

USER INSTRUCTION MANUAL
**EDGE CROSS ARM AND CONCRETE
WEB ANCHOR STRAPS**

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODELS:

AFA920115, AFA920515, AFA920015, AFA921515, AFA921005,
AFA921010, AFA921016 and AFA927015

CE 0598
EN 566:2017,
EN 795:2012 Type B

Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the user's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

Note: The user is advised to keep this user instructions document for the life of the product.

1. **INTRODUCTION:** These Anchorage Slings are classed as a Personnel Protective Equipment (PPE) by the European PPE Regulation (EU) 2016/425 and have been shown to comply with this Regulation through the Harmonized European Standard EN 795 : 2012 Type B and EN 566:2017.
Anchorage Slings Ref. AFA927015, AFA920515, AFA920015 comply to EN 795:2012 Type B only and Anchorage Slings Ref. AFA921005, AFA921010, AFA921016 comply to EN 566:2017 whereas Anchorage Slings Ref. AFA920115, AFA921515 comply to both the Standards i.e. EN 795:2012 Type B and EN 566:2017.

2. **DESCRIPTION:**

CATEGORY	MODEL	DESCRIPTION	M.B.S.
EDGE ANCHORS	AFA920115	CROSS ARM STRAP	23kN
EDGE ANCHORS	AFA920515	CROSS ARM STRAP	23kN
EDGE ANCHORS	AFA920015	CROSS ARM STRAP	23kN
EDGE ANCHORS	AFA921515	CROSS ARM STRAP	23kN
EDGE ANCHORS	AFA921005	CROSS ARM STRAP	23kN
EDGE ANCHORS	AFA921010	CROSS ARM STRAP	23kN
EDGE ANCHORS	AFA921016	CONCRETE ANCHOR STRAP	23kN
EDGE ANCHORS	AFA927015	HOTWORX WELDERS CROSS ARM STRAP	23kN

3. **INSTRUCTIONS:** These Anchorage Slings are designed to minimise the risk of/provide protection against the danger of falling from heights. **However, always remember that no item of PPE can provide full protection and care must always be taken while carrying out the risk related activity.**
4. **PERFORMANCE AND LIMITATIONS OF USE:** The Anchorage Slings Ref. AFA920515, AFA920015 have been tested in accordance with EN 795:2012 Type B and, Ref. AFA921005, AFA921010, AFA921016 only with EN 566:2017 whereas Ref. AFA927015, AFA920115, AFA921515 have been tested in accordance with both the above mentioned norms and have achieved the following performance levels:

EN 795:2012 Type B test	Results/Comments
Clause 4.1 General Requirement for Anchor devices Clause 4.4.2.3 Static Strength Clause 4.4.2.2 Dynamic Strength & Integrity Clause 4.7 Corrosion Resistance	Achieves required performance requirement Achieves required performance requirement Achieves required performance requirement Achieves required performance requirement

EN 566:2017 test	Results/Comments
Clause 3.1 Stability Clause 3.2 Stitching Clause 3.3 Tensile Strength	Achieves required performance requirement Achieves required performance requirement Achieves required performance requirement

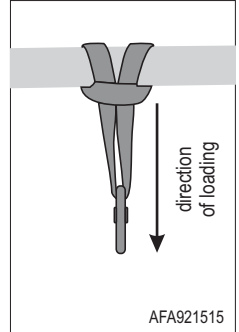
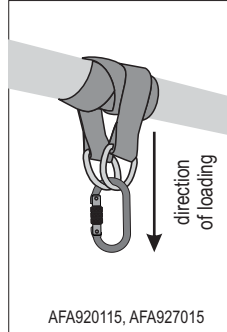
EN ISO 15025:2002 EN ISO 9150:1988 }	The webbing of this product has passed strength test as per EN 361:2002 after being exposed to small molten metal splash test according to ISO 9150:1988 & the webbing has also been tested in accordance with EN ISO 15025:2002.
---	---

5. **HOW TO USE:** These anchorage slings are mobile anchorage point to be used for anchorage in a fall arrest system. It is useful at working areas where there are horizontal beams or pipes or other structures on which it can be looped and used as anchor point. AFA920015 to be used as Choke Back Sling.

Step 1 : Identify a beam or similar horizontal structure strong enough or known to have a strength of > 12 kN.

