



USER INSTRUCTION MANUAL
EDGE ANCHORS

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODELS:

AFA930316, AFA930316C

CERTIFIED PRODUCT



AUSTRALIA & NZ STANDARDS

Certified to AS/NZS
5532:2013 Issued by BSI
Vide Lic. No.: BMP 760374

UIM Disclaimer

The information provided in this User Instruction is based on technical data obtained by KStrong under laboratory conditions and is believed to be reliable; however, KStrong makes no guarantees regarding results and assumes no liability or obligation arising from the use of this information. Since conditions of end use are beyond KStrong's control, it is the user's responsibility to assess hazard levels, determine product suitability for the intended application, and ensure the use of appropriate personal protective equipment. Evaluation under specific end-use conditions should be conducted by persons with appropriate technical expertise at their own discretion and risk.

This information is provided solely to assist in verifying that the selected product is suitable for its intended use. Any product that is damaged, torn, worn, punctured, altered, or misused must be removed from service immediately. Failure to follow the manufacturer's instructions for proper use, care, maintenance, or system integration may result in serious injury or death. All manufacturer's instructions for each component or part of the complete system must be read, understood, followed, and retained, and must be kept available for the user's reference at all times. The user is advised to retain this User Instruction document for the life of the product.

Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on its proper use. Users are required to complete and record the pre-use inspection as outlined in this UIM. Failure to follow these inspection and usage requirements significantly increases the user's liability exposure, as improper or undocumented use may not be supported during an incident investigation and could affect warranty or service outcomes. The manufacturer is not liable or responsible for any loss, damage, or injury caused or incurred by any person due to improper usage or installation of this product.

Important Safety Information

Failure to follow these instructions may result in serious injury or death. Read and understand all instructions before using this fall arrest system

PREFACE

For supplementary information, see AS/NZS 1891.4 2025 Personal equipment for work at height Part 4: Selection, use and maintenance, which covers:

- (i) the traceability of the anchor;
- (ii) multiple anchor system design;
- (iii) anchor installation location;
- (iv) visual inspection before use;
- (v) compatibility with connectors;
- (vi) inspection frequency; and
- (vii) removal from service.

This User Instruction Manual has been designed to comply with the **AS/NZS 5532:2013** Manufacturing requirements of single point anchor device used for harness based work at height. Section 7 Instructions for Use & Marking.

A. Key Fall Protection Considerations

A1 Fall Clearance

When designing your fall protection system, it is critical to carefully evaluate every component to prevent injury. Figure A illustrates how to determine fall clearance.

FIGURE A (Fall Clearance)

$$RD = FFD + DD + C$$

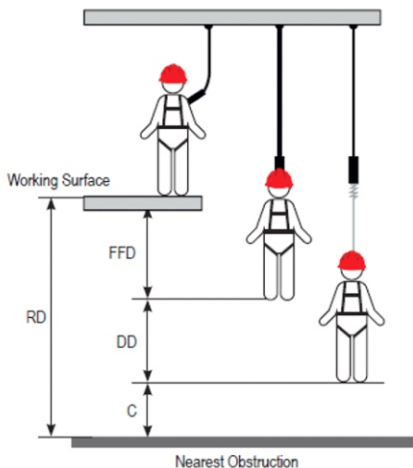
RD = Required Distance
Working surface to Nearest Obstruction

FFD = Free Fall Distance
2.0m Maximum allowed

DD = Energy Absorber Deceleration Distance
+ D-Ring Slide and Harness Stretch

C = Clearance to Obstruction During Fall Arrest
(1.0m minimum safety factor required)

FFD	Extension
600mm	300mm
1000mm	500mm
1500mm	600mm
2000mm	900mm

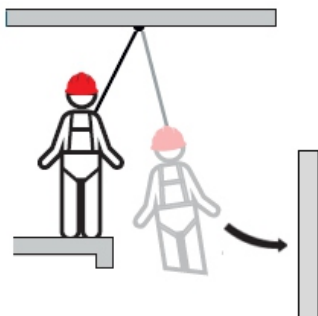


A2 Swing Fall

Positioning yourself off-centre from an anchor point risks a swing fall. Refer to Figure B. Fall protection systems must be configured to minimise the risk of a swing fall.

! Impact with an object as a result of a swing fall may cause serious injury or death.

