



USER INSTRUCTION MANUAL
EDGE REUSABLE CONCRETE ANCHOR

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:

AFA930301

CE 0598
EN 795:2012 TYPE B



II 2G
Ex h IIc T6 Gb
EN 80079-36:2016
EN 80079-37:2016

CERTIFIED PRODUCT



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

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:** This Edge Concrete Anchor is classed as Personal Protective Equipment (PPE) by the European PPE Regulation (EU)2016/425 and has been shown to comply with this Regulation through the Harmonized European Standard EN 795:2012 Type Band Australia & NZ Standards AS/NZS 5532:2013.

This Anchor is designed to minimize 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.**

- 2. PERFORMANCE AND LIMITATIONS OF USE:** The Anchor has been tested in accordance with EN 795:2012 Type B and Australia & NZ Standards AS/NZS 5532:2013 and has achieved the following performance levels:

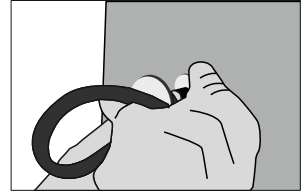
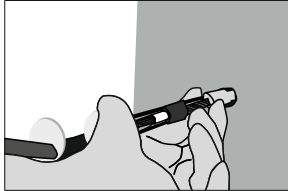
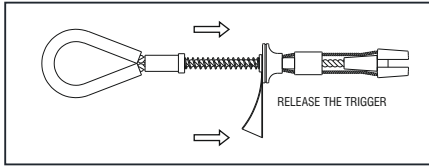
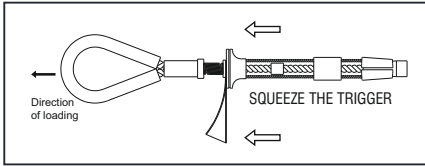
EN 795:2012 Type B Test	Result / Comment
General Requirements for Anchor devices (Clause 4.1)	(PASS) No sharp edges (PASS).
Static Strength (Clause 4.4.2.3)	Sustained a force of 12 kN for 3 minutes (PASS).
Dynamic Strength (Clause 4.4.2.2)	When tested with rigid steel mass of 100 kg, the test mass held after test with the device remaining stable throughout. (PASS)
Corrosion Resistance (Clause 4.2.2.1)	No corrosion evident after 48 hours of salt spray testing. (PASS)

AS/NZS 5532:2013 test	Result/Comment
Static Strength (Clause 5.3)	Sustained a force of 15 kN for 3 minutes (PASS).
Dynamic Performance (Clause 5.3)	When tested with rigid steel mass of 100 kg, the test mass held after test with the device remaining stable throughout. (PASS)

- 3. APPLICATION:** This Anchor is designed for fastening into a pre-defined hole of dia. 20 mm. through a drilling depth of 89mm Minimum. The anchorage eye is used as an anchorage point for fall protection equipment.
- 4. 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.
- 5. PRECAUTIONS:**
 - Ensure the Medical condition of the user does not affect his safety in normal and emergency use.
 - Ensure that the Anchor is installed directly above the user's head.
 - Ensure that the equipment is compatible with other items when assembled into a system.

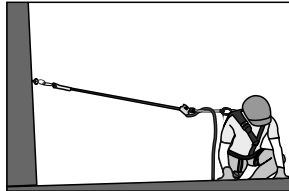
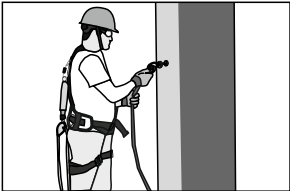
6. INSTRUCTIONS FOR USAGE :

The concrete Anchor (AFA930301) may be attached to the structure by pulling on the spring loaded trigger component.