Step 2 : Loop the anchorage sling on the beam as shown in figure below. Use Karabiners if required. Ensure that the Karabiner screw is locked tightly.

Step 3 : The Karabiner finally hanging down can now be used as an anchorage point. You can either attach a retractable fall arrester as per EN 360:2002 using karabiners or anchorage line of a guided type fall arrester as per EN 353-2:2002 or the anchorage hook of the lanyard into this point.



Warning: For proper anchorage strap installation, concrete must be cured to 3000 lbs psi, and able to support 5000 lbs load. If unsure of Anchorage strength, refer to Engineer for clarification.

Installation of Cross Arm Strap (AFA920515)

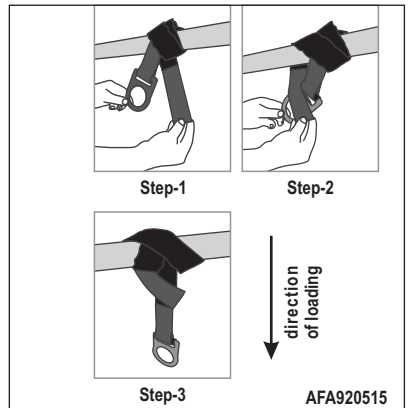
Step 1: Loop the cross arm strap around a suitable and strong structure.

Note: The label on the strap should face outwards, and the structure on to which cross arm strap is to be looped must be free from sharp and abrasive edges. If however, there is presence of sharp, abrasive surface on the structure, then this should be covered with a suitable covering recommended for such use.

Step 2: Pass the D-ring end through loop end of the cross arm strap and cinch tightly.

Step 3: Loop the entire strap around the underlying structure, so that there remains no excess webbing. Each time while looping, pass the D-ring through the webbing loop. Continue till all the excess webbing is used up.

Step 4: Use the D-ring to anchor the connecting element of the personal fall arrest system.



Installation of Cross Arm Strap (AFA920015)

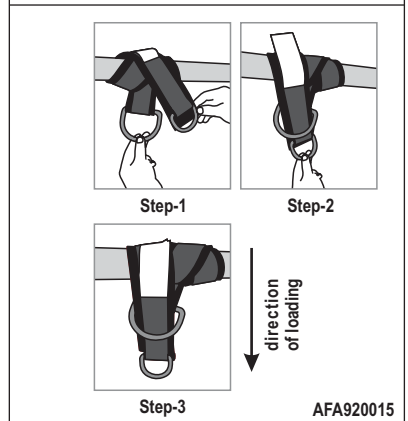
Step 1: Loop the cross arm strap around a suitable and strong structure.

Note: The label on the strap should face outwards, and the structure on to which cross arm strap is to be looped must be free from sharp and abrasive edges. If however, there is presence of sharp, abrasive surface on the structure, then this should be covered with a suitable covering recommended for such use.

Step 2: Pass the small D-ring through the large D-ring of the cross arm strap, and cinch tightly.

Step 3: Loop the entire strap around the underlying structure, so that there remains no excess webbing. Each time while looping, pass the small D-ring through the large D-ring. Continue till all the excess webbing is used up.

Step 4: Use only the small D-ring to anchor the connecting element of the personal fall arrest system.

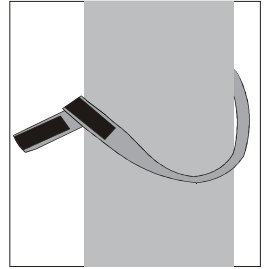


How to install the concrete anchor strap: (AFA921016)

STEP 1: Identify a pillar, wall or a beam which shall be the best location for wrapping the concrete anchor strap, as the ideal Anchorage for Fall Protection.

STEP 2 : Now take the Concrete anchor strap and loop it around the beam or pillar . Allow the small loop-end of the strap to pass through the bigger loop at the other end of the strap, as shown. Tighten the strap by pulling at the free end.

STEP 3 : The Anchor Strap is ready to be used as an Anchor Point.