FIGURE B (Swing Fall)



A3 Hazards

Operating this equipment in hazardous conditions may result in equipment damage and/or impair its performance. Such hazards include, but are not limited to: extreme temperatures, sharp edges, chemical agents, electrical conductivity, abrasion, cutting forces, outdoor exposure, and rotating or moving machinery.

A4 Training

All users must receive adequate training in the inspection, configuration, and operation of this equipment. Each user is responsible for ensuring they are properly trained and fully aware of the equipment's operational limits.

! Failure to use this equipment correctly may result in severe injury or death.

A5 Rescue

Both the user and their employer are responsible for establishing and maintaining a suitable rescue plan, and for being able to execute it at, all times during setup and use of this equipment.

A6 Record Keeping

KStrong advises that the owner of this product keeps a record, which is made available to users, containing the following: product identification marks; manufacturer name, contact details and serial number; suitability for use with other components; date of purchase; date into service; date of next inspection/service, and; a space for user comments.

B. Connections

B1 Making Connection

Only form compatible connections. Before use, always verify that connectors are fully closed and locked. The following are examples of connections that must be avoided;

- (i) To an anchor or D-ring which has another connector attached.
- (ii) In a position that will apply load to the gate mechanism.
- (iii) By passing the connection through the attachment.
- (iv) Connecting a connector to another connector.
- (v) Around a structure and back to the lifeline.
- (vi) To an attachment that will limit the function of the gate.
- (vii) To a location that will not load the connector as designed.

FIGURE C (Making Connections)

NOTE: Large throat opening snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook. (Refer 7 & 8)

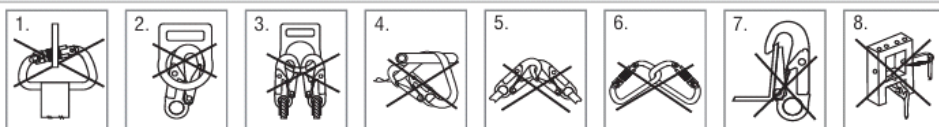


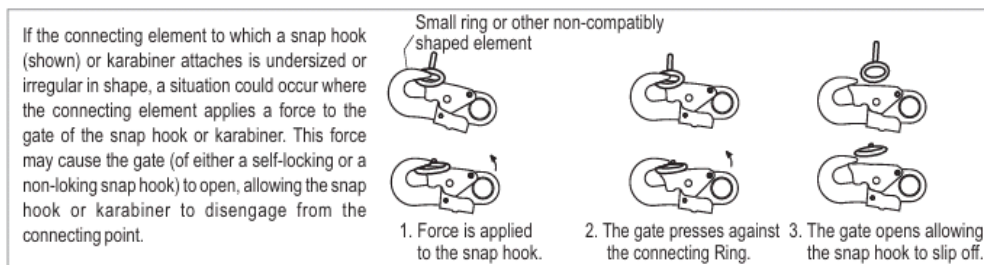
Figure 3.

B2 Compatibility of Connections

All connections made to and with this equipment must be compatible. Connectors must match in shape, size, and load rating to ensure a safe and secure connection. Incompatible connections risk placing load on the gate mechanism, which may lead to accidental disengagement. All connectors must comply with EN362 and be equipped with automatic closing and locking functions.

! Using an incompatible or improper connection may cause accidental disengagement of the connector, potentially resulting in serious injury or death.

FIGURE D (Compatibility of Connections)



C. Use

C1 Planning

Prior to commencing work, assess all workplace hazards and available fall clearance to plan your working at heights and rescue procedures.

Confirm that all users are physically fit and competent to operate this equipment and carry out the rescue plan safely.

C2 Use

1. Inspect the product and structure as per this instruction manual. Remove the product from service immediately if it has been involved with a fall or does not pass this inspection.
2. Review the recommendations for use with other components.
3. Check compatibility with attachment hardware.
4. Check the anchor rating is suitable.
5. Connect the users fall arrest system to the D-ring attachment point on the product.
6. The product may be used with a fall direction in any direction around the product when installed into steel.
7. When chemically fixed into concrete the product may be used with a fall direction in any direction around the product whilst in shear, but may not be used where the fall direction exceeds 20deg in tension.