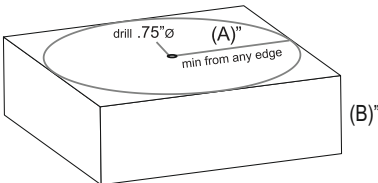
A diameter hole of 0.75" (20mm) with minimum deepness of 3.5" (89mm) is to be drilled ensuring it to be straight and perpendicular to the surface. The drilled hole must have a uniform diameter with no trace of peaks and valleys on the inner wall. Clean the drilled hole by blowing compressed air.

Put your thumb inside the anchor loop and the first two fingers around the trigger while placing the anchor. Also until the trigger and spring fully compresses, squeeze the fingers and thumb together. To lock the anchor, release the trigger after inserting it in the hole at least 3" (76mm) deep.

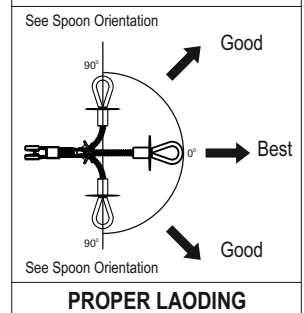
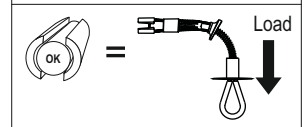
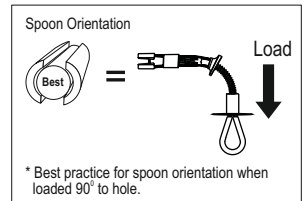


Now the eye of the anchor can be used as anchorage point. Connect the lanyard with the anchor.

Now the anchor is ready to use.

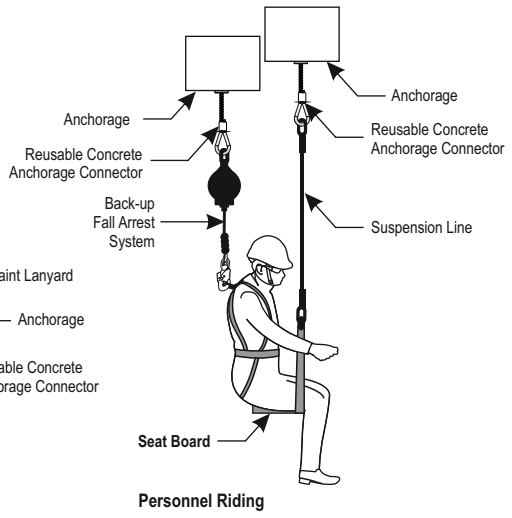
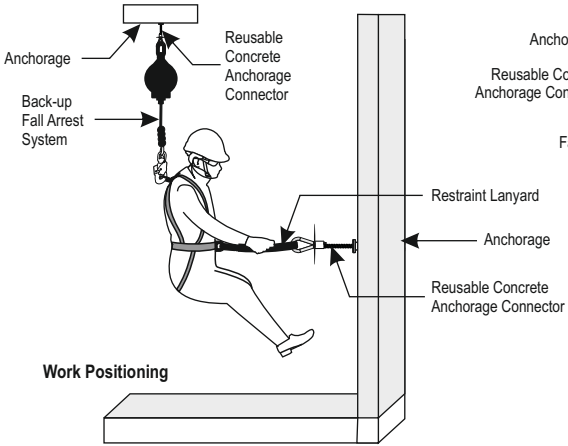
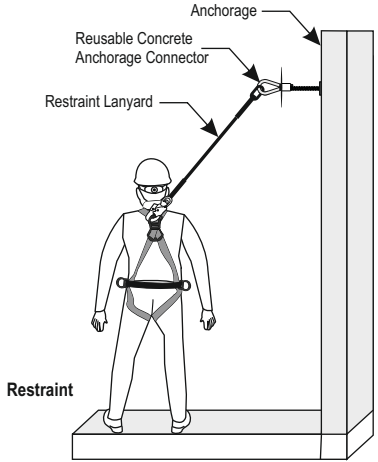
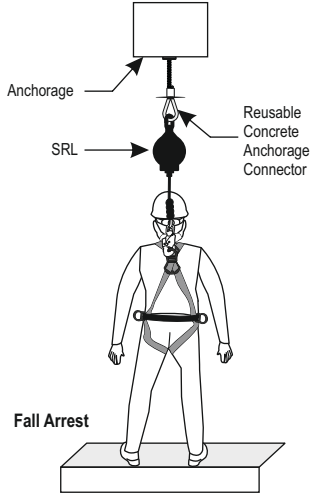


