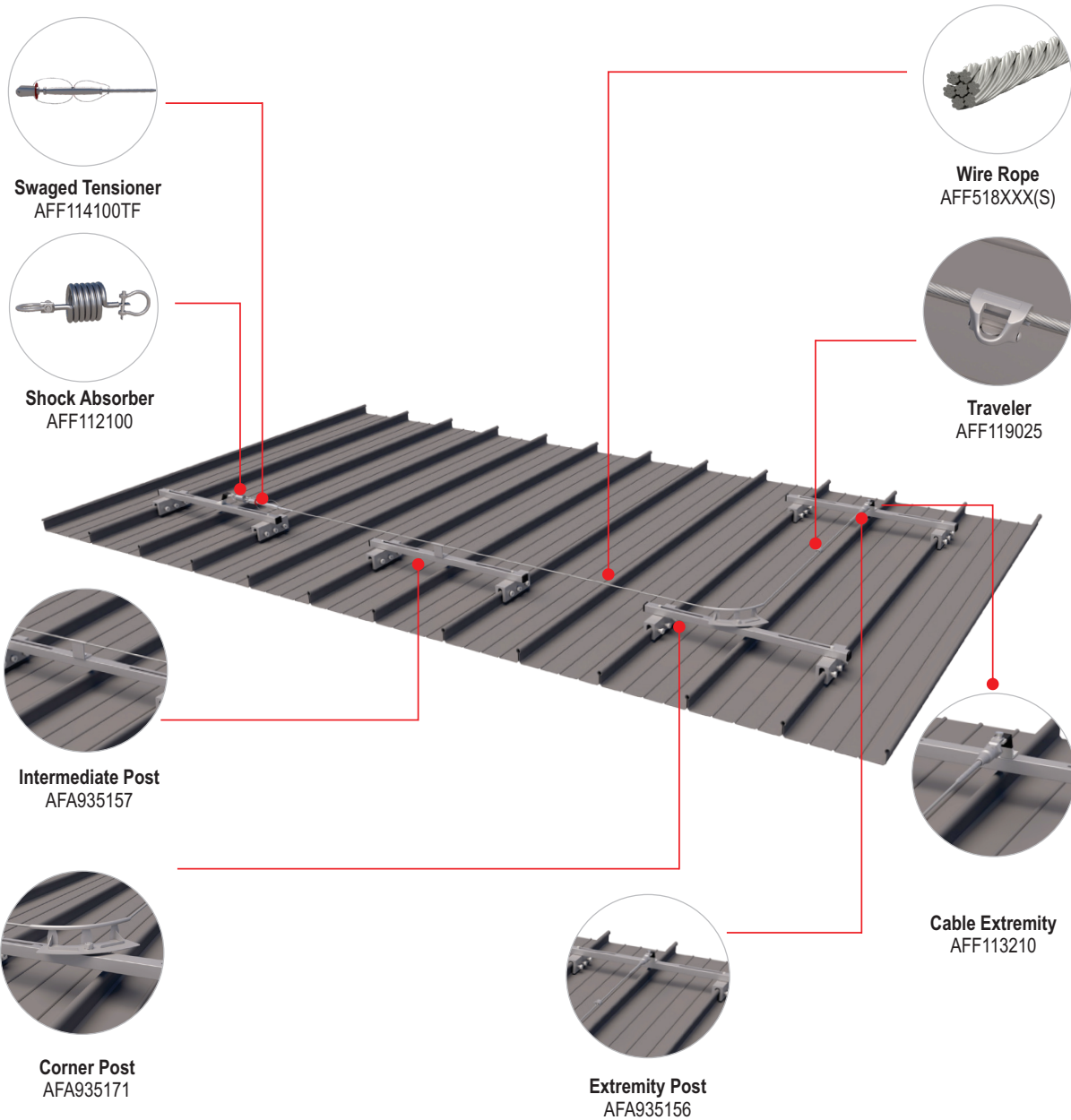
Third party installations by uncertified installers are not recommended for these products. In case of third-party installations, KStrong will not be held responsible for any failure of the product in its intended use.

IMPAXX Fall Arrest System Components

Trapezoidal Roof Profiles



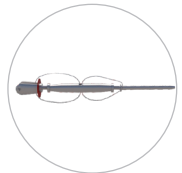
Standing Seam Roof Profiles



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

Kliplok Roof Profiles



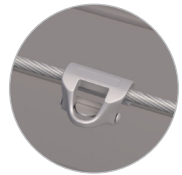
Swaged Tensioner
AFF114100TF



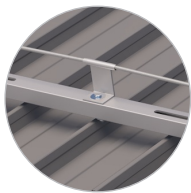
Shock Absorber
AFF112100



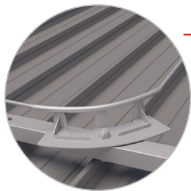
Wire Rope
AFF518XXX(S)



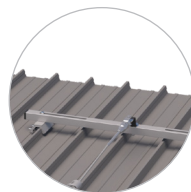
Traveler
AFF119025



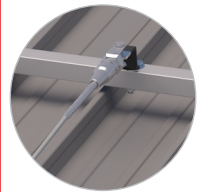
Intermediate Post
AFA935169



Corner Post
AFA935185



Extremity Post
AFA935168

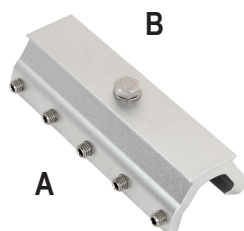


Cable Extremity
AFF113210

KLIPOK CLAMPS

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

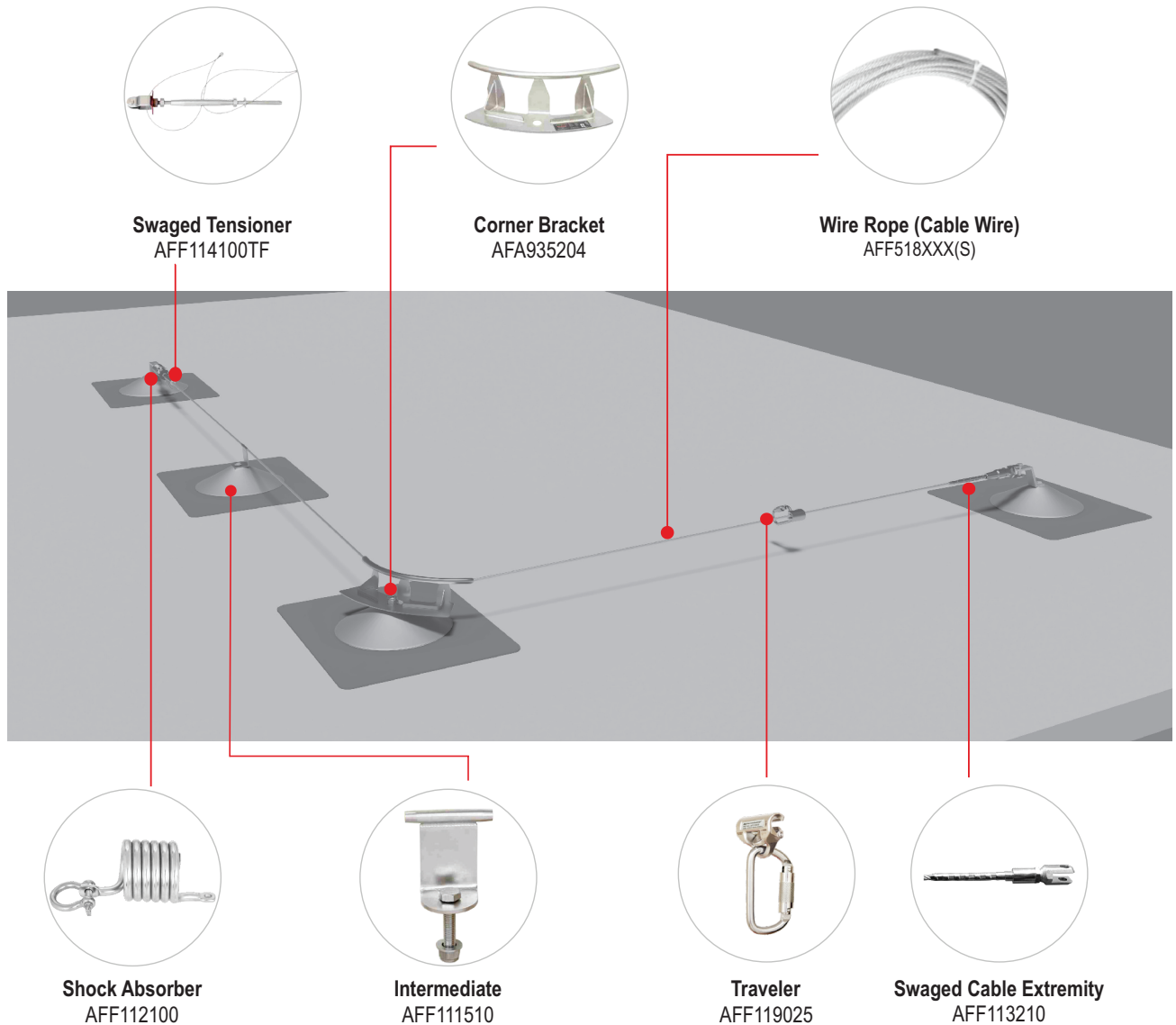
KLIPOK



KLIPOK FASTENERS / CONNECTOR

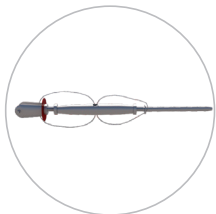
Type	A) Grub Screw	B) Hex Bolt
Size(mm)	10X25	12X25
Qty	5	1
Torque	15 Nm	17 Nm

Membrane Posts Roof Profiles

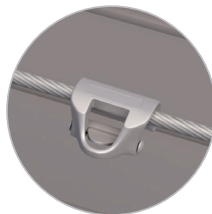


Constant Force Posts Roof Profiles

Trapezoidal Roof Profiles



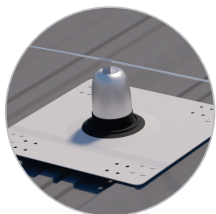
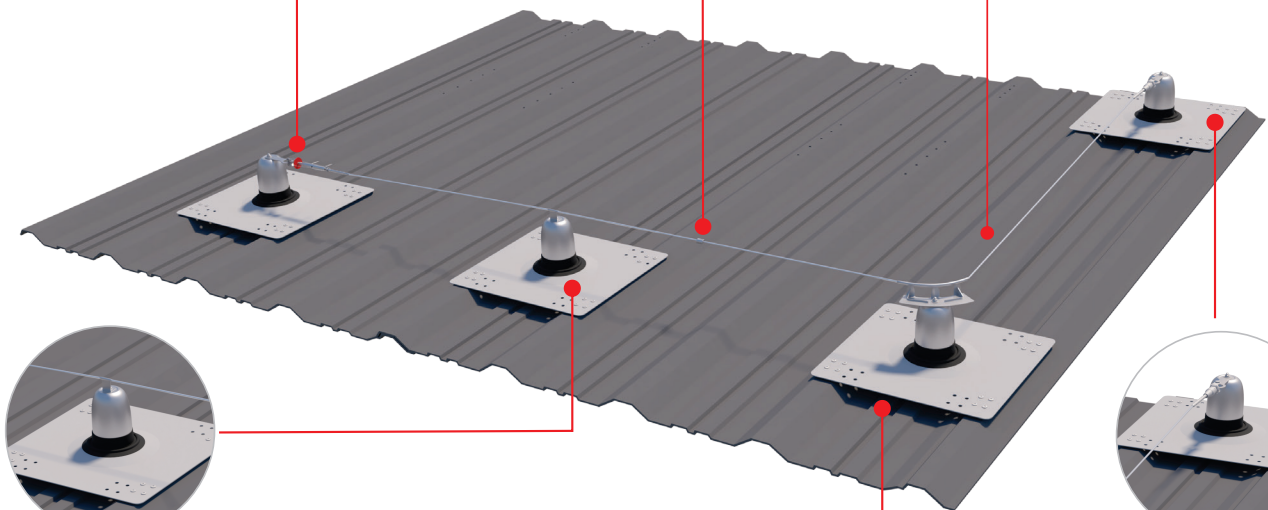
Swaged Tensioner
AFF114100TF



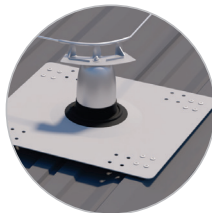
Traveler
AFF119025



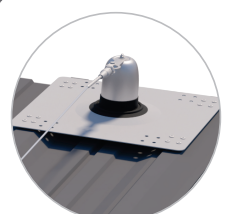
Wire Rope
AFF518XXX(S)



Intermediate Post
AFA935326

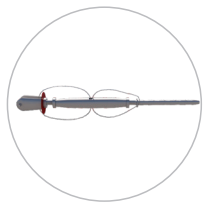


Corner Post
AFA935335



Extremity Post
AFA935325

Standing Seam Roof Profiles



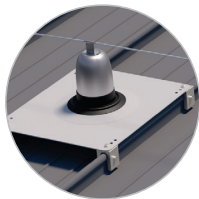
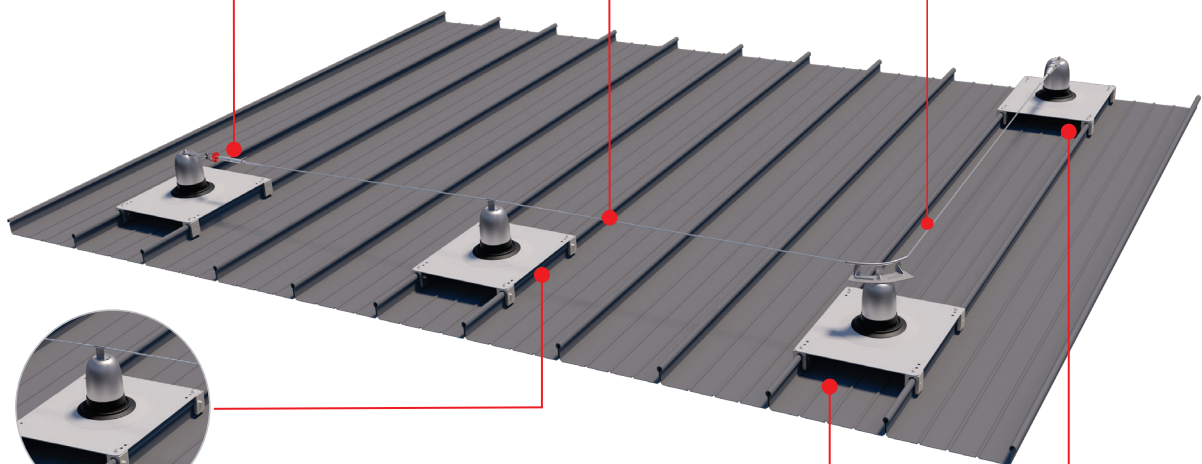
Swaged Tensioner
AFF114100TF



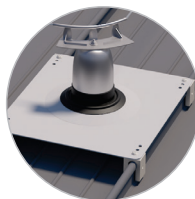
Traveler
AFF119025



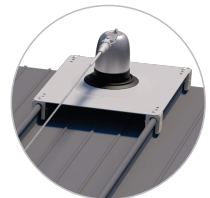
Wire Rope
AFF518XXX(S)



