

USER INSTRUCTION MANUAL
IRSQ RESCUE LADDER KIT

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:

AFX209020

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:** All users of this equipment must understand the instructions, operation, limitations and consequences of improper use of this equipment and be properly trained prior to use as per applicable local standards.

2. **TECHNICAL SPECIFICATIONS:**

Product Ref.	Product Name	Material of Construction	Weight	Ladder Length	Length of Rope	Min. Breaking Strength	Max. Load Capacity
AFX209020	Rescue Ladder	20mm polyester webbing having dia 11 mm Aluminium rod rung	4500gms ± 50gms	6 meter	15 mtrs	20kN	140 Kgs. (including clothing, tools, etc.)

3. **APPLICATION:** This Rescue Ladder System is designed for a conscious and capable user who has been involved in a fall to climb to safety. The rescuer simply attached the kit to an anchor and then deploys the ladder kit allowing the user to climb to safety.

4. **FEATURES OF THE SYSTEM:**

- Comprehensive system for easy access at height.
- Consists of Light weight ladder weighing about 1920 gms±10gms & has a minimum breaking strength of 20kN.
- The 6m ladder included in the system allows a victim to climb safely while the rescuer pulls rope slack through the rope grab included in the system eliminating the potential of a high impact secondary fall.
- This webbing rescue ladder is made of 20mm polyester webbing having 11mm diameter Aluminium rod rungs.
- Length of rope available: 7mtrs.
- Comes with easy back packable carrying bag.

IMPORTANT:

All persons using this equipment must read and understand all instructions. Failure to do so may result in serious injury or death. Users should be familiar with pertinent regulations governing this equipment. All individuals who use this product must be properly instructed on how to use this device.

5. **CAREFULLY READ THESE INSTRUCTIONS BEFORE USING THIS RESCUE SYSTEM:**

- User Instructions must always be available to the user and are not to be removed except by the user of this equipment. For proper use, see supervisor, User Instructions, or contact the manufacturer.
- Before using a rescue system, users must be trained by a KStrong Representative or Authorized Training centre.
- Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest.
- Users and purchasers of this equipment must read and understand the User Instructions provided for correct use and care of this product.
- All users of this equipment must understand the instructions, operation, limitations and consequences of improper use of this equipment and be properly trained prior to use.
- Misuse or failure to follow warnings and instructions may result in serious personal injury or death.