D. Storage, Transport and Maintenance

D1 Storage and transport

This equipment must be stored and transported in a cool, dry location, shielded from hazards and protected from direct sunlight.

D2 Maintenance

The anchors in this instruction are non serviceable. The equipment may remain in service until it fails an inspection or is involved in a fall.

! Do not attempt to alter or take apart this product in any way.

D3 Cleaning

Periodic cleaning by the end user can help extend the service life of the anchors. Following any cleaning, carry out the pre-use inspection. Use a cloth and warm water to clear away dirt and grit. For grease or oil residue, a mild detergent may be applied.

! Never put this product away while it is still wet. Ensure the product is fully dry and has passed a pre-use inspection before returning it to service.

E. Inspection

E1 Before and After Use

The anchor product, and the surrounding anchorage structure, must be checked by the user both before and after every use to insure that it is in a serviceable condition.

E2 Competent Person

The anchor product, and the surrounding anchorage structure, must be inspected by a competent person no less than once every 12 months, and must meet all specific criteria set out in the inspection record for that product.

E3 Procedure

E3.1 Anchorage Structure – inspect the surrounding concrete or steel anchorage structure for cracks, excessive/penetrative corrosion, or any other signs that it's structural integrity may be compromised.

E3.2 Attachment Point - inspect for damage, deformation, corrosion or signs of over loading.

E3.3 Markings - inspect all markings are present and legible.

E3.4 Proof Loading - Applicable for concrete anchors only as per AS/NZS1891.4. Proof load each fixing to 50% of its rating, in direct tension, and hold for 3 minutes. Competent person inspection only.

F. Limitations of Use

F1 Temperature Range for Use

KStrong Single Point Anchors have been tested to work safely at temperatures between -40 deg C & 54 deg C. Temperature range for KStrong Single Point Anchors for Concrete fixed with Hilti RE100 or RE500 is between 5 deg C & 40 deg C, at time of installation, and between -40 deg C and 70 deg C for use. NB this range may differ if alternative chemical adhesives are used.

F2 Product Life

KStrong Single Point Anchors have a standard lifespan of 10 years from date of installation, but may remain in service indefinitely, providing they pass annual competent person inspections. It must be noted that the effective lifespan of the product will be limited by both the condition of the anchorage structure into which it is installed, and the fixing methodology ie chemical adhesive.

F3 Bi-Metallic Corrosion

Where dissimilar metals are in contact or in proximity, bi-metallic (galvanic) corrosion may occur. All metallic components must be compatible with the installation substrate and surrounding materials. Where dissimilar metals cannot be avoided, appropriate isolation measures must be applied to prevent direct metal-to-metal contact.

F4 Compatibility of Connectors

Refer to above Section B.

F5 Corrosive Environments

KStrong Single Point Anchors are manufactured from stainless steel grade 316 and aluminium are suitable for use in most environments. However, exposure to corrosive conditions — including coastal, marine, industrial, chemical, or high-humidity environments — may accelerate degradation and reduce service life. In corrosive environments, inspection frequency must be increased beyond standard intervals, as determined by a competent person

G. Warnings

G1 Warnings for Use

- ! This product is rated for one person only. Never connect more than one user to this product.
- ! This product is for personnel use only and must never be used for materials handling.
- ! A personal energy absorber must be included in the connecting system.
- ! Connect only to the designated attachment point on the anchor - do not attach to any other location.
- ! Using connectors that are not compatible with this product may result in roll-out and accidental disconnection.
- ! Always refer to the connecting system manufacturer's instructions to verify compatibility with this equipment.
- ! While working, always account for the necessary fall clearance, potential swing fall, and any hazards in the work area.