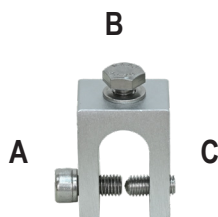
Intermediate Post
AFA935355



Corner Post
AFA935365



Extremity Post
AFA935345



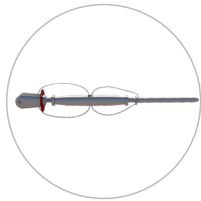
AFA935170

STANDING SEAM FASTENERS / CONNECTOR

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

HORIZONTAL ANCHORAGE LINE SYSTEM

Kliplok Roof Profiles



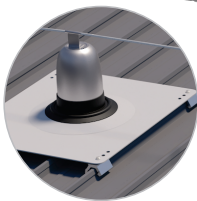
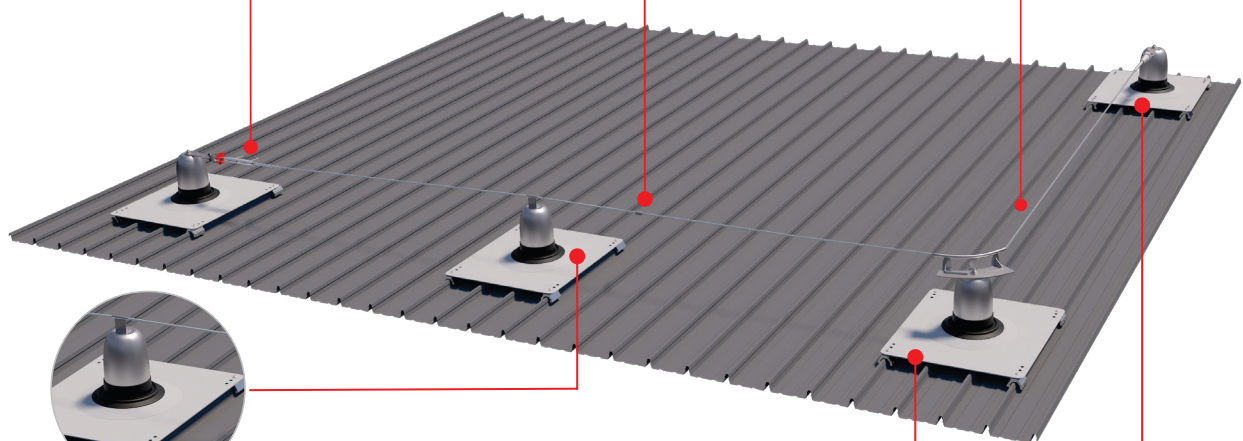
Swaged Tensioner
AFF114100TF



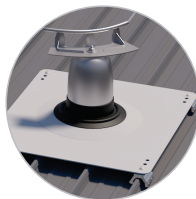
Traveler
AFF119025



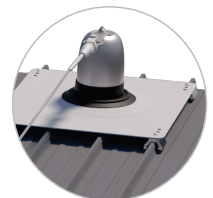
Wire Rope
AFF518XXX(S)



Intermediate Post
AFA935376



Corner Post
AFA935385



Extremity Post
AFA935375

KLIPOK CLAMPS

Product Code	Suitable Roof Profile
AFA935172	KLIPOK 770
AFA935173	KLIPOK 406
AFA935181	KLIPOK 700

KLIPOK

B

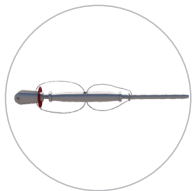


A

KLIPOK FASTENERS / CONNECTOR

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

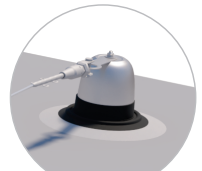
Membrane Posts Roof Profiles



Swaged Tensioner
AFF114100TF



Wire Rope
AFF518XXX(S)



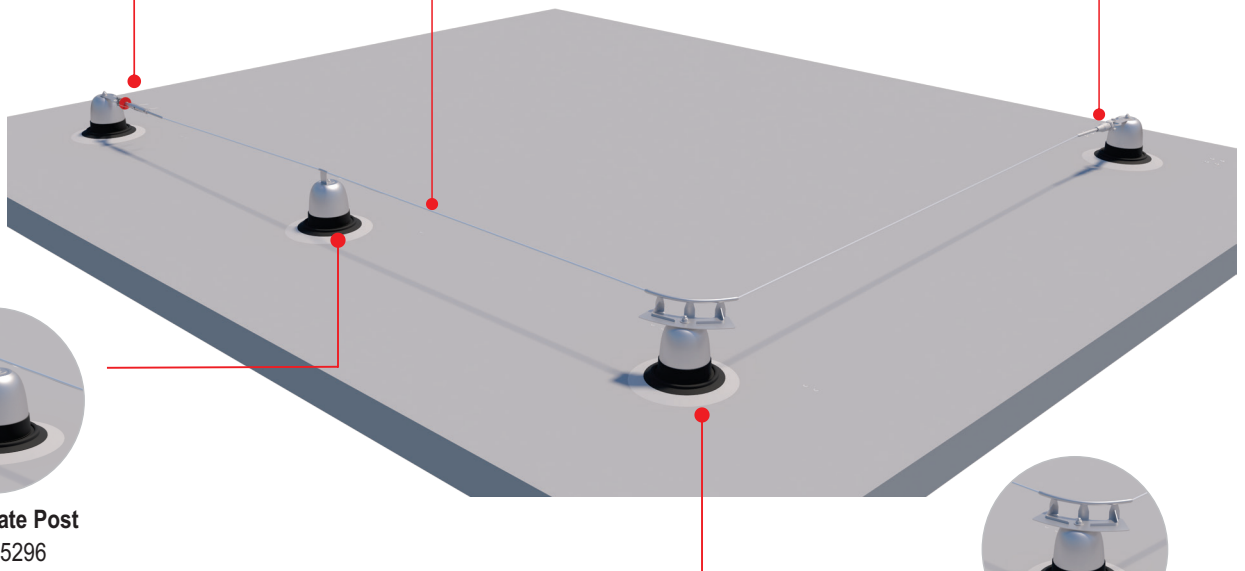
Extremity Post
AFA935295



Intermediate Post
AFA935296



Corner Post
AFA935297



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

Component	Code	Qty. Required
Shock Absorber	AFF112100	1 no.
Tensioner	AFF114100TF	1 no.
Wire Rope	AFF518XXX(S)	As per length
Traveler	AFF119025	As per no. of users
Cable Extremity	AFF113210	1 no.
Inspection Plate	AFF115101	1 no.
Solar Spacer	AFA935950	As required

IMPAXX FALL ARREST SYSTEM COMPONENTS

Roof Posts	Trapezoidal	Standing Seam	KlipLok	Membrane Roof Top Anchor Posts
Extremity Posts	AFA935410	AFA935156	AFA935168	AFA935290
Intermediate Posts	AFA935420	AFA935157	AFA935169	AFA935291
Corner Posts (60,90,120 Degrees)	AFA935430	AFA935171	AFA935185	AFA935292
Variable Corner Bend	AFA935430(CB)	AFA935171(CB)	AFA935185(CB)	AFA935292(CB)

CONSTANT FORCE POST

Roof Posts	Trapezoidal	Standing Seam	KlipLok	Membrane Roof Top Anchor Posts
Extremity Posts	AFA935325	AFA935345	AFA935375	AFA935295
Intermediate Posts	AFA935326	AFA935355	AFA935376	AFA935296
Corner Posts (60,90,120 Degrees)	AFA935335	AFA935365	AFA935385	AFA935297
Variable Corner Bend Posts	AFA935335(CB)	AFA935355(CB)	AFA935385(CB)	AFA935297(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 SRLs in conjunction with a full body harness.



Energy Absorbing
Twin Webbing
Lanyard
AFL408612



Work Positioning
Lanyard with Grip
Adjuster
AFL405351(PR)



Rope Line with
Shock Absorber
AFA951201



2m Twin Micron SRL
AFS550102D



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.



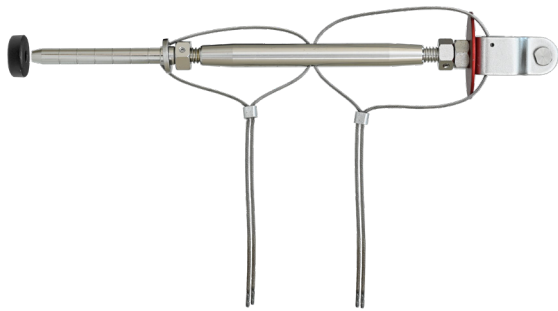
AFF112100

TECHNICAL SNAPSHOT

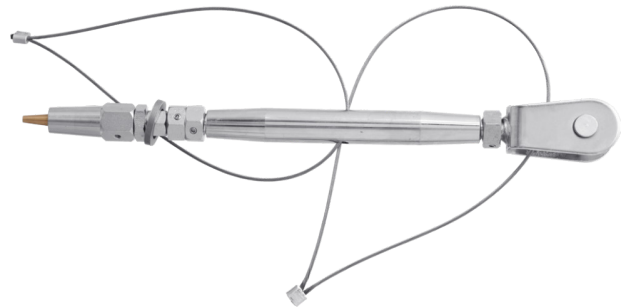
Shock Absorber	AFF112100
Design	Multiple User
Application	Spring type shock absorber. It reduces the impact force in the event of a fall or overloading on the system.
Minimum Activation Force	1 kN
Length	258 mm
Material	Shock Absorber 304 Stainless Steel D-Shackle 316 Stainless Steel
MBS	25 kN
Weight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

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

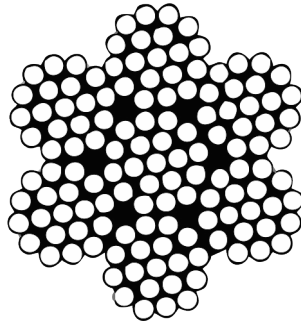
Tensioner	AFF114100TF	AFF114100(SL)
Design	It has one side swage and one side eye to fix in the shock absorber	It has one side swage less extremity and one side eye to fix in the shock absorber
Application	The tension device is an interconnection between the cable and shock absorber with cable length 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 kgs	1.0 kgs
Operating Temperature	-40°C to +60°C	-40°C to +60°C
Inspection Frequency	Annual	Annual
MBS	25 kN	35 kN
Conforms to	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Wire Rope

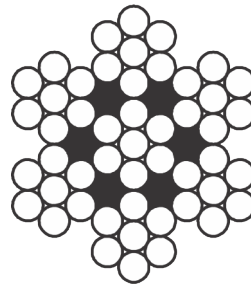
Stainless Steel Cable



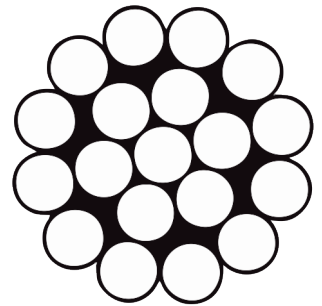
Wire



7 Strands of 19 wires



7 Strands of 07 wires



1 Strands of 19 wires



8mm Wire Cable

TECHNICAL SNAPSHOT

Wire Rope	AFF518XXX(S)	AFF5187X7XXS	AFF518119XXS
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 12385-4 + A1:2008	EN 12385-4 + A1:2008	EN 12385-4 + A1:2008

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

Traveler	AFF119025
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)	Traveler: Stainless Steel Grade 316 Karabiner: Stainless Steel Grade 316, 23 kN
Weight of Traveler & Karabiner	0.410 kgs
Operating Temperature	-40°C to +60°C
Recommended Inspection Frequency	Annual
MBS	23 kN
Conforms to	EN 795:2012 Type C

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 130 kN 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 kgs	0.5 kgs
Operating Temperature	-40°C to +60°C	-40°C to +60°C
Recommended Inspection Frequency	Annual	Annual
MBS	25 kN	25 kN
Conforms to	EN 795:2012 Type C	EN 795:2012 Type C

Types of Posts

The IMPAXX Posts are suitable for a range of metal roof profiles and PEB structures. The posts have designed to activate 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 Aluminium 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 Kliplik 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 Kliplik roof profiles with Aluminium clamps attached to the base of the posts.

Trapezoidal Roof Posts



**Extremity Post for
Trapezoidal Roof
AFA935410**



**Intermediate Post for
Trapezoidal Roof
AFA935420**



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



**Variable Corner Bend Post
for Trapezoidal Roof
AFA935430(CB)**

TECHNICAL SNAPSHOT

Trapezoidal Posts	AFA935410	AFA935420	AFA935430 (60, 90, 120 degree)	AFA935430(CB)
Seam Distance	195 mm to 305 mm	195 mm to 305 mm	195 mm to 305 mm	195 mm to 305 mm
Material	316 Stainless Steel ED Coated	316 Stainless Steel ED Coated	316 Stainless Steel ED Coated	316 Stainless Steel ED Coated
Weight	1.9 kgs	3.40 kgs \pm 0.05 kgs	2.18 kgs \pm 0.02 kgs	1.79 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Standing Seam Posts



**Extremity Post for
Standing Seam Roof
AFA935156**



**Intermediate Post for
Standing Seam
AFA935157**



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



**Variable Corner Bend
Post For Standing
Seam Roof
AFA935171(CB)**

TECHNICAL SNAPSHOT

Standing Seam Posts	AFA935156	AFA935157	AFA935171 (60,90,120 degree)	AFA935171(CB)
Seam Distance	320 mm to 650 mm	320 mm to 650 mm	320 mm to 650 mm	320 mm to 650 mm
Material	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized
Weight	2.95 kgs \pm 0.05 kgs	2.70 kgs \pm 0.05 kgs	3.31 kgs \pm 0.50 kgs 3.26 kgs \pm 0.50 kgs 3.33 kgs \pm 0.50 kgs	2.81 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Broad Standing Seam Posts



**Extremity Post for Broad
Standing Seam Roof
AFA935156BS**



**Intermediate Post for Broad
Standing Seam Roof
AFA935157BS**



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



**Variable Corner Bend
Post for Broad Standing
Seam Roof
AFA935171BS(CB)**

TECHNICAL SNAPSHOT

Broad Standing Seam Posts	AFA935156BS	AFA935157BS	AFA935171BS (60, 90, 120 Degree)	AFA935171BS(CB)
Seam distance span	320 mm to 750 mm	320 mm to 750 mm	320 mm to 750 mm	320 mm to 750 mm
Material	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized
Weight	3.214 kgs \pm 0.050 kgs	2.96 kgs \pm 0.05 kgs	3.58 kgs \pm 0.50 kgs 3.53 kgs \pm 0.50 kgs 3.60 kgs \pm 0.50 kgs	2.81 kgs
Span Distance	5 to 15 meters	5 to 15 meters	5 to 15 meters	5 to 15 meters
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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Kliplok Posts



**Extremity Post for
Kliplok Roof
AFA935168**



**Intermediate Post
For Kliplok Roof
AFA935169**



**Corner Post For
Kliplok Roof
AFA935185
(60), (90), (120) Degrees**



**Variable Corner
Bend Post For
Kliplok Roof
AFA935185(CB)**

TECHNICAL SNAPSHOT

Kliplok Posts	AFA935168	AFA935169	AFA935185 (60, 90, 120 degree)	AFA935185(CB)
Seam distance span	320 mm to 650 mm	320 mm to 650 mm	320 mm to 650 mm	320 mm to 650 mm
Material	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized	6061 T6 Aluminium: Anodized 316 Stainless Steel, Electro Polished 6005 T5 Aluminium, Anodized
Weight	2.47 kgs ± 0.05 kgs	2.22 kgs ± 0.05 kgs	2.76 kgs ± 0.50 kgs 2.78kgs ± 0.50 kgs 3.04 kgs ± 0.50 kgs	2.58 kgs ± 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
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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

HORIZONTAL ANCHORAGE LINE SYSTEM

Membrane Posts



**Extremity Post for
Membrane Roof
AFA935290**



**Intermediate Post
for Membrane Roof
AFA935291**



**Corner Post for
Membrane Roof
AFA935292
(60), (90), (120) Degrees**



**Variable Corner Bend Post
for Membrane Roof
AFA935292(CB)**

TECHNICAL SNAPSHOT

Membrane Posts	AFA935290	AFA935291	AFA935292 (60, 90, 120 Degree)	AFA935292(CB)
Seam Distance	195 mm to 305 mm	195 mm to 305 mm	195 mm to 350 mm	195 mm to 350 mm
Material	316 Stainless Steel ED Coated	316 Stainless Steel ED Coated	316 Stainless Steel ED Coated	316 Stainless Steel ED Coated
Weight	4.093 kgs \pm 0.020 kgs	3.520 kgs \pm 0.020 kgs	3.83 kgs \pm 0.50 kgs 3.87 kgs \pm 0.50 kgs 3.85kgs \pm 0.50 kgs	3.383 kgs \pm 0.020 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Constant Force Posts

The IMPAXX Constant Force Posts, are suitable for a range of metal roof profiles and PEB structures. These posts are designed with an inbuilt shock absorption mechanism which activates in the event of a fall, reducing the forces on the user's body to bearable limits while leaving the roof panel intact to maintain architectural integrity.