HOLE DRILLING REQUIREMENT CHART	
(A)\" Minimum distance from edge/corner	(B)\" Concrete thickness
6\" (15.3 cm)	12\" (30.5 cm)
12\" (30.5 cm)	5\" (12.7 cm)



With the help of trigger grip, one can get fast and easy operation for both installation and removal for added productivity designed for cured concrete with a compression strength of at least 3000 p.s.i.

To use as a Removable portable anchor point on both vertical and overhead surfaces, as well as in combination with horizontal lifelines, the EDGE Concrete Anchor has been designed.



7. INSTALLATION REQUIREMENTS: For safe effective installation of the Reusable Concrete Anchor, make sure to observe the following requirements:

- **Concrete:** A compressive strength of 3000 p.s.i. (20.7 MPa) is must for the concrete to secure the anchor. Do not use the Reusable Concrete Anchor in lightweight concrete, hollow block, grout, stone, wood, steel or any other substrate. The concrete base material must be at least 5 inches (12.7 cm) thick.
- **Mounting Hole Location:** The thickness and width of the concrete is considered to analyze the allowable distance for mounting the Reusable Concrete Anchor from an edge or corner. Mounting hole location requirements are as follows:

Concrete Thickness	Concrete Width	Minimum Mounting Distance from Edge/Corner
12 in (30.5 cm)	12 in (30.5 cm)	6 in (15.3 cm)
10 in (25.4 cm)	16 in (40.6 cm)	8 in (20.3 cm)
8 in (20.3 cm)	20 in (50.8 cm)	10 in (25.4 cm)
5 in (12.7 cm)	24 in (61 cm)	12 in (30.5 cm)

Note: Drill bits for drilling mounting holes must conform to ISO 5468 addressing carbide-tipped masonry drills and blanks for carbide-tipped masonry drills.

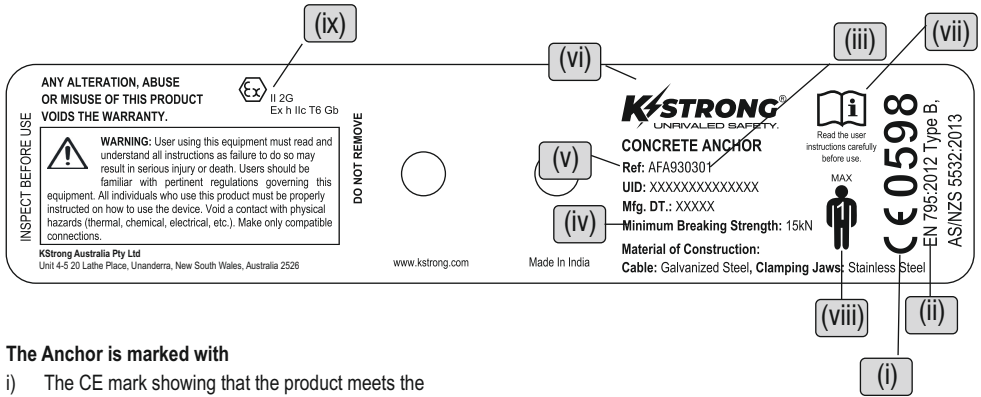
8. ANCHORAGE STRENGTH: Ensure that the structure on to which the anchor is fitted is strong enough to withstand a load of 20kN.