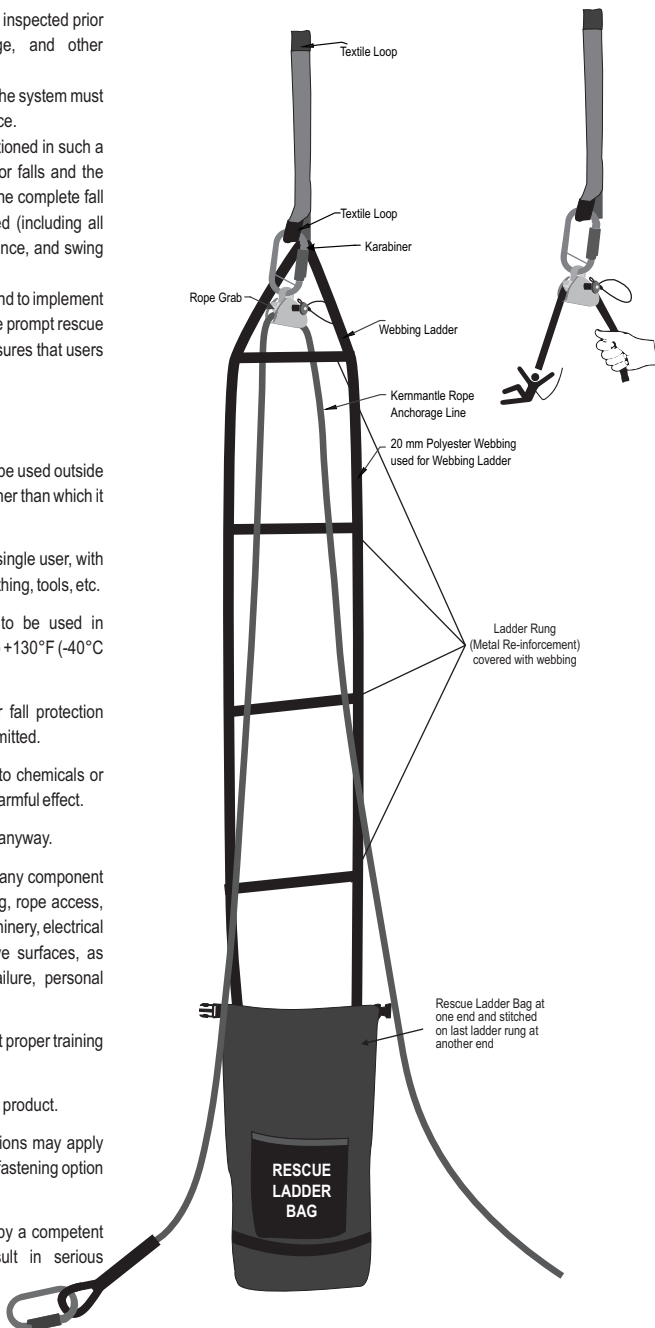
6. **INSTRUCTIONS FOR USAGE :**

- A user must be qualified to properly and safely use this equipment in normal and emergency situations.
- Before using a rescue system, user must be trained in accordance with the requirements in the safe use of the system and its components.
- Use only with EN or ANZI compliant personal fall arrest or restraint systems.
- The anchorage must have the strength capable of supporting a static load, applied in the directions permitted by the system of at least 12kN in the absence of certification.
- The user shall be equipped with a means of limiting forces exerted on this product to static loads at or below 140kg.
- Use of this product must be approved by a competent person to be compatible with any and all structural & operational characteristics of the selected installation location and system to be connected to this Rescue system.

- The rescue ladder system must be inspected prior to each use for wear, damage, and other deterioration.
- If defective components are found the system must be immediately removed from service.
- The rescue system should be positioned in such a way that minimizes the potential for falls and the potential fall distance during use, the complete fall protection system must be planned (including all components, calculating fall clearance, and swing fall) before using.
- A rescue plan, and the means at hand to implement it, must be in place that provides the prompt rescue of users in the event of a fall, or assures that users are able to rescue themselves.

7. LIMITATIONS OF USAGE:

- The rescue ladder system shall not be used outside its limitations, or for any purpose other than which it is intended.
- The rescue system is designed for single user, with a capacity up to 140kg including clothing, tools, etc.
- The rescue system is designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
- Do not use the rescue system for fall protection purposes. Only static loading is permitted.
- Do not expose the rescue system to chemicals or harsh solutions which may have a harmful effect.
- Do not alter or modify this product in anyway.
- Caution must be taken when using any component of a fall protection, work positioning, rope access, or rescue system near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
- Do not use/install equipment without proper training by a "competent person".
- Do not remove the labelling from this product.
- Additional requirements and limitations may apply depending on anchorage type and fastening option utilized for installation.
- All placements must be approved by a competent person. Improper use may result in serious personal injury or death.



08. METHOD FOR USAGE:

Step 1: Rescuer must follow all personal fall protection guidelines per their governing body.

- Check fall victim for consciousness. (Worker must verbally respond and be uninjured and able to climb.)
- If worker is injured or unconscious a trained rescue response team must perform rescue and use proper equipment.)
- If worker is conscious know how and where the ladder will be deployed.

Step 2: Anchoring-

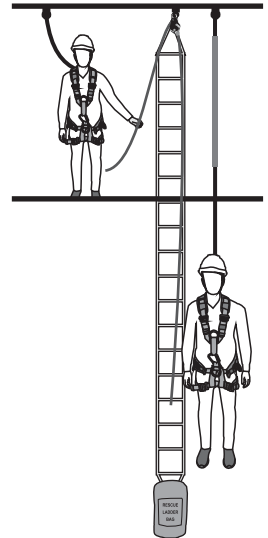
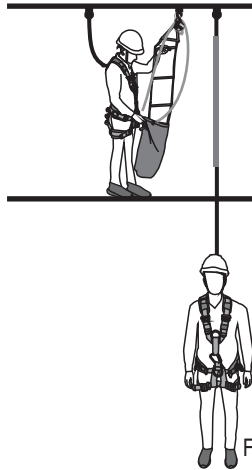
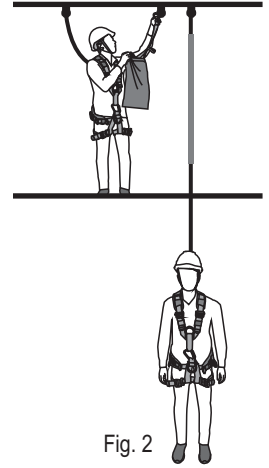
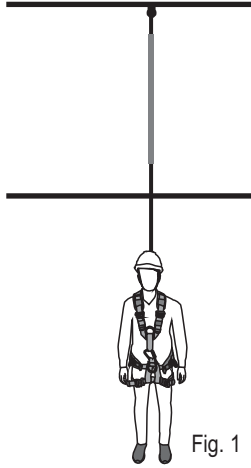
- If anchor is damaged use the nearest anchor that allows the ladder to be within close proximity of victim after deployed.
- **Warning:** Anchor or anchoring location must be able to support 12kN. Use only an approved anchorage.

Step 3: Deployment

- Once the rescue ladder system is anchored, drop the bag to deploy the Rescue Ladder.
- Avoid hitting the fall victim while deploying the ladder.
- For ease of use, have victim climb in direct line of rope grab.

Step 4: Recovery

- Instruct fall victim to attach the rope end karabiner to the D-ring of their harness.
- Do not remove original fall protection restraint.
- Once the fall victim is on the ladder rescuer must remove excess slack by pulling rope through the rope grab device.
- Do not attempt to hoist the fall victim but always keep rope taut as worker climbs the Rescue Ladder.
- Continuously remove slack as victim climbs rope ladder. (to prevent high impact secondary fall).