Trapezoidal Roof Posts



**Extremity Post for
Trapezoidal Roof
AFA935325**



**Intermediate Post
for Trapezoidal Roof
AFA935326**



**Corner Post for
Trapezoidal Roof
AFA935335
(60), (90), (120) Degrees**



**Variable Corner Bend Post
for Trapezoidal Roof
AFA935335(CB)**

TECHNICAL SNAPSHOT

Trapezoidal Posts	AFA935325	AFA935326	AFA935335 (60, 90, 120 Degree)	AFA935335(CB)
Seam Distance	200 mm to 367 mm	200 mm to 367 mm	200 mm to 367 mm	200 mm to 367 mm
Material	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.
Weight	3.744 kgs ± 0.050 kgs	3.770 kgs ± 0.050 kgs	4.371 kgs ± 0.050 kgs	3.939 kgs ± 0.050 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Standing Seam Posts



**Extremity Post for
Standing Seam Roof
AFA935345**



**Intermediate Post for
Standing Seam Roof
AFA935355**



**Corner Post For
Standing Seam Roof
AFA935365
(60), (90), (120) Degrees**



**Variable Corner Bend
Post For Standing
Seam Roof
AFA935355(CB)**

TECHNICAL SNAPSHOT

Standing Seam Posts	AFA935345	AFA935355	AFA935365 (60, 90, 120 Degree)	AFA935355(CB)
Seam Distance	200 mm to 400 mm	200 mm to 400 mm	200 mm to 400 mm	200 mm to 400 mm
Material	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel. Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel. Base plate: Aluminium Alloy.
Weight	4.678 kgs \pm 0.050 kgs	4.706 kgs \pm 0.050 kgs	5.306 kgs \pm 0.050 kgs	4.875 kgs \pm 0.050 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Broad Standing Seam Posts



**Extremity Post for
Standing Seam Roof
AFA935345BS**



**Intermediate Post for
Standing Seam Roof
AFA935355BS**



**Corner Post For
Standing Seam Roof
AFA935365BS
(60), (90), (120) Degrees**



**Variable Corner Bend
Post For Standing
Seam Roof
AFA935355BS(CB)**

TECHNICAL SNAPSHOT

Broad Standing Seam Posts	AFA935345BS	AFA935355BS	AFA935365BS (60, 90, 120 Degree)	AFA935365BS(CB)
Seam Distance	260mm - 500mm	260mm - 500mm	260mm - 500mm	260mm - 500mm
Material	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel . Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel . Base plate: Aluminium Alloy.
Weight	4.398 kgs ± 0.050 kgs	4.426 kgs ± 0.050 kgs	5.026 kgs ± 0.050 kgs	4.595 kgs ± 0.050 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Kliplok Posts



**Extremity Post for
Kliplok Roof
AFA935375**



**Intermediate Post
For Kliplok Roof
AFA935376**



**Corner Post For
Kliplok Roof
AFA935385
(60), (90), (120) Degrees**



**Variable Corner
Bend Post For
Kliplok Roof
AFA935385(CB)**

TECHNICAL SNAPSHOT

Kliplok Posts	AFA935375	AFA935376	AFA935385 (60, 90, 120 Degree)	AFA935385(CB)
Seam Distance	200 mm to 400 mm	200 mm to 400 mm	200 mm to 400 mm	200 mm to 400 mm
Material	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.
Weight	4.398 kgs \pm 0.050 kgs	4.426 kgs \pm 0.050 kgs	5.026 kgs \pm 0.050 kgs	4.595 kgs \pm 0.050 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Membrane Posts



**Extremity Post
for Membrane Roof
AFA935295**



**Intermediate Post
for Membrane Roof
AFA935296**



**Corner Post for
Membrane Roof
AFA935297
(60), (90), (120) Degrees**



**Variable Corner Bend Post
for Membrane Roof
AFA935297(CB)**

TECHNICAL SNAPSHOT

Membrane Posts	AFA935295	AFA935296	AFA935297 (60, 90, 120 Degree)	AFA935297(CB)
Seam Distance	269 x 269 mm	269 x 269 mm	269 x 269 mm	269 x 269 mm
Material	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel Base plate: Aluminium Alloy.	Shock absorber assembly: Stainless Steel . Base plate: Aluminium Alloy.
Weight	4.713 kg \pm 0.020 kgs	4.710 kg \pm 0.020 kgs	5.286 kg \pm 0.020 kgs	4.882 kg \pm 0.020 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 A & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Optional Products



Solar Spacer
AFA935950



Cable Extremity
Stoppers AFF114191



Retrofit Cable Extremity
Stopper
AFF114192



Wire Joiner
AFF111506

TECHNICAL SNAPSHOT

Cable Termination	AFA935950	AFF114191	AFF114192	AFF111506
Material	Stainless Steel	Nylon Plain	Polymer	Stainless Steel
Finish	Electropolished / E Coated.	-	-	Polished
Weight	0.740 kgs	7.6 gms	8 gms.	148.0 gms



Anchor Post to mount SRLs for Standing Seam Roof
AFA935407

FEATURES

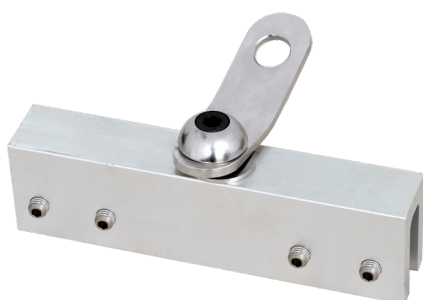
Anchor Post designed to be fixed on standing seam roofs having pitch between 600mm - 900mm.
Compatible with all KStrong range of retractable fall arrester Blocks, allowing 360° rotation.
Easy to install & reusable.
Can be installed on upto 23.0mm bulb size of standing seam roof.



Anchor Post to mount SRLs 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.



Standalone Counterweight Anchor Post (300KG)
AFA935865

FEATURES

Has top steel plates which are hot dip galvanized / ED coated and provide the required weight.
The bottom plates are rubber coated to provide proper grip over the roof surface. All the plates are held together by steel cross bars.
Central extended anchorage eye provides anchorage for 1 user and ensures that the connecting lanyard does not rub onto the ground
Can be used as a fall restraint system

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935407	Alloy Steel	ED coated black	15.97 kgs ± 0.200 kgs	23 kN	EN 795:2012 TYPE A & AS/NZS 5532:2013
AFA935408	Alloy Steel	ED coated black	14.2 kgs ± 0.10 kgs	23 kN	EN 795:2012 TYPE A & AS/NZS 5532:2013
AFA935370	High Strength Aluminium Alloy	Anodized	834 gms ± 10 gms	15 kN	EN 795:2012 TYPE A & AS/NZS 5532:2013
AFA935865	High Strength Alloy Steel	Powder Coated	316.5 kgs ± 0.10 kgs	15 kN	EN 795:2012 TYPE E, TS16415:2013 & AS/NZS 5532:2013

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

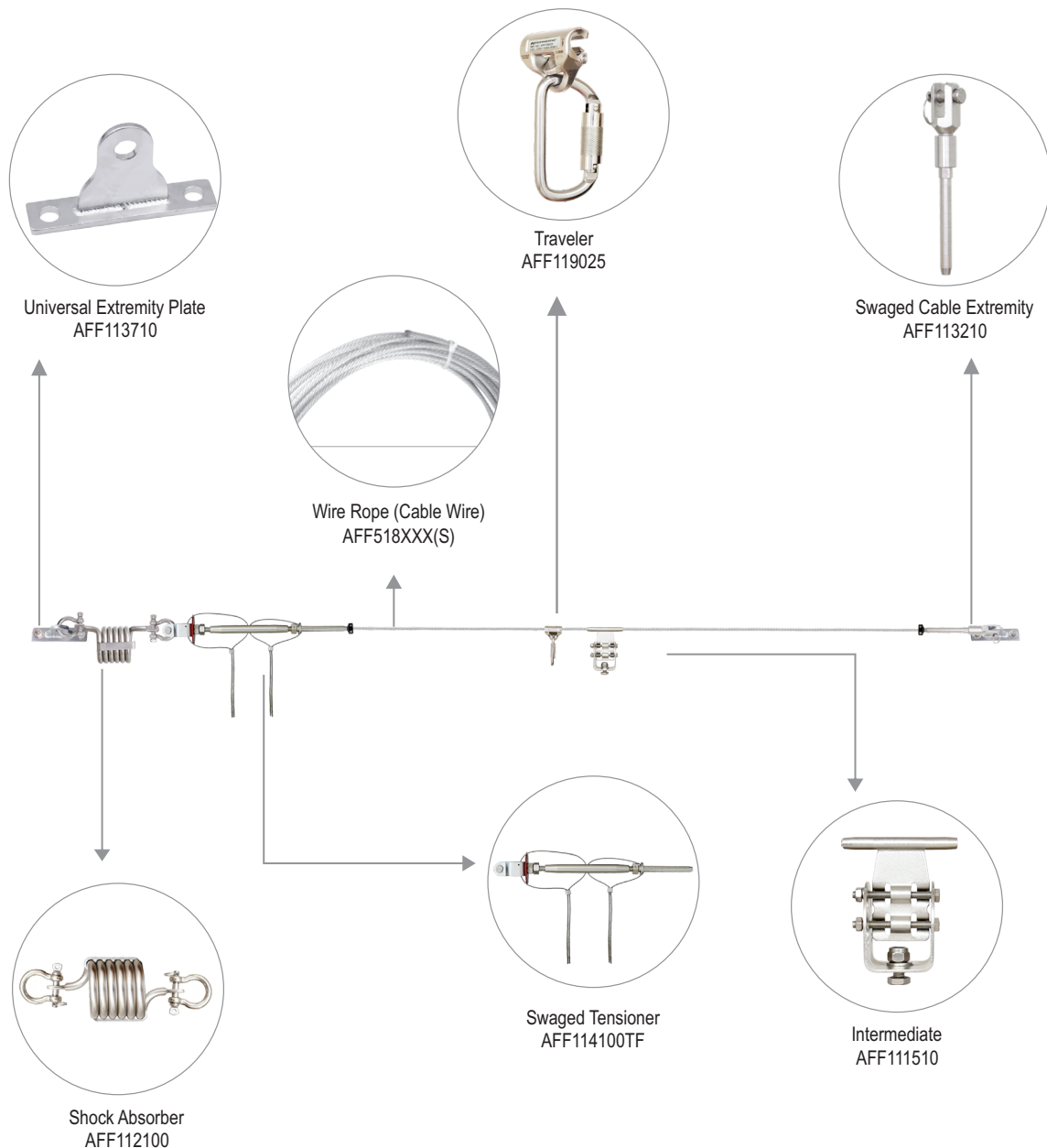
The Fixed Cable Line Fall Arrest system is an integrated solution to arrest the fall of a user who constantly works on any building/ structure that has an element of a potential fall and where your only fall arrest connection point is above your head or on the side of a building or structure.

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)



Component Chart

The chart below shows all the components of the AFF4000 Horizontal Lifeline System on concrete structure with their appropriate product codes and quantity required in a system.

TECHNICAL SNAPSHOT

Component	Code	Qty. Required
Universal Extremity Plate	AFF113710	2 nos.
Traveler c/w Karabiner (Overhead & Wall Mount Only)	AFF119028	1 no.
Traveler c/w Karabiner (Floor Mount Only)	AFF119025	1 no.
Swaged Cable Extremity	AFF113210	1 no.
Wire Rope (8mm 7x19 Cable Wire)	AFF518XXX(S)	As per length
Shock Absorber	AFF112100	1 no.
Swaged Tensioner	AFF114100TF	1 no.
Intermediate 220 Deg Swivel Bracket	AFF111510	As required
Overhead Intermediate	AFF111510(OH)	Optional
Overhead Variable Corner Bend	AFF111510(CB)	Optional

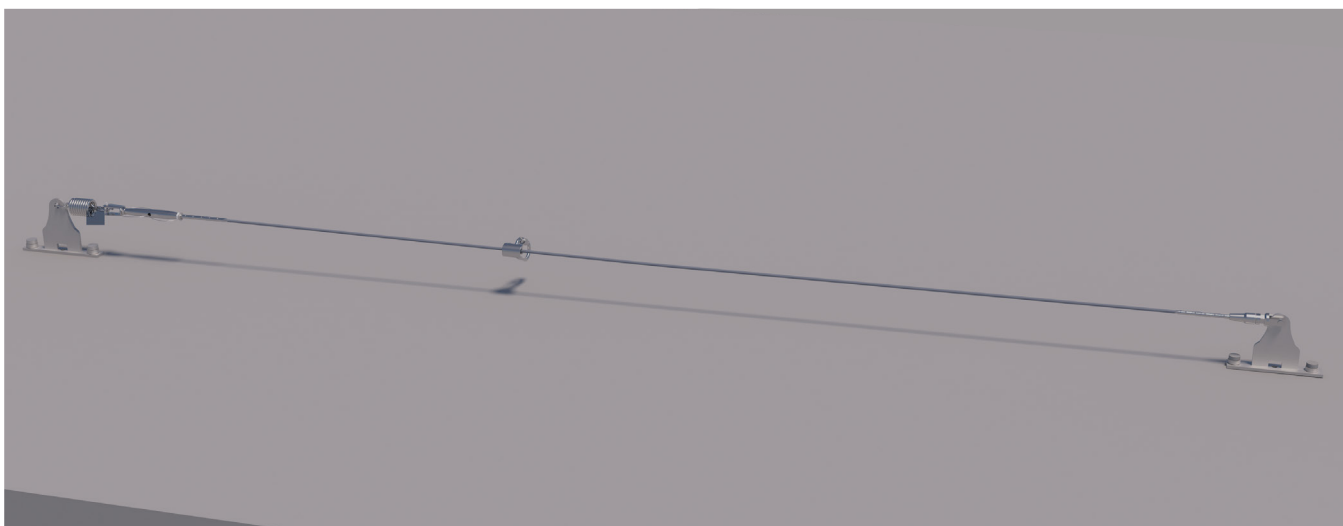
Optional Components

Pipe Mounting Brackets	AFF113735, AFF113735(M) & AFF113735(L)
Intermediate Spacer	AFF111510(S)