G2 Warnings for Installation

- ! Misuse, incorrect installation, or failure to maintain this product may lead to severe injury or death.**
- ! The structure used to anchor KStrong products must be assessed by a competent person. If there is any doubt regarding its strength or suitability, it must be referred to a qualified structural engineer for evaluation.**
- ! The anchorage structure's load-bearing capacity and condition must be re-evaluated by a competent person and/or a qualified engineer, in order to recertify the KStrong anchor product into another year of service, in line with its individual lifespan, and any extension to that lifespan, as per section F2 above.**
- ! KStrong products must be installed, operated, and serviced in line with the relevant KStrong installation and use manual.**
- ! KStrong's products must be operated in compliance with the prevailing working at height regulations, codes of practice, standards, or legislation applicable in the country of use.**
- ! Whenever practicable, an anchor product should be installed to a location above the user, in order to minimize free fall.**
- ! Professional guidance, by a competent person, is recommended where a layout of multiple anchor systems is required, to insure comprehensive coverage and adequate fall clearance.**
- ! Where anchor devices are to be installed in an existing building, the types of structure should be checked to ascertain the nature and thickness of the structural materials, and appropriate fixings should be selected. Ensure that decorative coatings are removed to ensure the correct evaluation of the substrate. The installer needs to follow the manufacturer's instructions in addition to those of the designer of the installed system.**
- ! Where the fixing is in a substrate other than those specified in the manufacturer's instructions for use, the installer needs to refer to the system designer who may also require verification of suitability by carrying out a test in a sample of the material. The sample is required to meet the requirements of the relevant test specified in Clause 5 of the Standard (AS/NZS 5532)**
- ! Throughout installation, operation, and servicing, workers must not be placed at risk of a fall hazard.**
- ! Installation must be performed by, or under the direct supervision of, a competent person.**
- ! Prior to installing this product, the installer must complete all relevant KStrong training.**
- ! Any connection systems used in conjunction with KStrong Anchors, Lifelines, and Rigid Rail Systems must incorporate a personal energy absorber.**
- ! No alterations to this product may be made without prior written authorisation from KStrong.**

1 Specification

1.1 Description

The KStrong anchors covered in this manual are single point anchors designed for use in concrete or steel structures.

1.2 Standard

These anchors meet the requirements of AS/NZS 5532 2013.

1.3 User Rating

All anchors have a rated capacity of 15kN and are designed for a Single User in either Fall Restraint, Fall Arrest or for Abseil.

! Some products may show higher MBS and user ratings, relevant to other international standards or for use as System Termination Anchors in Horizontal Lifeline and Vertical Lifeline Systems. However, for use as Single Point Anchors in Australia and New Zealand, they are strictly rated to only 15kN and a Single User, as per AS/NZS 5532 2013.

1.4 Product Range

FIGURE 1 (SKUs Covered In This Manual)

AFA930316 360 Degree Swivel Anchor Point (To Suit Metal Structures)	AFA930316C (Concrete) 360 Degree Swivel Anchor Point

2 Installation

2.1 General

2.1.1 Structure

Prior to installation, the structure must be evaluated to confirm it has sufficient strength and is in a condition suitable for supporting these products.

2.1.2 Fixings

All fixings, including studs and bolts, must be stainless steel grade 316 or 304, of the specified diameter for that product, and secured using stainless steel flat washers & lock nuts to guard against loosening.

2.1.3 Torque

All fixings must be tightened to the torque values specified in FIGURE 2 below.

FIGURE 2 (Torque Settings)	
Fastener Size	Torque (Nm)
M12	50
M16	60

3.1 Degree Swivel Anchor Point

3.1.1 Concrete

1 Drill a hole as per FIGURE 3 below. The hole depth must be into structural concrete.

2 Clean the holes of dust and inject the chemical adhesive.

3 Install a 130mm SS stud so the top of the stud shall sit 55mm above the surface of the concrete. Wipe away any adhesive expelled from the hole.

4 Once the chemical has cured, install the anchor, SS washer and SS locknut and tighten as per Section 2.1.3

! At least two threads must protrude beyond the end of the lock nut.

! This installation method is compatible with Hilti RE100 & RE500 injectable epoxies. Alternative adhesives or products may call for different hole depths or edge distances. Refer to the relevant manufacturer's instructions for full details.

FIGURE 3 (Concrete Spec Table)				
			Min 30MPa	
SKU	Hole Diameter (mm)	Hole Depth (mm)	Edge Distance (mm)	Slab Thickness (mm)
AFA930316 & AFA930316C	18	75	200	100

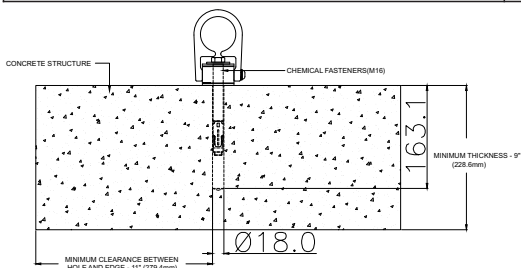
3.2 Steel

1 Drill a hole in the steel as per FIGURE 5 below.

2 Install the anchor, with supplied steel fixing or SS M16 bolt to desired length, SS washer and SS lock nut, and tighten as per Section 2.1.3

! At least two threads must protrude beyond the end of the lock nut.