**6. ADVICE & INFORMATION :**

- Anchorage Slings should be the personnel property of its user.
- It should not be used in highly acid or basic environments.
- The anchorage sling has been tested to EN 795 : 2012 Type B and is appropriate only for single person use with an energy absorber as per EN 355:2002.
- Ensure that the structure on to which the sling is being looped is free of sharp edges or burrs.
- Ensure that the Anchorage Slings are installed directly above the user's head.
- Ensure that the equipment is compatible with other items when assembled into a system.
- It is essential to verify the free space required beneath the user at work place before each occasion of use so that in case of a fall there will be no collision with ground or other obstacle in the fall path.
- It is essential for the safety of user that if the product is resold outside the original country of destination, the reseller shall provide instruction for use, maintenance, for periodic examination and for repair in the language of the country in which product is to be used.
- When ANCHOR DEVICE is being used on a structure, maximum load to the anchor point should not be more than 6kN and the directions of loading should be as shown in the figure above.
- With these kind of ANCHOR DEVICES, deflection in case of fall is very limited (< 50 mm). During use, displacement of the anchor point can occur, check regularly its position.

7. PRE-USE INSPECTION

- Visually inspect the system before each use to ensure that it is in a serviceable condition and is operating correctly. If during inspection, doubts are raised about the safety of the system or a component, these should be replaced either by the manufacturer or a competent person.
- As the safety of users depends upon the continued efficiency and durability of the equipment, therefore it is highly recommended that the user must perform periodic examinations of the equipment on regular basis.
- The equipment should be periodically examined at least at every 12 months' frequency.
- The frequency of examination should be at least once in a year however it can be more than once if legislation requires, or frequency of use is high or environmental conditions have an adverse affect on it e.g. excessive rain, sea side environment, excessive heat etc.
- The periodic examinations must be conducted by a competent user only and strictly in accordance with the manufacturer's periodic examination procedures.

8. PERIODIC EXAMINATION:

- It is important to conduct regular periodic examination of the product because the safety of the user depends upon the continued efficiency & durability of the product.
- The frequency of examination should be at least once in a year however it can be more than once if legislation requires, or frequency of use is high or environmental conditions have an adverse affect on it e.g. excessive rain, sea side environment, excessive heat etc.
- It is emphasized that the examination be conducted only by a competent person and strictly in accordance with the manufacturer's periodic examination procedures.
- It is also advised the competent person be duly trained and authorized by the manufacturer.
- Ensure that all markings on the product are legible and can be clearly read.

9. COMPATIBILITY:

- To optimise protection, in some instance it may be necessary to use the anchorage sling with suitable ppe such as boots/ gloves/ helmet/ ear defenders.
- In this case, before carrying out the risk-related activity, consult your supplier to ensure that all your protective products are compatible and suitable for your application.

10. MATERIAL USED: Non-metallic part of the sling i.e. webbing is made up of Polyester & Aramid is used to make the Hotworx Welders Cross Arm Strap.

11. STORAGE AND TRANSPORTATION:

Follow the storage and transportation instructions procedure laid below strictly.

Storage:

- Store in cool dry place, preferably away from moisture, direct sunlight, extra acidic or basic conditions, sharp edges.
- When not in use, store the anchorage slings in a well-ventilated area away from heavily acidic or basic environment.
- Never place heavy items on top of it.
- Also ensure that it is stored away from chemically hazardous environment preferably storage should be in dry environment.

Transportation:

- Ensure that manufacturer's packing is used during transportation to prevent damage. In case original packing is not available, use polybag which is sealed to prevent moisture.

12. REPAIR:

- If the product becomes damaged, it will NOT provide the optimum level of protection, and therefore should be immediately removed from service.
- Never use the damaged product.
- Repair is permitted, provided that it is either done by the manufacturer or a competent repair centre or individual approved by the manufacturer.

13. CLEANING:

- In case of minor soiling, wipe the anchorage sling with cotton cloth or a soft brush.
- Do not use any abrasive material.
- For intensive cleaning wash the anchorage sling in water at a temperature not more than 40°C by using a neutral detergent (pH7).
- The washing temperature should not exceed 40°C.
- Do not use acidic or basic detergents.
- When the equipment becomes wet, either from being in use or when due to cleaning, it shall be allowed to dry naturally, and shall be kept away from direct heat.

14. WITHDRAWAL FROM USE: If the system has been used to arrest a fall, it should be removed from service and returned to the manufacturer or a competent repair centre for servicing and retest.

16. HOW TO DISPOSE AN ANCHORAGE SLING:

When the anchorage sling becomes unfit or in case of any wear and tear, dispose the anchorage sling immediately.