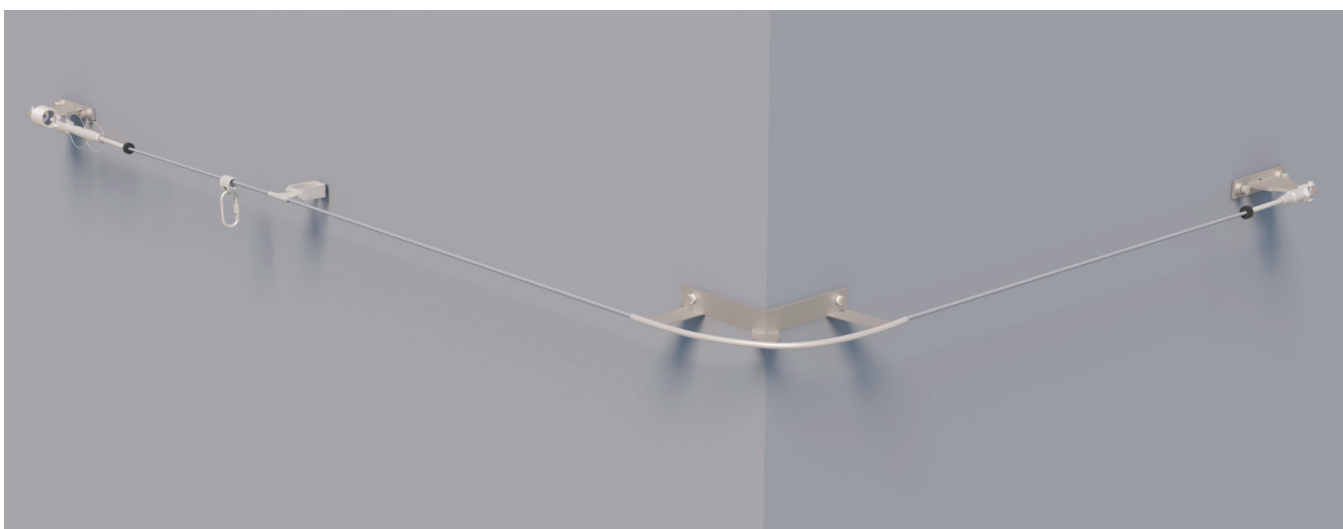
Ceiling Mounted



Floor Mounted

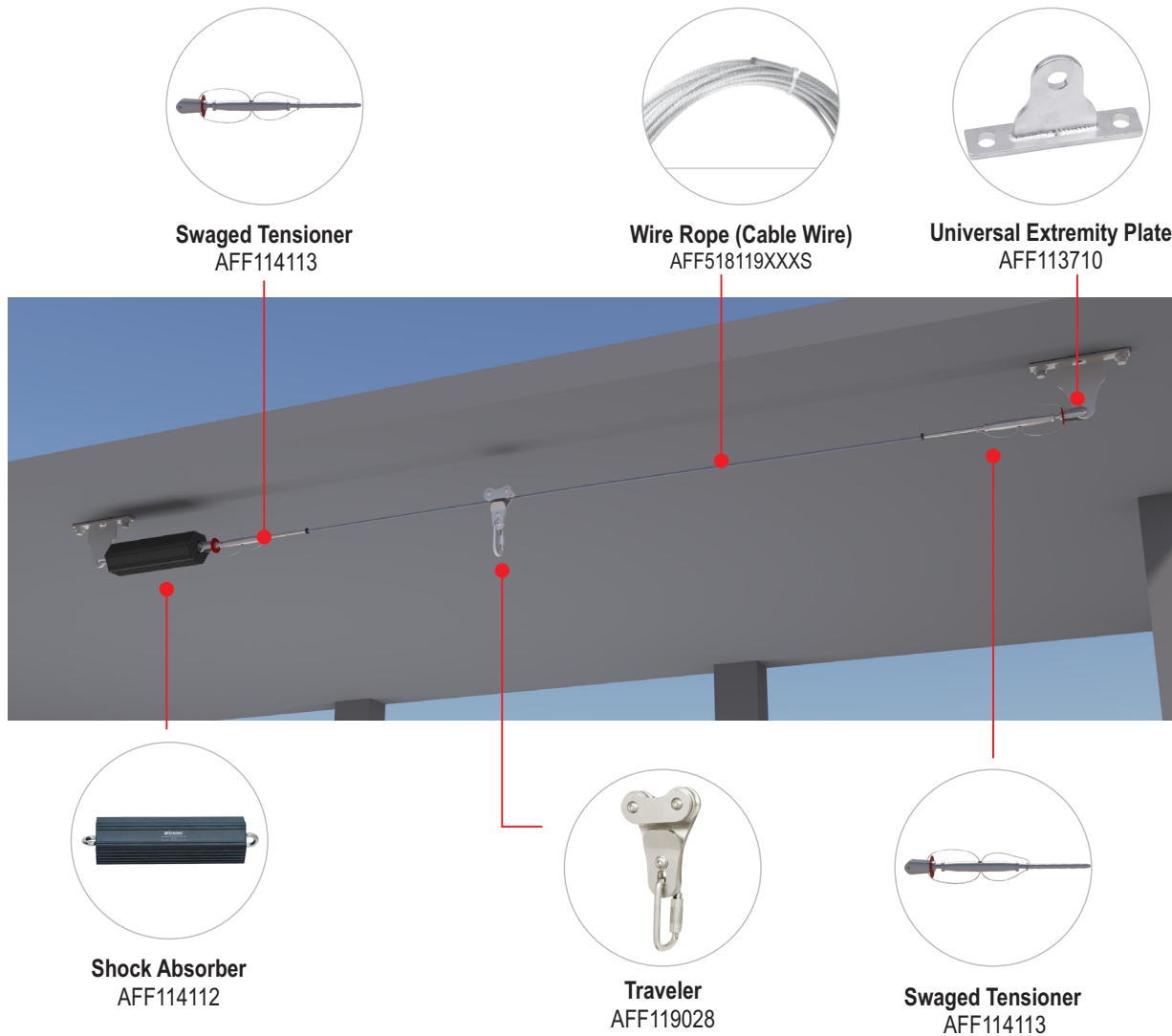


Wall Mounted



AFF4000LS 18 kN Horizontal Lifeline System Designed for Single Spans up to 35 meters

It has been designed to start to deploy when 18 kN of force has been applied, allowing the line to be pretensioned at a higher force. The result is very low deflection in cable and very low fall arrest distance. Suitable for 7 users.



AFF4000LS 18 kN LONG SPAN

TECHNICAL SNAPSHOT

Product Name	Component	Features	Qty. Required
Shock Absorber 18 kN	AFF114112	Material: Stainless Steel 316 & Aluminium	1 No.
Long Span Swaged Tensioners	AFF114113	Regulates cable tension up to 5 kN Material: Stainless Steel 316 Feature: Swage termination	2 Nos.
Wire Rope (8mm 1x19 Cable Wire)	AFF518119XXS	Material: Stainless Steel 316 Diameter: 8mm Construction: 1x19 High breaking strength and low elongation	As per length
Traveler	AFF119028	Material: Stainless Steel 316 Trolley wheels reduced friction	1 No.
Universal Extremity Plate	AFF113710	Material: Stainless Steel 316	2 Nos.
Inspection Plate	AFF115100H	For identification traceability and maintenance of implementation records.	1 No.

Universal Extremity Plate

Stainless Steel Universal Extremity Plate is used to create an anchor point at the ends of the lifeline.



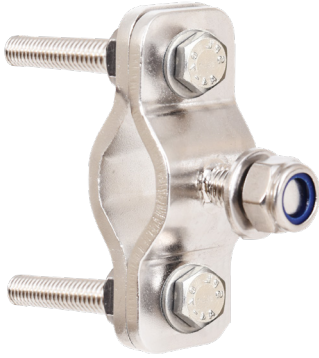
AFF113710

TECHNICAL SNAPSHOT

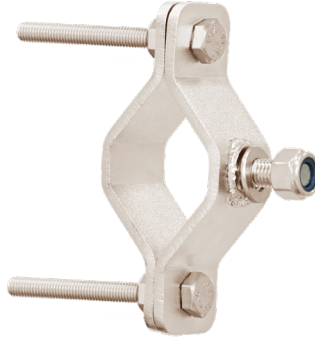
Universal Extremity Plate	AFF113710
Design	Universal Extremity for Horizontal Lifeline
Application	Anchorage point for Horizontal Lifelines with over head application. For steel structures M12x50. For concrete M12X80 (Refer Hilti HSV guide)
Material	Stainless Steel Grade 316
MBS	36 kN
Weight	0.70 kgs
Conforms to	EN 795:2012 TYPE A & TS16415:2013

Pipe Mounting Brackets

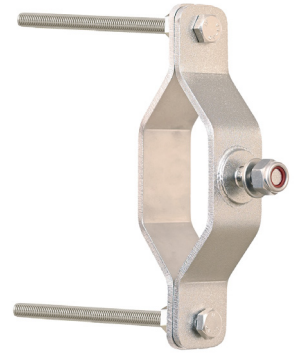
Stainless Steel Pipe brackets designed to fit a range of pipe trusses to create an anchor point at the ends of the lifeline.



AFF113735



AFF113735(M)



AFF113735(L)

TECHNICAL SNAPSHOT

Cable Termination	AFF113735	AFF113735(M)	AFF113735(L)
Material	Stainless Steel	Stainless Steel	Stainless Steel
Finish	Electropolished / E Coated.	Electropolished / E Coated.	Electropolished / E Coated.
MBS	36 kN	36 kN	36 kN
Weight	458.0 gms	620.0 gms	971.0 gms
Conforms to	EN 795:2012 Type A	EN 795:2012 TYPE A	EN 795:2012 TYPE A

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.



AFF112100



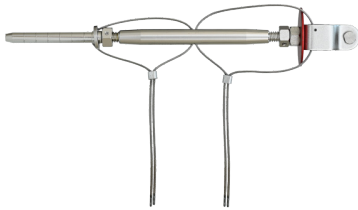
AFF114112

TECHNICAL SNAPSHOT

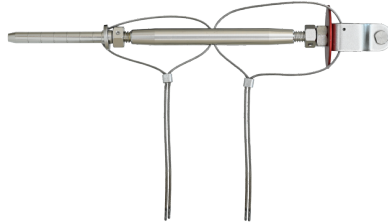
Shock Absorber	AFF112100	AFF114112
Design	Multiple Users	Multiple Users
Application	Spring type shock absorber. It reduces the impact force in the event of a fall or overloading on the system.	The shock absorber deploys at 18 kN, allowing the lifeline to be pretensioned up to 5 kN. It reduces the impact force in the event of a fall or overloading on the system.
Minimum Activation Force	MAF of energy absorber is 1 kN	MAF of energy absorber is 1 kN
Length	258mm	461mm
Material	Shock Absorber 316 Stainless Steel	Shock Absorber 316 Stainless Steel with PVC protective covering, D-Shackle 316 Stainless Steel
MBS	25 kN	40 kN
Weight	1.5 kgs	4.5 kgs
Conforms to	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Tensioner

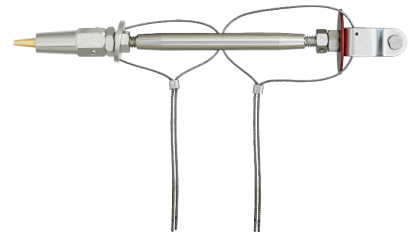
The Tensioner is attached to the shock absorber using stainless steel nut bolts and has a swageless termination at one end for the wire rope. Once the lifeline is installed, the tensioner is tightened by inserting a rod in the hole and rotating it.



Swaged Tensioner
AFF114113 (Used for
Long Span only)



Swaged Tensioner
AFF114100TF



Swageless Tensioner
AFF114100(SL)

TECHNICAL SNAPSHOT

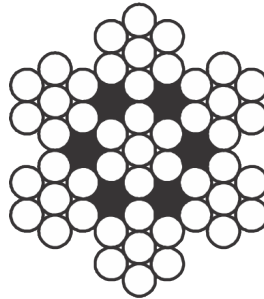
Tensioner	AFF114113 (Long Span only)	AFF114100TF	AFF114100(SL)
Design	It has one side swage and one side eye to fix in the shock absorber	It has one side swage and one side eye to fix in the shock absorber	It has one side swageless extremity and one side eye to fix in the shock absorber
Application	The tension device is an interconnection between the cable and shock absorber with cable length adjustment feature, providing up to 5 kN of pretension.	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	14mm	14mm	14mm
Material	Stainless Steel Grade 316	Stainless Steel Grade 316	Stainless Steel Grade 316
Weight	1.450 kgs	1 kgs	1 kgs
MBS	35 kN	35 kN	35 kN
Conforms to	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

Wire Rope

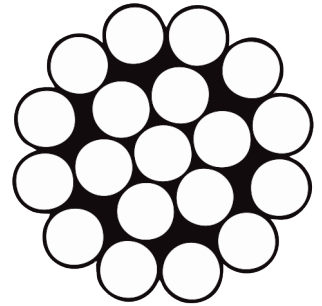
Stainless Steel Cable for Overhead & Wall Systems



Wire



7 Strands of 07 wires



1 Strands of 19 wires



8mm Wire Cable

TECHNICAL SNAPSHOT

Wire Rope	AFF5187X7XXXS	AFF518119XXXS
Design	7X7	1X19
Size	8 mm	8 mm
Material	Stainless Steel Grade 316	Stainless Steel Grade 316
MBS	39 kN	44 kN
Weight	0.30 kg per meter	0.34 kg per meter
Operating Temperature	-40°C to +60°C	-40°C to +60°C
Inspection Frequency	Annual	Annual
Conforms to	EN 12385-4 + A1:2008	EN 12385-4 + A1:2008

Traveler

The Traveler has been designed specifically for all Overhead, Wall Mount applications. Suitable to use up to 30m SRLs. Simply connect a karabiner to the Traveler when using a lanyard, rope line or a fall arrestor (SRL) 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.



**AFF119028 Traveler for
Overhead & Wall Mount
Systems Only (supplied with
Karabiner)**



**AFF110925 Traveler for
Floor Mount Systems Only
(Supplied with Karabiner)**

TECHNICAL SNAPSHOT

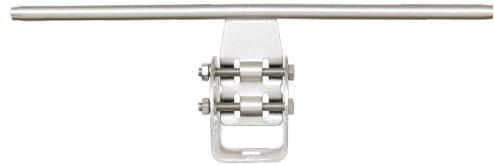
Traveler	AFF119028	AFF110925
Design	Wheel type openable traveler suitable for all overhead and ceiling mount systems only	Wheel type openable traveler suitable for all floor mount systems only
Application	The Traveler connects the user to the line with the help of lanyard / retractable block and moves smoothly without interruption along the length of the horizontal line. Suitable to attach up to 30m SRLs.	The Traveler connects the user to the line with the help of lanyard or Micron and moves smoothly without interruption along the length of the horizontal line.
Material of Construction (MOC)	Stainless Steel Grade 316 Karabiner: Karabiner: Stainless Steel Grade 316	Stainless Steel Grade 316 Karabiner: Karabiner: Stainless Steel Grade 316
Weight	1.142 kgs	0.410 kgs
MBS	25 kN	25 kN
Conforms to	EN 795:2012 Type C	EN 795:2012 Type C

Intermediates for Overhead Systems

The Intermediate brackets are used to divide a long line into multiple span, this reduces the sag on the line. The distance between two intermediate brackets may be between 5 meters and 15 meters depending on the receiving structure. For the long span systems, the maximum distance between two intermediates is 35 meters.



AFF111510(OH)



AFF111510(CB)

TECHNICAL SNAPSHOT

Intermediate	AFF111510(OH)	AFF111510(CB)
Material	Stainless Steel Grade 316	Stainless Steel Grade 316
MBS	15 kN	15 kN
Weight	0.581 kgs	0.686 kgs
Conforms to	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013

OPTIONAL

Intermediate Spacer



AFF111510(S)

Corner Bracket For Overhead or Wall mount

The overhead Corner has been designed to be fixed on concrete floors or ceilings in conjunction with a horizontal lifeline (AFF4000).