FIGURE 5 (Steel Spec Table)	
SKU	Hole Diameter (mm)
AFA930316 & AFA930316C	18



COMPASS

KStrong COMPASS Inspection Software is a web-based system used to record, manage, and track inspection and compliance data for fall protection systems and PPE. It stores equipment details and inspection records for a minimum of 20 years, provides automated inspection due notifications, and allows authorised users to view real-time equipment status and compliance documentation through a secure interface.



- Cloud based online as well as offline software
- Captures geo coordinates where the system is installed
- RFID/Barcode compliant
- Generates report in real time
- Reminds user of items due for inspection
- Captures images of components
- User customizable
- Can be integrated to client software
- Reports can be shared with multiple recipients in real time

4. Warranty

All KStrong products are manufactured under strict quality control and tested in accordance with relevant international standards to ensure reliability, durability, and user safety.

KStrong Asia warrants that its products are free from manufacturing defects in material and workmanship for a period of two (2) years from the date of purchase, unless otherwise specified. This warranty applies under normal conditions of use, storage, and maintenance as described in the User Instruction Manual (UIM).

Warranty Conditions - This warranty is valid only when:

- The product has been used strictly in accordance with manufacturer guidelines and safety instructions.
- The product has been installed, maintained, and inspected by trained and competent personnel.
- The product has not been altered, modified, or repaired by any unauthorized party.
- The product has not been exposed to misuse, negligence, or abnormal conditions (e.g., chemical contamination, fire, impact, or excessive loading).
- The product is registered with KStrong Asia at the time of purchase or installation, where applicable.

Exclusions - This warranty does not cover:

- Normal wear and tear resulting from regular use.
- Damage due to improper installation, storage, or maintenance.
- Products that have been subjected to a fall arrest or load event.
- Unauthorized modifications or repairs.
- Consequential or incidental damages arising from product failure.
- Once a product has been involved in a fall or impact, it must be removed from service and inspected by an authorized KStrong representative before any decision regarding reuse or replacement is made.

Warranty Claims - To make a warranty claim:

- The client must notify KStrong Asia or the authorized distributor in writing, providing full details of the issue, including proof of purchase, serial number, and system identification.
- The product must be returned to KStrong Asia or its designated service centre for inspection and evaluation.
- If the defect is confirmed to be due to faulty materials or workmanship, KStrong Asia will, at its discretion, repair or replace the product free of charge.

KStrong Asia reserves the right to determine the validity of all warranty claims, and its decision shall be considered final and binding.

KStrong does not provide a product functioning warranty; the warranty stands for the workmanship of the products only.

KStrong systems are made of stainless steel grade 316, ED coated steel or aluminium and are highly resistant to corrosion.

KStrong systems are thus further warrantied for 20 years (15 years for Marine Environment) provided they pass competent person inspection once annually.

Warranty Disclaimer

This warranty is in addition to, and does not affect, the consumer's statutory rights under applicable local laws.

KStrong Asia's liability under this warranty is limited strictly to the repair or replacement of the defective product and does not extend to any indirect, incidental, or consequential damages

Inspection Log

DISCLAIMER: Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on its proper use. Users are required to complete and record the pre-use inspection as outlined in this UIM. Failure to follow these inspection and usage requirements significantly increases the user's liability exposure, as improper or undocumented use may not be supported during an incident investigation and could affect warranty or service outcomes. The manufacturer is not liable or responsible for any loss, damage, or injury caused or incurred by any person due to improper usage or installation of this product.

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*Updates to the UIM are part of our regular revision cycle to keep the manual current and aligned with evolving best practices. While the UIM has always been compliant with the equipment's intended design and safety requirements, periodic updates are important to ensure continued clarity, accuracy, and optimal user guidance.

Certification Body & Ongoing Assessment Body (AUSTRIALIA & NZ STANDARDS)
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