9. LIMITATION:

- It should be the personal property of its user.
- It should not be used in highly acid or basic environments.
- The equipment shall not be used out side its limitation, or for any purpose other than that for which it is intended.
- 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, for maintenance, for periodic examination and for repair in the language of the country in which product is to be used.
- It is advisable to use the dorsal attachment D-Ring of the harness for connection.
- A full body harness is the only acceptable body holding device that can be used in fall arrest system.
- Following conditions may be hazardous & may affect the performance of Anchor -
 - Extreme temperature.
 - Trailing or looping of Lanyards over sharp edges.
 - Extreme acidic or basic environments.
 - Abrasive or sharp edge structures which can damage the equipment.
 - Chemical Reagents.
 - Climatic exposure.
- When the equipment gets wet, either from being in use or when due to cleaning, it should be allowed to dry by itself and be kept away from open fire or any other source of heat.
- When 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 6 kN.
- Any dangers that may arise by the use of combinations of items of equipment in which the safe function of any one item is affected by or interferes with the safe function of another.
- Ensure that the harness and the Karabiner is connected to attachment elements of the harness; also ensure that harness has an attachment located appropriately to the fall arrester.

- It is essential for safety that the anchor device or anchor point should always be positioned, and the work carried out in such a way as to minimize both the potential for falls and potential fall distance. Where it is essential that the anchor device/point is placed above the position of the user, the manufacturer shall make a statement to that effect.
 - Standard packaging supplied from manufacturer should be used during transportation to protect the equipment against damage.
 - It is important to conduct regular periodic examination of the product because the safety of the user depends upon the continued efficiency and 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 effect on it eg. excessive rain, sea side environment, excessive heat etc.
 - Ensure that all markings on the product are legible and readable.
 - Anchor device is marked with the date of the last inspection.
 - The anchor device should only be used for personal fall protection equipment and not for lifting equipment.
 - Ensure that spring movement is well working .
 - Ensure all the parts are free from rust.
 - If there is any crack/damage/deformation shown on the product, it should be removed immediately from the service.
 - A rescue plan shall be in place to deal with any emergencies that could arise during the work.
 - 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.
- 10. COMPATIBILITY:** To optimize protection, in some instance it may be necessary to use the anchor with suitable PPE such as: boots/ gloves/ helmet and ear protection. 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.
- 11. REPAIR:** If the product becomes damaged, it will NOT provide the optimum level of protection, and therefore should be immediately removed from service. It needs to be inspected to see if it is replaced or repaired. Never use the damaged product. Repair is only permitted by the manufacturer or a nominated repair centre or individual approved by the manufacturer.
- 12. CLEANING AND MAINTENANCE:** In case of minor soiling, wipe the anchor with cotton cloth or a soft brush. Do not use any abrasive material. For intensive cleaning wash the anchor in water at a temperature between 30°C to 60°C by using a neutral detergent (pH 7). The washing temperature should not exceed 60°C. Do not use acid or basic detergents.
- 13. STORAGE AND TRANSPORT:** When not in use, store the anchor away from heavily acidic or basic environment. Never place heavy items on top of it. Store in cool dry place, preferably away from moisture, direct sunlight, chemically hazardous environment, extra acidic or basic conditions and sharp edges.
- 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 re-test.
- 15. WARNING:**
- 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.
 - It is important to conduct regular periodic examination of the product because the safety of the user depends upon the continued efficiency and durability of the product.
 - The periodic examination should be conducted by the competent person and strictly in accordance with the manufacturer's procedures.

MARKING



The Anchor is marked with

- i) The CE mark showing that the product meets the requirements of the PPE Regulation (EU)2016/425
- ii) The Standards
- iii) Type or product code
- iv) Minimum Breaking Strength
- v) UID for traceability of Product
- vi) Identification of the manufacturer
- vii) Read The Instruction Before Use.
- viii) For single user only
- ix) Atex marking.

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)

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

BSI Group ANZ Pty Ltd, Suite 1, Level 1, 54 Waterloo Road, Macquarie Park, NSW 2113, Australia.

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



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