Available in different variants depending upon the angle:



AFA935205
Internal Wall Mounted



AFA935206
External Wall Mounted



AFA935207(OH)
Corner Bracket

TECHNICAL SNAPSHOT

Wire Rope	AFA935205	AFA935206	AFA935207(OH)
Design	Corner piece is designed to be installed when a bend or corner is required within the horizontal lifeline		
Application	Corner piece can be fixed on concrete floors or ceilings, metal beams directly or mounted to a post		
Material	Stainless Steel Grade 316	Stainless Steel Grade 316	Stainless Steel Grade 316
MBS	15 kN	15 kN	15 kN
Weight	1.26 kgs	0.79 kgs	0.859 kgs
Conforms to	EN 795:2012 TYPE C & TS16415:2013		

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 130 kN 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 kgs	0.5 kgs
MBS	25 kN	25 kN
Conforms to	EN 795:2012 TYPE C & TS16415:2013	EN 795:2012 TYPE C & TS16415:2013


Inspection Plate: AFF115101H

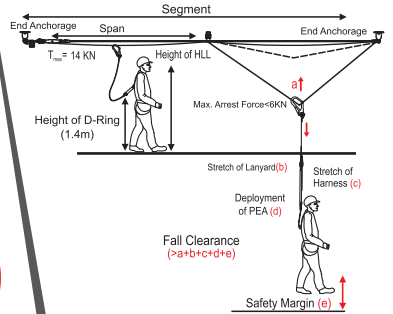
The Inspection Plate is installed on the tensioner side of the system for identification, traceability and maintenance of inspection records. At time of installation, the relevant details are recorded on the ID tag. The next inspection dates are also recorded on the month and year on the back of the ID plate. The label is provided with a protective Aluminium 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




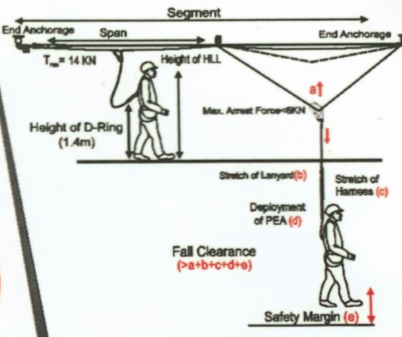


 		
KStrong Horizontal Lifelines		
AFF4000	Roof Mount - EN 795:2012 TYPE C and CEN/TS 16415:2013	
AFF4000	Wall, Floor and Ceiling Mount - EN795:2012 TYPE D	
Date of Installation	 	
No. of users		
UID		K4000332
Line No.		
customercare@kstrong.com www.kstrong.com/asia		



Engineering Calculation
Predict forces
extremity / deflection in cable





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 Aluminium 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).

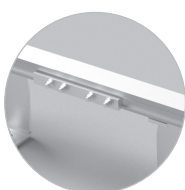
The specially fixed junctions between different lengths of the rail allow an extremely smooth movement of the Trolley.

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

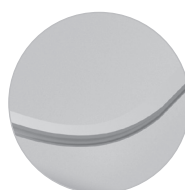
AFF5000 (Floor Mounted)



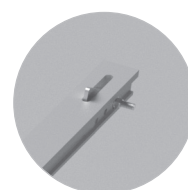
Aluminium Rail Extremity
AFF531101



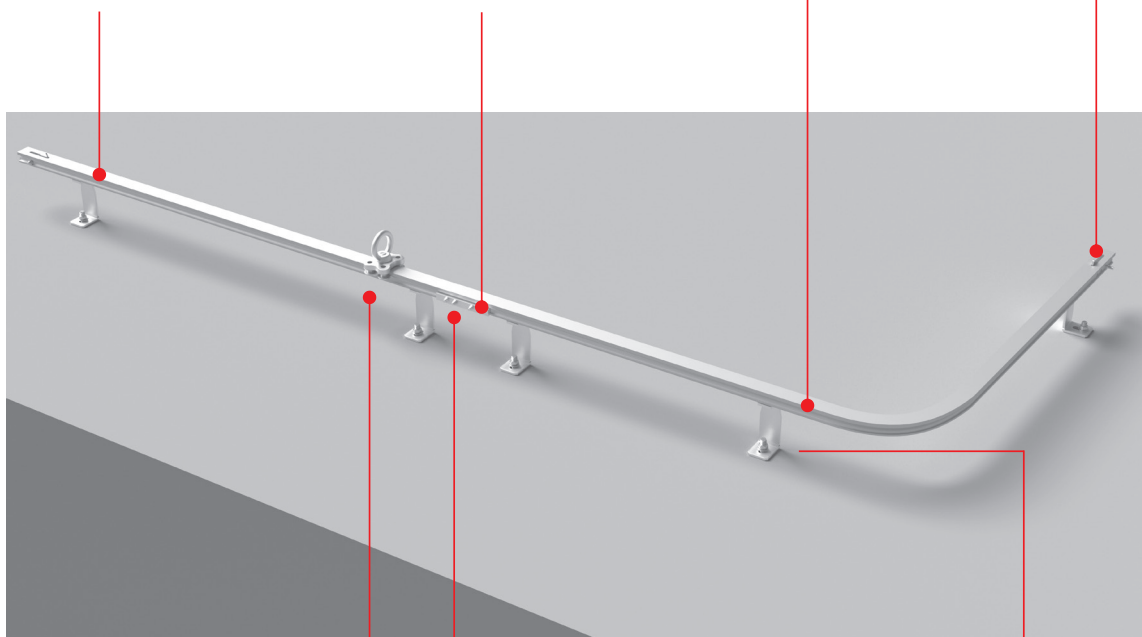
Junction
AFF533500



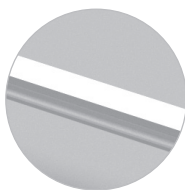
Corner
AFF531030



Locking
JIB



Trolley for Ceiling/Floor
AFF139020

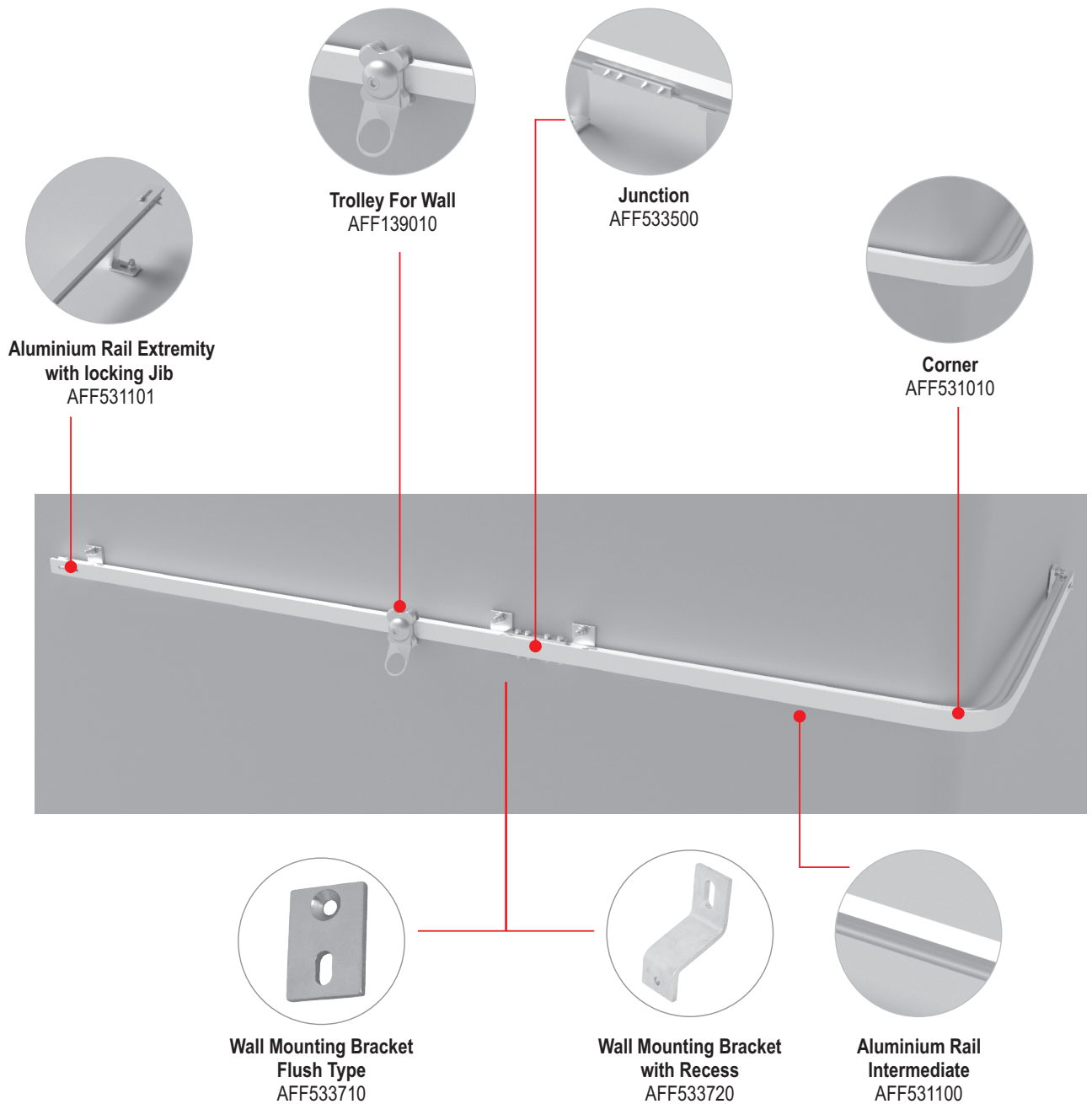


Aluminium Rail Intermediate
AFF531100

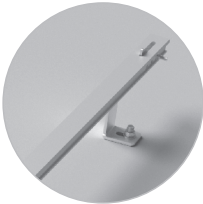


Ceiling Mounting Bracket
AFF533700

AFF5000 (Wall Mounted)



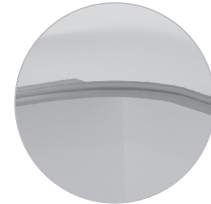
AFF5000 (Ceiling Mounted)



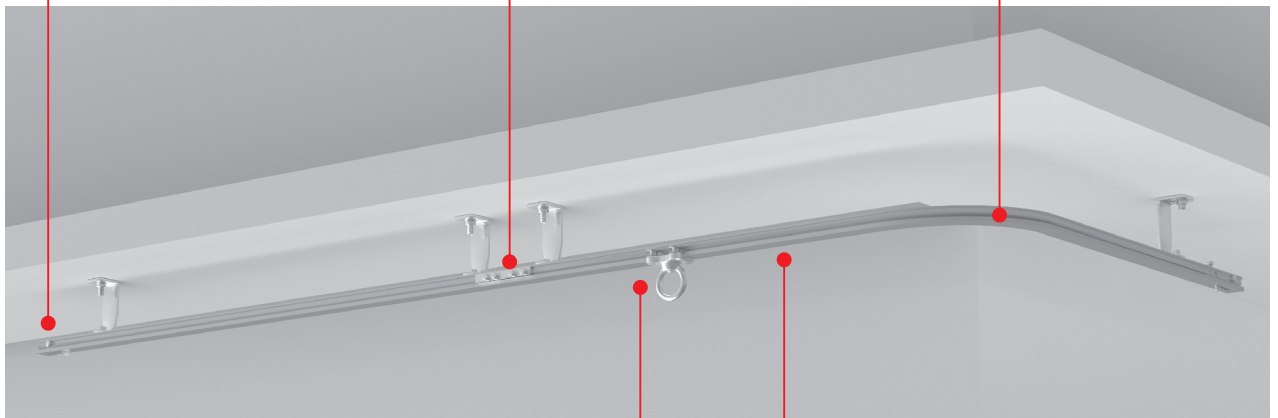
**Aluminium Rail Extremity
with locking Jib**
AFF531101



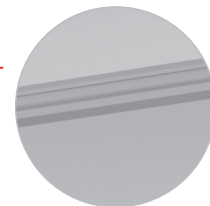
Junction
AFF533500



Corner
AFF531010



Trolley for Ceiling/Floor
AFF139020

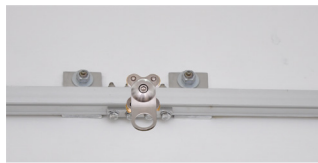


**Aluminium Rail
Intermediate**
AFF531100

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



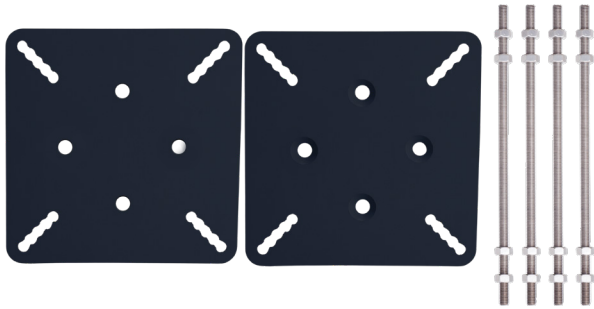
(Ceiling/ Floors)
AFF531030
Material: Extruded
Aluminium T6 Alloy

TECHNICAL SNAPSHOT

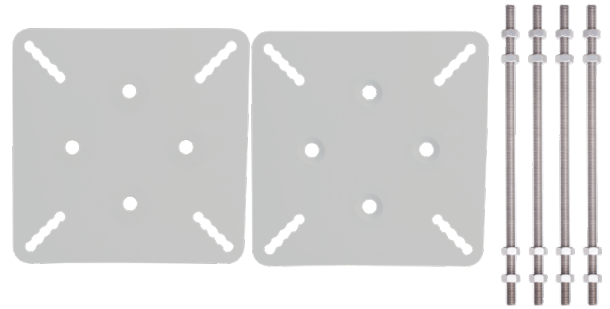
Product Name	Product Code	Features
Aluminium Rail Extremity	AFF531700	Material: Extruded Aluminium T6 Alloy Length: 3 meter
Wall Mounting Bracket with Recess	AFF533720	Material: Stainless Steel 316 (for Wall Mounting with Recess)
Alu. Rail Intermediate	AFF531000	Material: Extruded Aluminium T6 Alloy 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 Post Beam Mounting Brackets

Extremity Bracket AFA9355801

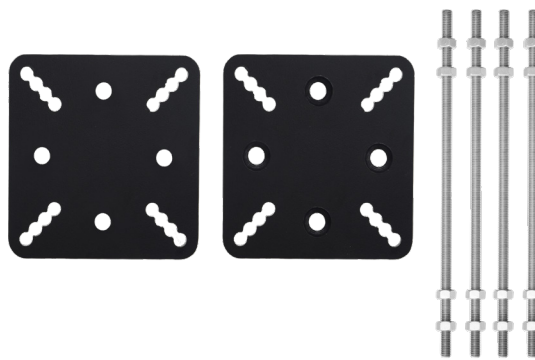


AFA935801



AFA935801(SS)

AFA935801 suit Beam flange width: 150.0 mm - 220.0 mm
 AFA935801(SS) suit Beam flange width: 150.0 mm - 220.0 mm
 AFA935801(SM) suit Beam flange width: 90.0 mm - 150.0 mm
 AFA935801(M) suit Beam flange width: 230.0 mm - 320.0 mm



AFA935801(L),(XL)