Follow the steps for Disposal:

- Make the three plastic crates namely- Textile, Metal & Plastic for placing the respective components of the anchorage sling.
- Spread the anchorage sling on a table / flat surface.
- Inspect the wear & tear present on the anchorage sling.
- If any wear and tear is observed, dispose the anchorage sling using a sharp pair of scissor; first cut the Textile and dismantle the anchorage sling.
- Put the Textile, Plastic & Metal components in their respective plastic crates.

16. WARNING:

- Ensure the Medical condition of the user does not affect his safety in normal and emergency use.
- The equipment shall only be used by a person trained and competent in its safe use.
- A rescue plan shall be in place to deal with any emergencies that could arise during the work.
- Do not make any alteration or additions to the equipment without the manufacturer's prior written consent and repair shall only be carried out by personnel trained by the manufacture & duly authorized by him.
- The equipment shall not be used outside its limitation, or for any purpose other than that for which it is intended.
- Ensure the Medical condition of the user does not affect his safety in normal and emergency use.
- It is essential for the safety of the user that if a product is re-sold outside the original country of destination the reseller shall provide instructions for use for maintenance, for periodic examination and for repair in the language of the country in which the product is sold.
- The device should be used with appropriate combinations only. The user should not make any combination which compromises safe function of any other devices used in combination or entire fall protection system or rescue system.
- Always assess Environmental condition before working at height. Condition like snowing, raining may interfere with normal use of the products. Always refer Risk Assessment Sheets and regional safety department guidelines.
- Do not apply knots until it is found to be safe. Knots decrease the strength of the PPEs upto 80%.
- When the anchor device is used as part of a fall arrest system, the user shall be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 6kN.
- The anchor device should only be used for personal fall protection equipment and not for lifting equipment.
- If there are any doubts about the condition for safe use then it should be removed immediately.
- A full body harness is the only acceptable body holding device that can be used in a fall arrest system.

17. MARKING ON PRODUCT: The anchorage webbing slings/straps are marked with :

- The CE mark showing that the product meets the requirements of the European PPE Regulation (EU) 2016/425
- Identification of the manufacturer
- Type or product code
- Month & Year of Manufacture
- UID for traceability
- Number of the standard
- Material Used
- Length of the sling
- Static / tensile Strength
- Pictogram that indicates to read the instructions
- Number of the ongoing assessment body
- For Single User Only

MARKING

UNRIVALED SAFETY.

HOTWORX WELDERS

CROSS ARM STRAP

<p>Model : AFA927015</p> <p>DOM : MM/YYYY</p> <p>Material : Aramid</p> <p>Length : 1.5 m</p> <p>Strength : 23kN</p> <p>UID : XXXXXXXXXXXXX</p>	<p>iii</p> <p>vii</p> <p>viii</p> <p>v</p> <p>xi</p>
--	--

CE 0598

EN 795:2012 Type B,
EN 566:2017,
ISO 9150:1988 &
EN ISO 15025:2002

MAX

QRCODE

KStrong Inc.,
 150 N. Radnor Chester Road Suite F200 Radnor,
 Pennsylvania 19087 United States

KStrong.com Made In India

LIFESPAN: The estimated product Lifespan is 10 years from the date of manufacture. The following factors can reduce the Lifespan of the product: intense use, contact with chemical substances, specially aggressive environments, extreme temperature exposure, UV exposure, abrasions, cuts, violent impacts, bad use or maintenance.

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 the proper usage of the product. Manufacturer is not liable or responsible for any loss, damage or injury caused or incurred by any person on grounds of improper usage or installation of this product.

EQUIPMENT RECORD				
Product				
Model & type/Identification		Trade Name		Identification number
Manufacturer		Address		Tel, email into use
Year of manufacture		Purchase Date		Date first put into use
Other relevant information (eg. document number)				
PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

Certification Body :

SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)

Ongoing Assessment Body:

SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland (Notified Body 0598)

For EU Declaration, visit <https://kstrong.com/asia/eu-declaration-form/>



KStrong Inc.
150 N. Radnor Chester Road Suite F200
Radnor, Pennsylvania 19087 United States
Contact number : 1-833-KSTRONG

www.kstrong.com

USA

South America

ASIA