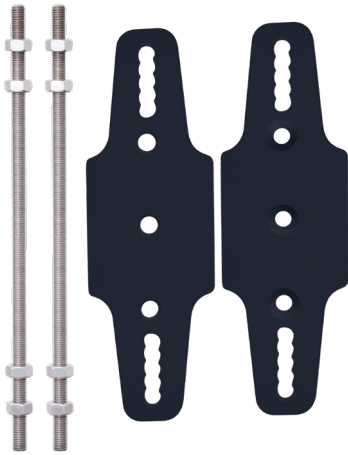
AFA935801(L) suit beam flange width: 300 mm - 370 mm
 AFA935801(XL) suit beam flange width: 370 mm - 450 mm

TECHNICAL SNAPSHOT

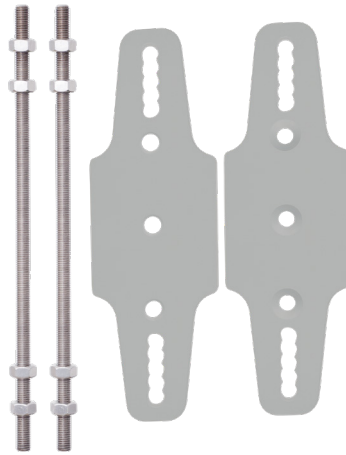
Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935801	Alloy Steel	ED Coated Black	12.45 kgs	23 kN	NA
AFA935801(SS)	Stainless Steel	ED Coated Grey	10.18 kgs	23 kN	NA
AFA935801(SM)	Alloy Steel	ED Coated Black	7.45 kgs	23 kN	NA
AFA935801(M)	Alloy Steel	ED Coated Black	22.30 kgs	23 kN	NA
AFA935801(L)	Alloy Steel	ED Coated Grey	28.58 kgs	23 kN	NA
AFA935801(XL)	Alloy Steel	ED Coated Grey	43.40 kgs	23 kN	NA

FIXED ANCHOR POSTS

Intermediate Bracket AFA935851



AFA935851



AFA935851(SS)



AFA935851(SM)

AFA935851 suit Beam Flange width: 150.0 mm - 220.0 mm

AFA935851(SS) suit Beam Flange width: 150.0 mm - 220.0 mm

AFA935851(SM) suit Beam Flange width: 90.0 mm - 150 mm



AFA935851(M),(L)

AFA935851(M) suit Beam Flange width: 230.0 mm - 320.0 mm

AFA935851(L) suit Beam Flange width: 300.0 mm - 370.0 mm



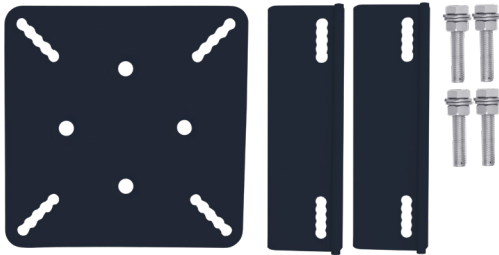
TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935851	Alloy Steel	ED Coated Black	3.87 kgs	23 kN	NA
AFA935851(SS)	SS Grade 316	ED Coated Grey	3.19 kgs	23 kN	NA
AFA935851(SM)	High Tensile Steel	ED Coated Black	2.63 kgs	23 kN	NA
AFA935851(M)	Alloy Steel	ED Coated Grey	5.07 kgs	23 kN	NA
AFA935851(L)	Alloy Steel	ED Coated Grey	6.83 kgs	23 kN	NA

FIXED ANCHOR POSTS

Flange Bracket AFA935811

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 universal extremity plate AFF113710, point anchor and intermediate AFF111510.



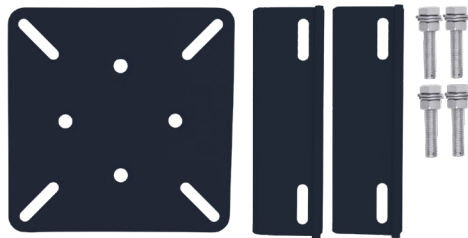
AFA935811



AFA935811(SS)

AFA935811 suit Beam Flange width: 150.0 mm - 220.0 mm

AFA935811(SS) suit Beam Flange width: 150.0 mm - 220.0 mm



AFA935811(M),(L)

AFA935811(M) suit Beam Flange width: 230.0 mm - 320.0 mm

AFA935811(L) suit Beam Flange width: 300.0 mm - 370.0 mm



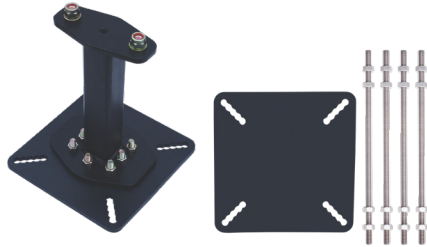
TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935811	Alloy Steel	ED Coated Black	10.52 kgs	15 kN	NA
AFA935811(SS)	SS Grade 316	ED Coated Grey	8.60 kgs	15 kN	NA
AFA935811(SM)	Alloy Steel	ED Coated Black	7.76 kgs	23 kN	NA
AFA935811(M)	Alloy Steel	ED Coated Black	14.54 kgs	23 kN	NA
AFA935811(L)	Alloy Steel	ED Coated Black	18.48 kgs	23 kN	NA

FIXED ANCHOR POSTS

Anchor Post AFA935821 & AFA935831

Has been designed to be fixed onto metal beams to install a Horizontal Lifeline. The base have slots to fit on variable size of structural beams compatible with Universal Extremity Plate. Ref: AFF113710 Extremity & AFF111510 Intermediate.



AFA935821



AFA935821(SS)



AFA935831



AFA935831(SS)

AFA935831(M) suit Beam Flange width: 230.0 mm - 320.0 mm

AFA935831(L) suit Beam Flange width: 300.0 mm - 370.0 mm

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935821(300), (500),(750)	Alloy Steel	ED Coated Black	18.30 kgs, 20.07 kgs, 22.15 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935821(SS)(300), (500),(750)	SS Grade 316	ED Coated Grey (Base Plate)	8.64 kgs, 9.46 kgs, 10.64 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935821(M)(300), (500),(750)	Alloy Steel	ED Coated Grey (Base Plate)	8.64 kgs, 9.46 kgs, 10.64 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935821(L)(300), (500),(750)	Alloy Steel	ED Coated Grey (Base Plate)	8.64 kgs, 9.46 kgs, 10.64 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935831(300), (500), (750)	Alloy Steel	ED Coated Black	16.58 kgs, 18.92 kgs, 21.85 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935831(SS)(300), (500),(750)	SS Grade 316	ED Coated Grey (Base Plate)	12.15 kgs, 12.97 kgs, 15.15 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013

FIXED ANCHOR POSTS

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935831(M)(300)	Alloy Steel	ED Coated Black	16.58 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935831(M)(500)	Alloy Steel	ED Coated Black	18.92 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935831(M)(750)	Alloy Steel	ED Coated Black	21.85 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935831(L)(300)	Alloy Steel	ED Coated Grey (Base Plate)	12.15 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935831(L)(500)	Alloy Steel	ED Coated Grey (Base Plate)	12.97 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935831(L)(750)	Alloy Steel	ED Coated Grey (Base Plate)	15.15 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013

Anchor Post AFA935841 & AFA935871



AFA935841



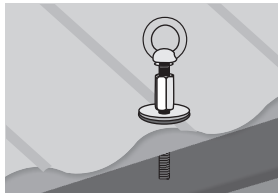
AFA935871(L)

Minimum Flange Width Compatibility : 300.0 mm
Maximum Flange Width Compatibility : 370.0 mm

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935841(300)	Alloy Steel	ED Coated Black	10.38 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935841(500)	Alloy Steel	ED Coated Black	12.80 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013
AFA935871(L)	Alloy Steel	ED Coated Black	52.30 kgs	15 kN	EN 795:2012 TYPE A & TS16415:2013

Purlin Post / Anchors



Roof Bolt Anchor
AFA935501

FEATURES

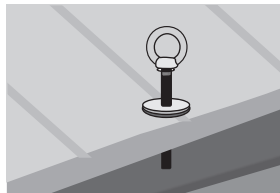
Bolt anchor design to be fixed on purlins of various roof profile to create permanent anchor.
Rubber washer for proper installation and making roof leak-proof.
Ideal for use as an anchorage point for fall protection
Recommended Drill Hole in Purlin is 30 mm



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 30 mm



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 30 mm



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 30 mm

TECHNICAL SNAPSHOT

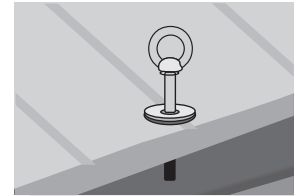
Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935501	Stainless Steel	Polished	0.27 kgs \pm 0.01 kgs	15 kN	EN 795:2012 TYPE A
AFA935502	Stainless Steel	Polished	0.84 kgs \pm 0.01 kgs	15 kN	EN 795:2012 TYPE A
AFA935503	Stainless Steel	Polished	0.76 kgs. \pm 0.01 kgs	15 kN	EN 795:2012 TYPE A
AFA935504	Stainless Steel	Polished	0.76 kgs \pm 0.01 kgs	15 kN	EN 795:2012 TYPE A



Bolt Anchor Big for Corrugated Roof Profile
AFA935505

FEATURES

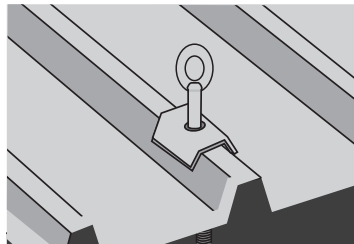
Bolt anchor design to be fixed on purlins of corrugated roof profile to create permanent anchor.
Rubber washer for proper installation and making roof leak-proof.
Ideal for use as an anchorage point for fall protection
Recommended Drill Hole in Purlin is 30 mm



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 30 mm



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 30 mm

TECHNICAL SNAPSHOT

Ref. No	Material	Finish	Weight	MBS	Conforms to
AFA935505	Stainless Steel	Polished	1.3 kgs \pm 0.01 kgs	15 kN	EN 795:2012 TYPE A
AFA935506	Stainless Steel	Polished	1.30 kgs \pm 0.01 kgs	15 kN	EN 795:2012 TYPE A
AFA935507	Stainless Steel	Polished	1.31 kgs \pm 0.01 kgs	15 kN	EN 795:2012 Type A



VERTICAL

ENGINEERED SYSTEMS

- Vertical Fixed Cable & Aluminium 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 system is made of Aluminium 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 have 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 Safety Lifeline System Kit In Bucket

AFF6000KIT(10) 10M



FEATURES

- The KStrong Vertical Ladder Lifeline 10 m Kit provides a safe solution when climbing fixed ladders
- The rope grab allows the user to safely climb up or down the ladder providing safety without the need to disconnect
- In an event of a fall, the 'Rope grab' locks onto the wire cable arresting the fall of the user
- Suitable for a variety of fixed vertical ladders with round, square, rectangle, or angle ladder rungs between 16.0mm to 65.0mm
- These vertical ladder lifeline kits can be supplied in different lengths to accommodate a range of ladder heights
- Simple and easy to install using a bolt on clamping system
- Supplied with 11.5 m of wire rope to suit a AFF516000 ladder extension. "Sold Separately"

TECHNICAL SNAPSHOT

AFF6000KIT(10)	Material	Wire	Weight	MBS	Conforms to
Components	316 Stainless Steel & Polyester Webbing	8mm 7x19	10.75 kgs + 0.10 kgs	23 kN	EN 353-1:2014+1:2017

AFF7000 Fall Arrest System Components

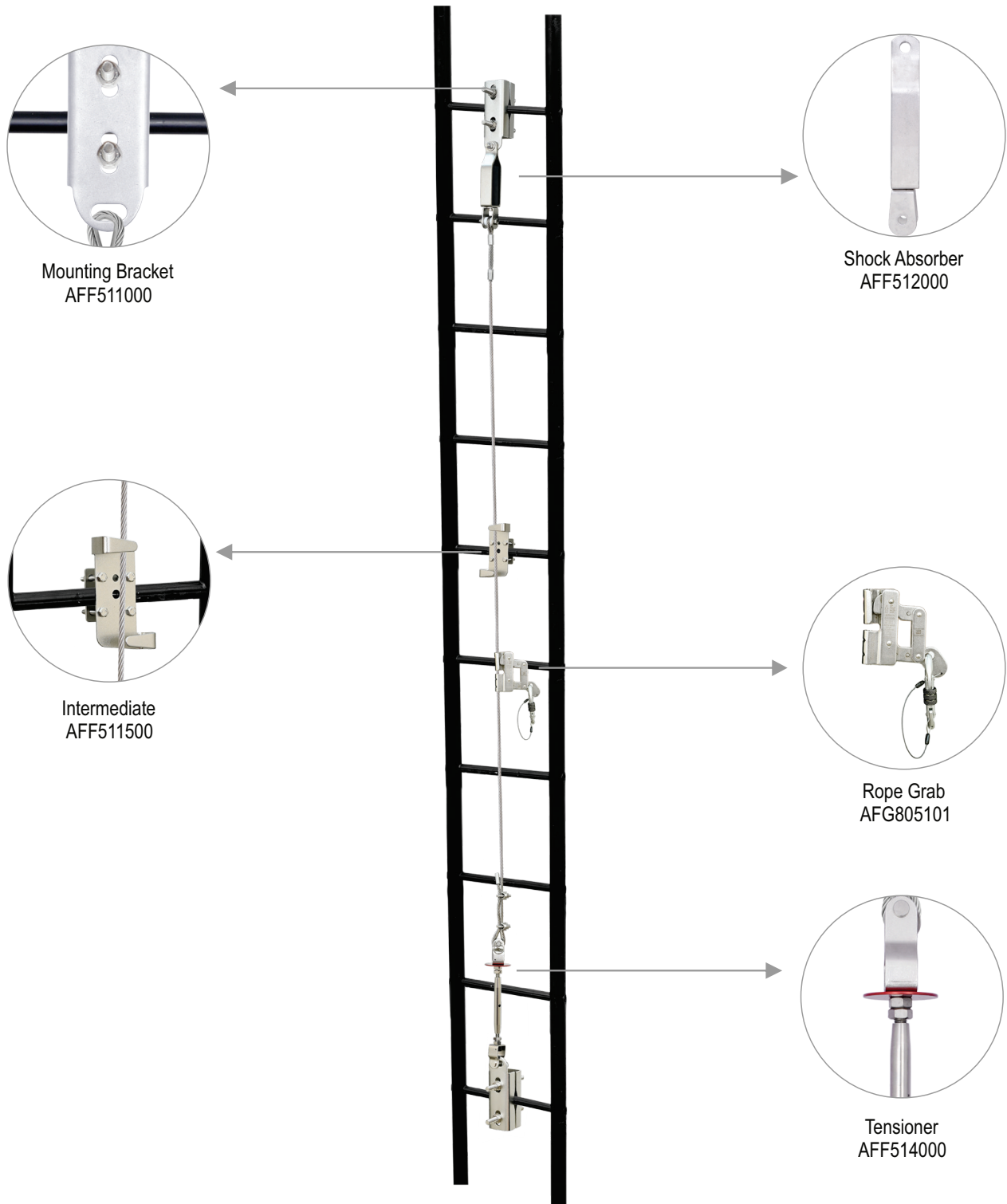
AFF7000

EN 353-1:2014+A1:2017

Certified to EN 353-1:2014+A1:2017 the AFF7000 Fall Arrest system is an integrated solution to arrest the fall of a user when climbing up and down a ladder. The unique feature of this Stainless Steel Shock Absorber at the top of the line which offers a distinct advantage over the textile absorber used in other lines in term of UV degradation and resistance to harsh climate conditions.

The Vertical Line is made of Stainless Steel Wire Rope and is maintained in the rigid position by the use of 2 mounting brackets.

The Stainless Steel Rope Grab is directly connected to the Harness of the user without any additional lanyard.



Component Chart

The chart below shows all the components of the Vertical Lifeline Systems with their appropriate product codes and quantity required in a system.

TECHNICAL SNAPSHOT

Component	Code	Qty. Required
Mounting Brackets		
Mounting Bracket	AFF511000	2 sets
Mounting Bracket (Double Rung)	AFF513700	2 sets
Point Anchor(eye)	AFA9351AE	2 sets
Shock Absorber		
Shock Absorber	AFF512000	1 no.
Cable Termination		
Cable Extremity	AFF12001	1 no.
Set of U Bolt & Thimbles	AFF513000	1 set.
Wire End Cap	AFF513100	1 No. (optional)
Wire Rope		
Wire Rope (7X19)	AFF518XXX(S)	Length of system
Wire Rope (7X19) loop with thimbles and ferrule at one end	AFF518XXXSL	Length of system
Wire Rope (7X19) Swage and D Shackle	AF518XXX(DS)	Length of system
Rope Grab		
Rope Grab	AFG805101	As per number of users
Rope Grab c/w Textile Shock Absorber	AFG805102	As per number of users
Intermediate		
Intermediate	AFF511500	Space every 10 m up to 30 m, 30 m and above, space every 5m
Intermediate Pulley Type	AFF512002	Space every 10m

Tensioner

Tensioner (Both Side Eye)	AFF514000	1 no.
Tension (Swageless)	AFF114100(SL)	1 no.
Tension (Swaging)	AFF114100	1 no.

Extension Arm

Arm Extension Stainless Steel	AFF516600(SS)	1 no. (as required)
Arm Extension Alloy Steel	AFF516600	1 no. (as required)

Accessory

ID Tag	AFF115100V	1 no. (as required)
End Cap	AFF513100	1 no. (as required)

Recommended PPE

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



Energy Absorbing
Twin Webbing
Lanyard
AFL408612



Work Positioning
Lanyard with Grip
Adjuster
AFL405351(PR)



Rope Line with
Shock Absorber
AFA951201



2m Twin Micron SRL
AFS550102D



Full Body Roofers
Harness
AFH300203

AFF7500 Fall Arrest System Components

AFF7500

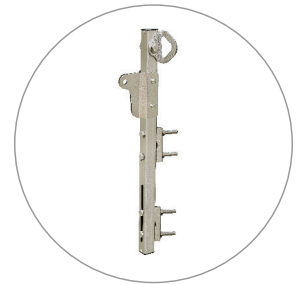
EN 353-1:2014+A1:2017

Certified EN 353-1:2014+A1:2017, the AFF7500 Fall Arrest System is an integrated solution to arrest the fall of a user when climbing up and down a ladder. The Vertical Lifeline 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.

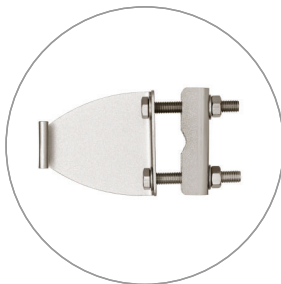
A Stainless Steel Rope Grab moves up and down on the anchorage line accompanying the user who is connected to it with the help of a small shock absorbing Lanyard.



K-Lock Slotted Swagless Termination AFF111505



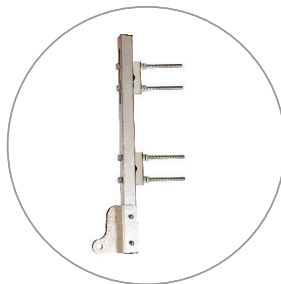
Top Extremity Mounting Bracket c/w
15 kN Anchor Point
AFF513756



Intermediate
AFF513804



Rope Grab c/w built-in
Shock Absorber
AFG805103

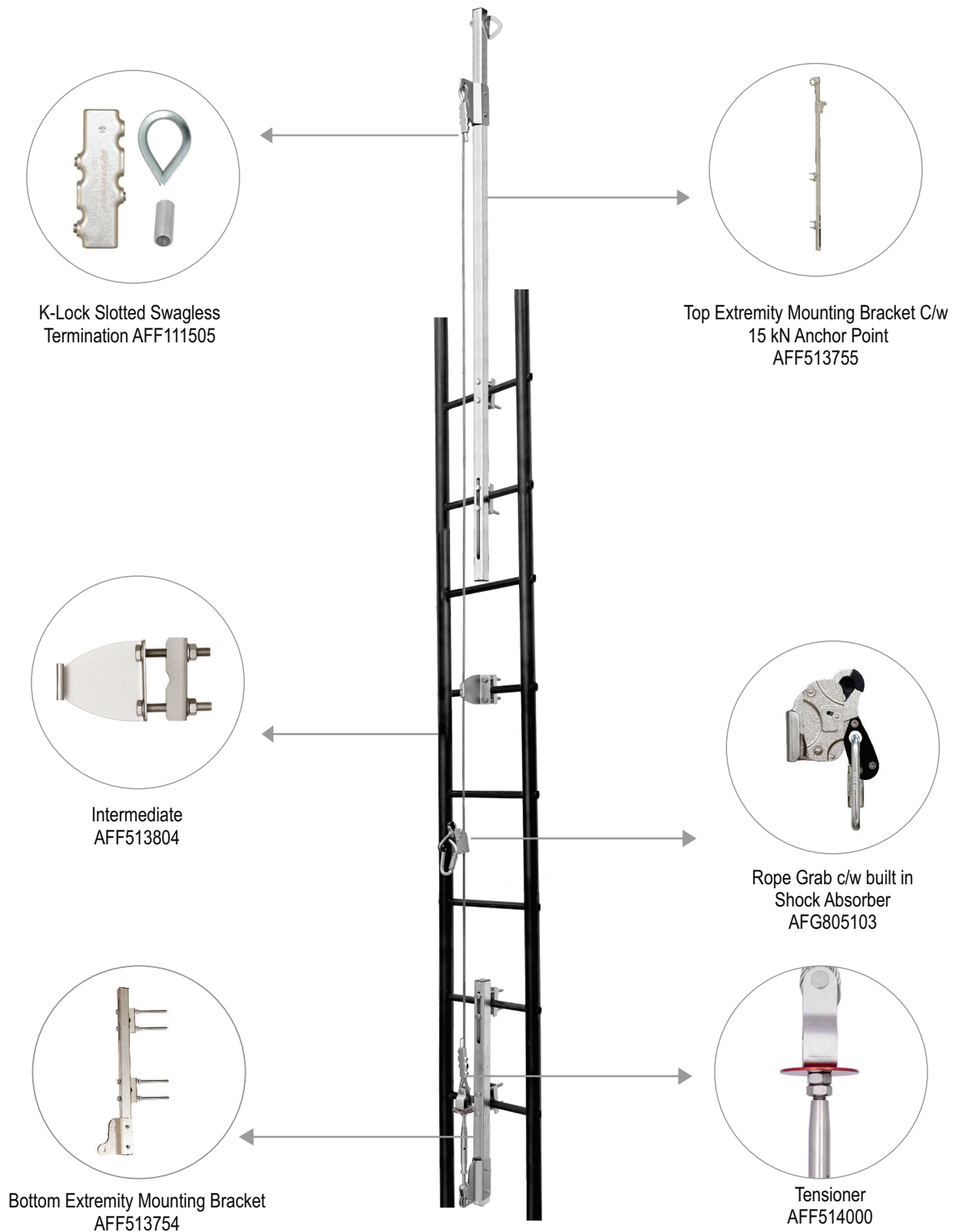


Bottom Extremity Mounting Bracket
AFF513754



Tensioner
AFF514000

AFF7500 Fall Arrest System with 1.8m Extension Arm Components



Component Chart

The chart below shows all the components of the Vertical Lifeline Systems with their appropriate product codes and quantity required in a system.

TECHNICAL SNAPSHOT

Component	Code	Qty. Required
Extremity Mounting Brackets, Stainless Steel		
Top Extremity Mounting Bracket c/w 15 kN Anchor point, Stainless Steel	AFF513756	1 no.
Extension Mounting Bracket 1.8m c/w Anchor point (Optional), Stainless Steel	AFF513755	Optional
Bottom & Top Extremity Mounting Bracket, Stainless Steel	AFF513754	1 no.
Cable Termination		
K-Lock Slotted Swagless Termination c/w Thimble & End Cap	AFF111505	2 sets top & bottom
Wire Rope		
Wire Rope (7x19)	AFF518XXX(S)	Length of the system
Rope Grab		
Rope Grab	AFG805103	As per number of users
Intermediate		
Intermediate	AFF513804	Space every 10m up to 30m, 30m and above, space every 5m
Optional Intermediates		
Intermediate Retrofit	AFF513804	Space every 10m up to 30m, 30m and above, space every 5m
Intermediate Retrofit C/w Rubber Guide	AFF513806	Space every 10m up to 30m, 30m and above, space every 5m
Intermediate Pulley Type	AFF512002	Space every 10m
Tensioner		
Tensioner c/w TFI	AFF514000	1 no.

Extremity Posts & 1.8m Extension Arms

Extension Arm Mounting Bracket 1.8m c/w 15 kN Anchor Point, Stainless Steel & ED Coated Steel AFF513755 & AFF513755(EC)

Top Extremity Mounting Bracket c/w 15 kN Anchor point, Stainless Steel & ED Coated Steel AFF513756 & AFF513756(EC)

Bottom & Top Extremity Mounting Bracket, Stainless Steel & ED Coated Steel AFF513754 & AFF513754(EC)

Accessory

ID Tag AFF114100 1 no. (as required)

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 SRLs in conjunction with a full body harness.



Energy Absorbing
Twin Webbing
Lanyard
AFL408612



Work Positioning
Lanyard with Grip
Adjuster
AFL405351(PR)



Rope Line with
Shock Absorber
AFA951201



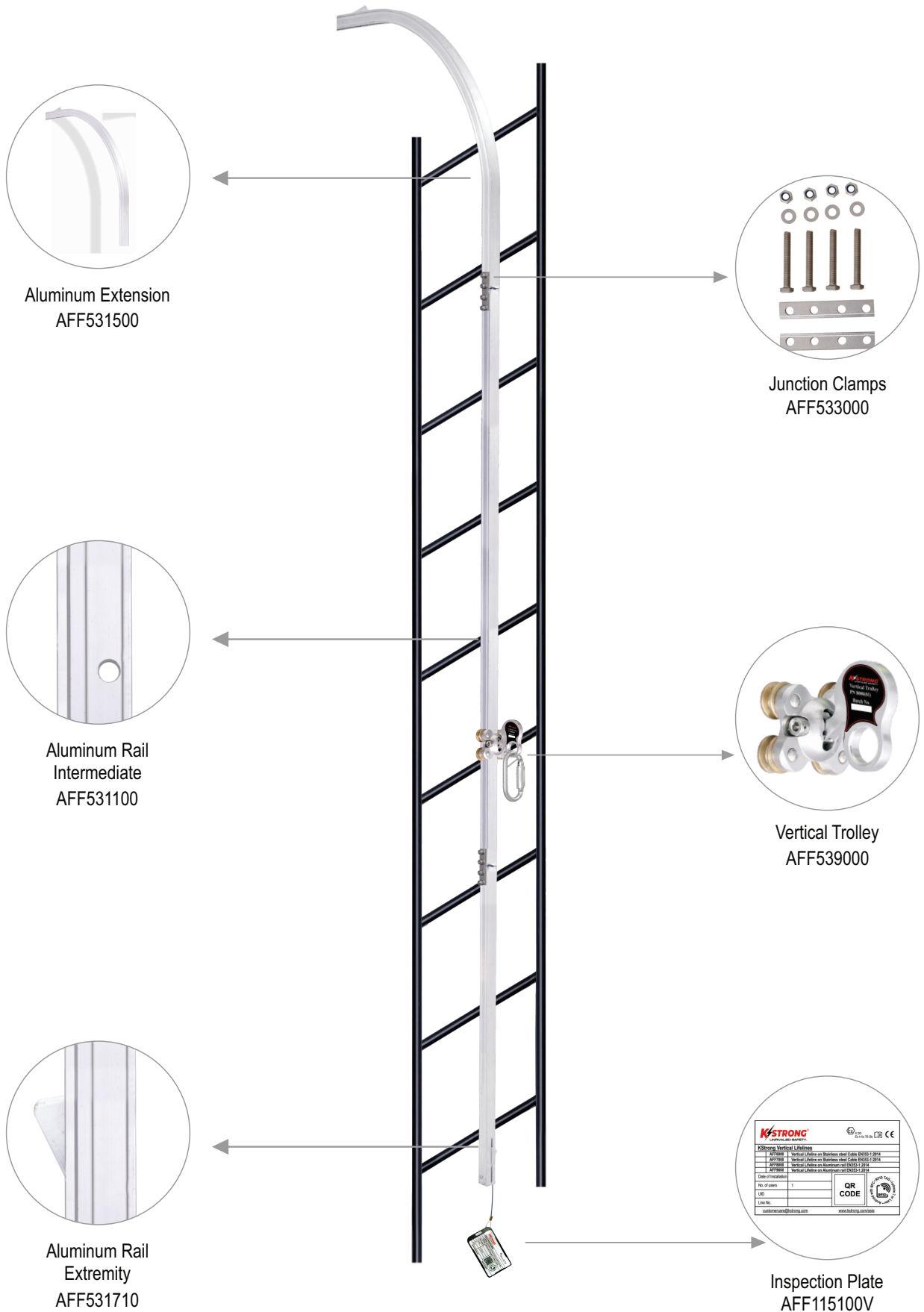
2m Twin Micron SRL
AFS550102D



Full Body Roofers
Harness
AFH300203

Vertical Anchorage Line System on Rigid Aluminium Rail

AFF8000



Component Chart

The chart below shows all the components and certification of the AFF8000 Rail System with their appropriate reference nos. and quantity required in a system.

TECHNICAL SNAPSHOT

Component	Code	Qty. Required
Aluminium Extension Arm	AFF531500	1 no.
Aluminium Rail Intermediate	AFF531100	As per the length required (in multiples of 3 meters)
Vertical Trolley	AFF539000	1 per user
Karabiner	AFC601100	1 per vertical trolley
Rung Clamp	AFF533500	1 per meter
Junction Clamp	AFF533000	One less than total no. of rail sections length of rail Intermediate
Aluminium Rail Extremity	AFF531710	1 no.
Inspection Plate	AFF115100V	1 no.
Certified to	EN 353-1:2014+A1:2017 & ATEX directive 2014/34/UE	

Vertical Anchorage Line System on Rigid Aluminium Rail

AFF9000

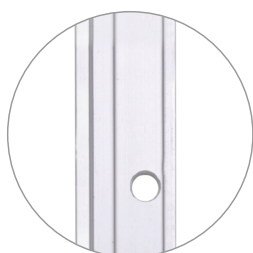
EN 353-1:2014+A1:2017



Aluminum Extension
AFF531500



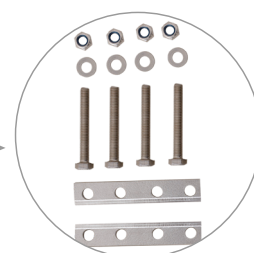
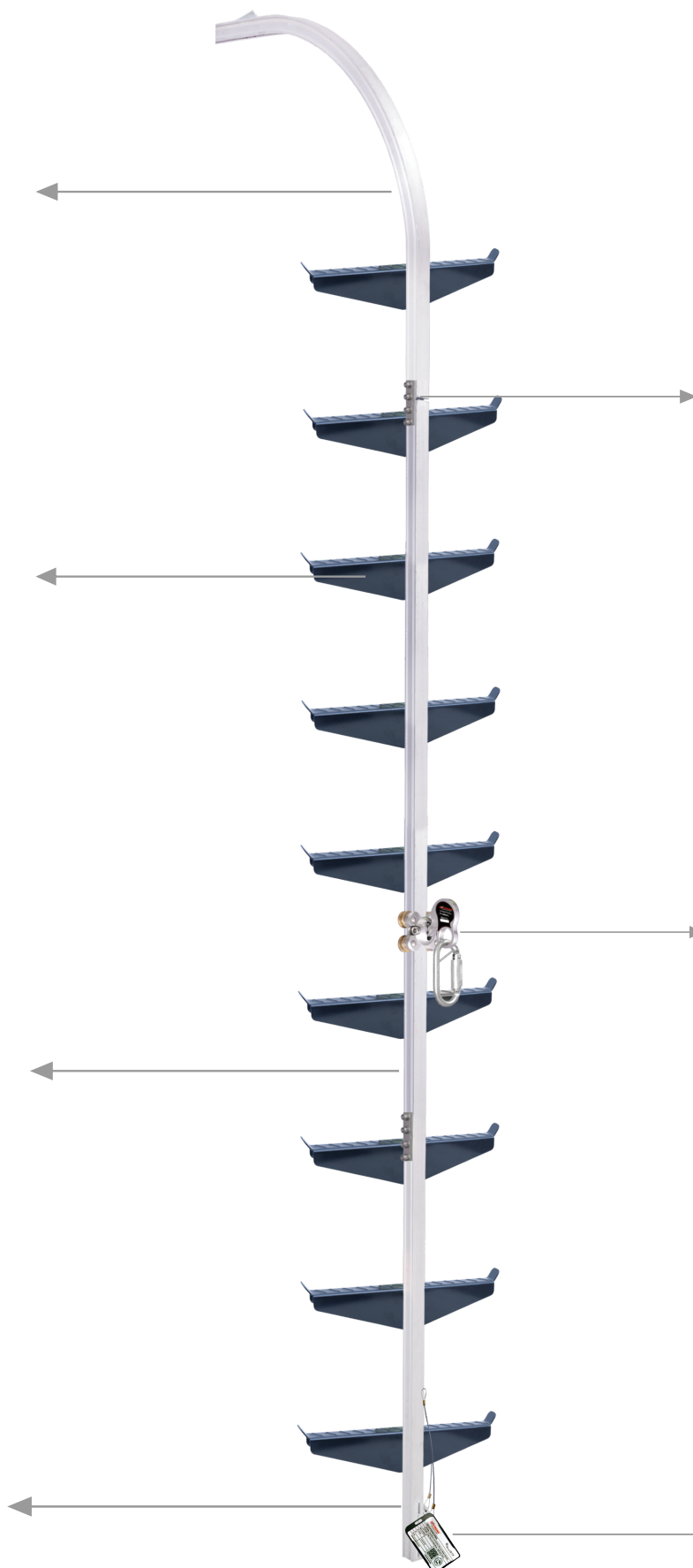
Ladder Rung
Assembly
AFF532000



Aluminum Rail
Intermediate
AFF531100



Aluminum Rail
Extremity
AFF531710



Junction Clamps
AFF533000



Vertical Trolley
AFF539000



Inspection Plate
AFF115100V

Component Chart

The chart below shows all the components and certification of the AFF9000 Aluminium Rail System with their appropriate reference nos. and quantity required in a system.

TECHNICAL SNAPSHOT

Component	Code	Qty. Required
Aluminium Extension Arm	AFF531500	1 no.
Aluminium Rail Intermediate	AFF531100	As per the length required (in multiples of 3 meters)
Vertical Trolley	AFF539000	1 per user
Karabiner	AFC601100	1 per vertical trolley
Ceiling Mounting Bracket	AFF533700	1 per meter
Mounting Post	AFF533801	1 no.
Junction Clamp	AFF533000	One less than total number of alurail sections
Alu. Rail Extremity	AFF531710	1 no.
Ladder Rung Assembly	AFF532000	11 nos. per rail
Ladder Rung Assembly Right	AFF532200	11 nos. per rail
Ladder Rung Assembly Left	AFF532100	11 nos. per rail
Collapsible Ladder Assembly		11 nos. per rail
Inspection Plate	AFF115100V	1 no.
Certified to	EN 353-1:2014+A1:2017 & ATEX directive 2014/34/UE	

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 SRLs in conjunction with a full body harness.



Energy Absorbing
Twin Webbing
Lanyard
AFL408612



Work Positioning
Lanyard with Grip
Adjuster
AFL405351(PR)



Rope Line with
Shock Absorber
AFA951201



2m Twin Micron SRL
AFS550102D



Full Body Roofers
Harness
AFH300203

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.

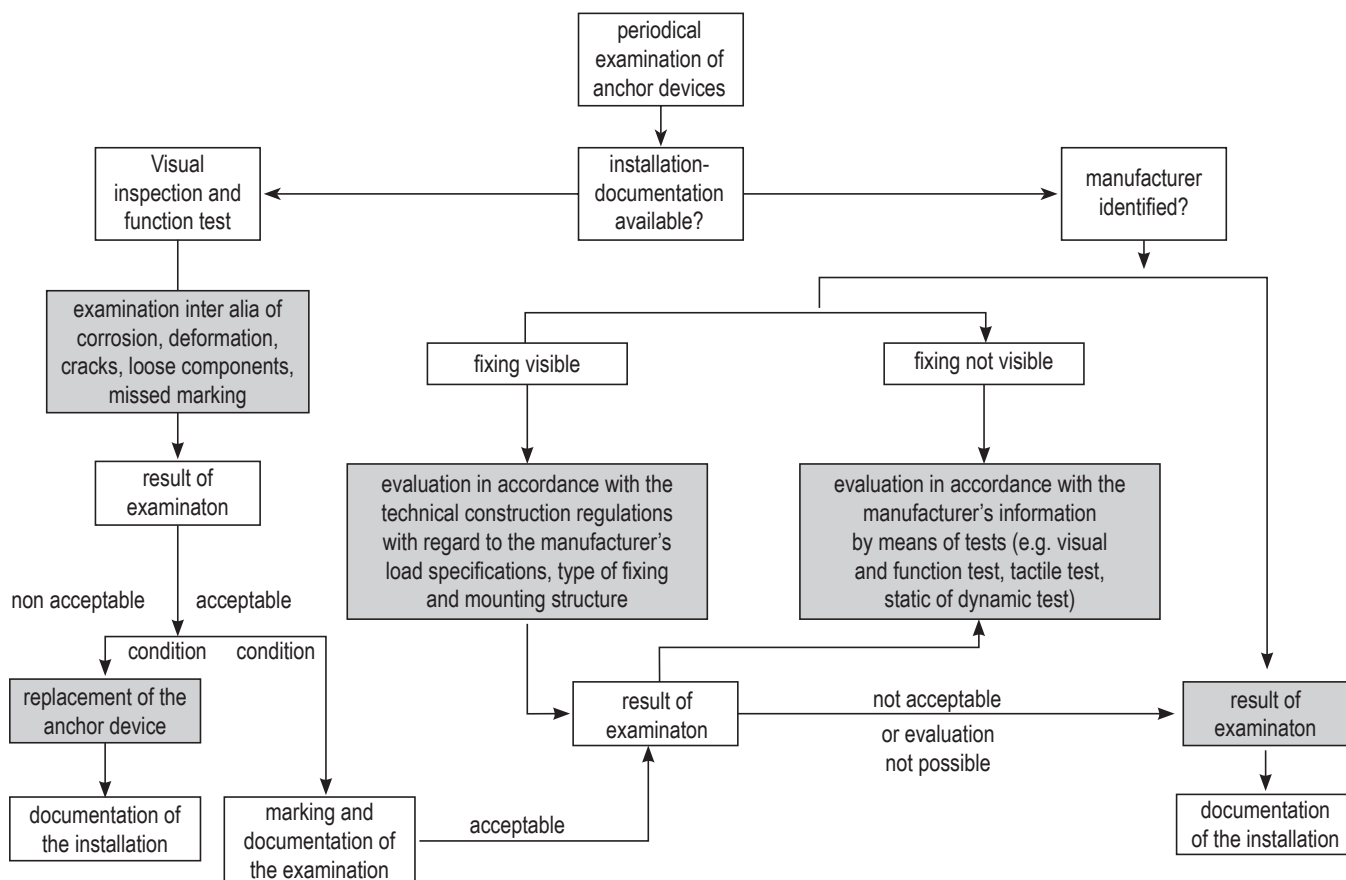
It is also extremely important for the Client to be confident of the system installed. Team KStrong uses specialized Onsite Testing and Proof-loading Equipment from HydraJaws UK, to provide this specialized service.

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 customer care@KStrong.in

Ref. No.	Product Name	Page No.	Ref. No.	Product Name	Page No.
AFA935156	Extremity Post	14	AFA935430	Corner Post	13
AFA935156BS	Extremity Post for Broad Standing Seam Roof	30	AFA935430(CB)	Variable Corner Bend Post for Trapezoidal Roof	28
AFA935157	Intermediate Post	14	AFA935501	Roof Bolt Anchor	63
AFA935157BS	Intermediate Post for Broad Standing Seam Roof	30	AFA935502	Bolt Anchor Small for Corrugated Roof Profile	63
AFA935168	Extremity Post	15	AFA935503	Bolt Anchor Small for Flat Pan Roof Profile	63
AFA935169	Intermediate Post	15	AFA935504	Bolt Anchor Small for Trapezoidal Roof Profile	63
AFA935171	Corner Post	14	AFA935505	Bolt Anchor Big for Corrugated Roof Profile	64
AFA935171(CB)	Variable Corner Bend Post For Standing Seam Roof	29	AFA935506	Bolt Anchor Big for Flat Pan Roof Profile	64
AFA935171BS	Corner Post For Broad Standing Seam Roof	30	AFA935507	Bolt Anchor Big for Trapezoidal Roof Profile	64
AFA935171BS(CB)	Variable Corner Bend Post for Broad Standing Seam Roof	30	AFA935801	Fixed Post Beam Mounting Bracket	58
AFA935185	Corner Post	15	AFA935801(L)	Extremity Bracket (Large)	58
AFA935185(CB)	Variable Corner Bend Post For Kliplok Roof	31	AFA935801(SS)	Extremity Bracket (Stainless Steel)	58
AFA935204	Corner Bracket	16	AFA935801(XL)	Extremity Bracket (Extra Large)	58
AFA935205	Internal Wall Mounted	51	AFA935811	Flange Bracket	60
AFA935206	External Wall Mounted	51	AFA935811(L)	Flange Bracket (Large)	60
AFA935207(OH)	Corner Bracket	51	AFA935811(M)	Flange Bracket (Medium)	60
AFA935290	Extremity Post for Membrane Roof	32	AFA935811(SS)	Flange Bracket (Stainless Steel)	60
AFA935291	Intermediate Post for Membrane Roof	32	AFA935821	Anchor Post	61
AFA935292	Corner Post for Membrane Roof	32	AFA935821(SS)	Anchor Post (Stainless Steel)	61
AFA935292(CB)	Variable Corner Bend Post for Membrane Roof	32	AFA935831	Anchor Post	61
AFA935295	Extremity Post	20	AFA935831(SS)	Anchor Post (Stainless Steel)	61
AFA935295	Membrane Post	37	AFA935841	Anchor Post	62
AFA935296	Intermediate Post	20	AFA935851	Intermediate Bracket	59
AFA935296	Membrane Post	37	AFA935851(L)	Intermediate Bracket (Large)	59
AFA935297	Corner Post	20	AFA935851(M)	Intermediate Bracket (Medium)	59
AFA935297	Membrane Post	37	AFA935851(SM)	Intermediate Bracket	59
AFA935297(CB)	Membrane Post	37	AFA935851(SS)	Intermediate Bracket (Stainless Steel)	59
AFA935325	Extremity Post	17	AFA935865	Standalone Counterweight	
AFA935326	Intermediate Post	17		Anchor Post (300KG)	39
AFA935335	Corner Post	17	AFA935871(L)	Anchor Post (Large)	62
AFA935335(CB)	Variable Corner Bend Post for Trapezoidal Roof	33	AFA935950	Solar Spacer	38
AFA935345	Extremity Post	18	AFF110925	Traveler for Floor Mount Systems Only (Supplied with Karabiner)	49
AFA935345BS	Extremity Post for Standing Seam Roof	35	AFF111505	K-Lock Slotted Swagless Termination	70
AFA935355	Intermediate Post	18	AFF111506	Wire Joiner	38
AFA935355(CB)	Variable Corner Bend Post For Standing Seam Roof	34	AFF111510	Intermediate	16
AFA935355BS	Intermediate Post for Standing Seam Roof	35	AFF111510(CB)	Intermediates for Overhead System	50
AFA935355BS(CB)	Variable Corner Bend Post For Standing Seam Roof	35	AFF111510(OH)	Intermediates for Overhead System	50
AFA935365	Corner Post	18	AFF111510(S)	Intermediate Spacer	50
AFA935365BS	Corner Post For Standing Seam Roof	35	AFF112100	Shock Absorber	14
AFA935370	Aluminium Anchor for Standing Seam Roof	39	AFF112100	Shock Absorber	13
AFA935375	Extremity Post	19	AFF113210	Cable Extremity	13
AFA935376	Intermediate Post	19	AFF113710	Universal Extremity Plate	40
AFA935385	Corner Post	19	AFF113735	Pipe Mounting Bracket	45
AFA935385(CB)	Variable Corner Bend Post For Kliplok Roof	36	AFF113735(L)	Pipe Mounting Bracket (Large)	45
AFA935407	Anchor Post to mount SRL'S for Standing Seam Roof	39	AFF113735(M)	Pipe Mounting Bracket (Medium)	45
AFA935408	Anchor Post to mount SRL'S for Trapezoidal Roof	39	AFF114100(SL)	Swageless Tensioner	24
AFA935410	Extremity Post	13	AFF114100TF	Swaged Tensioner	13
AFA935420	Intermediate Post	13	AFF114112	Shock Absorber	43
			AFF114113	Swaged Tensioner	43
			AFF114191	Cable Extremity Stoppers	38
			AFF114192	Retrofit Cable Extremity Stopper	38
			AFF115100V	Inspection Plate	74
			AFF115101H	Inspection Plate	53
			AFF119025	Traveler	13
			AFF119028	Traveler	43
			AFF139010	Trolley For Wall	55
			AFF139020	Trolley for Ceiling/Floor	54

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AFF511000	Mounting Bracket	67
AFF511500	Intermediate	67
AFF512000	Shock Absorber	67
AFF512001	Cable Extremity Swageless	27
AFF513754	Bottom Extremity Mounting Bracket	70
AFF513755	Top Extremity Mounting Bracket C/w 15 kN Anchor Point	71
AFF513756	Top Extremity Mounting Bracket c/w 15 kN Anchor Point	70
AFF513804	Intermediate	70
AFF514000	Tensioner	67
AFF518119XXS	Stainless Steel Cable (1 Strands of 19 wires)	25
AFF5187X7XXS	Stainless Steel Cable (7 Strands of 07 wires)	25
AFF518XX(S)	Wire Rope	13
AFF531010	Corner	55
AFF531020	Inner Wall Mounted	57
AFF531030	Corner	54
AFF531030	Ceiling/ Floors	57
AFF531100	Aluminium Rail Intermediate	54
AFF531101	Aluminium Rail Extremity	54
AFF531500	Aluminium Extension	74
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AFF533000	Junction Clamps	74
AFF533500	Junction	54
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AFF533710	Wall Mounting Bracket Flush Type	55
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AFF539000	Vertical Trolley	74
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AFF7000	Fall Arrest System Component	67
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AFG805101	Rope Grab	67
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KStrong Asia Pacific
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