09. STORAGE AND TRANSPORT:

- When not in use, store the rescue system 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 out of direct sunlight and free of corrosive or other degrading elements.

10. REPAIR:

- If the product becomes damaged, it will NOT provide the optimum level of protection, and therefore should be immediately either replaced or repaired.
- 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.

11. CLEANING & MAINTENANCE: The Rescue Ladder should be stored in dry, not too hot rooms, kept away from heaters and corrosive substances and protected against direct sunlight. In case of minor soiling, wipe the ladder with cotton cloth or a soft brush. Do not use any corrosive chemicals that could damage the product. Use compressed air to clean only.

12. WITHDRAWAL FROM USE:

- A plan must be in place to ensure that the rescue ladder remains in good working condition throughout the life of the product.
- This should include but not be limited to long term storage with or without use.
- If the system has been used to rescue a victim of fall, it should be inspected carefully by the competent user & should be sent to repair centre for servicing and retest if it's required.

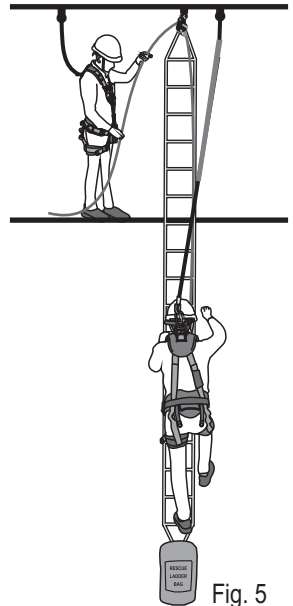


Fig. 5

13. **HOW TO DISPOSE A RESCUE LADDER:** When the system seems to have completed its life & have become unfit or in case of any wear and tear, it's required to dispose immediately.

Follow the steps for Disposal:

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

14. **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 manufacturer & duly authorized by him.

15. **MARKING ON PRODUCT:**

A) Marking on Rescue Ladder: The Rescue Ladder is marked with:

- (i) Identification of the manufacturer
- (ii) Type or product code
- (iii) UID for Traceability
- (iv) Address of the manufacturer
- (v) Month and Year of Manufacturing
- (vi) Material

MARKING ON LADDER

KSTRONG®
UNRIVALED SAFETY.
**WEBBING
RESCUE LADDER**



(i) —

(ii) — Model : AFX209019

(v) — DOM : MM/YYYY

(vi) — Material : Polyester

(iii) — UID : XXXXXXXXXXXX



Max. Rated Load
(Including all tools)

QR CODE

(iv) — **KStrong Inc.,**
150 N. Radnor Chester Road Suite F200 Radnor,
Pennsylvania 19087 United States
KStrong.com Made In India

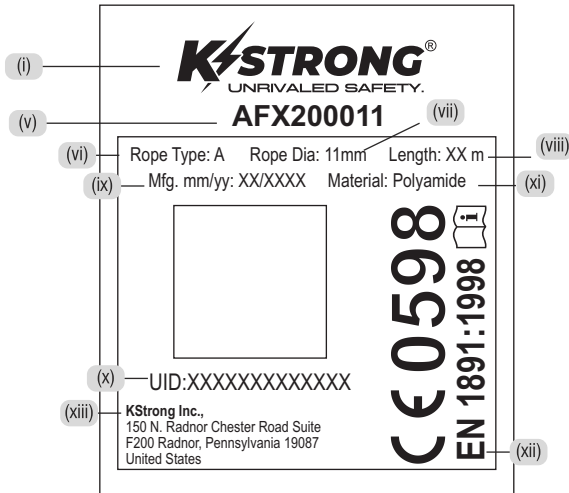
B. Marking on Rope: Kernmantle ropes are marked externally at both ends using a Tape not having a harmful effect on the rope material.

- (i) Trademark of the manufacturer
- (ii) The CE mark showing that the rope meets the requirements of the European PPE Regulation (EU) 2016/425
- (iii) Number of ongoing assessment body
- (iv) Pictogram to indicate the necessity for users to read the instruction for use
- (v) Model Ref. No.
- (vi) **Rope Type** : The letter A signifies rope type that is suitable for use by persons in rope access including all kinds of work positioning and restraint, rescue & speleology.
- (vii) **Rope Dia** : The letter A is followed by (Ø), the diameter of the rope in mm.
- (viii) Rope Length
- (ix) Month and Year of Manufacturing
- (x) UID for traceability
- (xi) Material
- (xii) Number & Year of the European Standard
- (xiii) Manufactures Name & Address

C. Marking on BOPP Tape: Every rope is provided with a BOPP band running through entire length of rope and having following markings repeated every 1000mm.

Cut length of the equipment should be marked as described in marking section.

- (i) Type of rope- A (Ø) where Ø is the diameter of the equipment.
- (ii) The number of the standard EN1891:1998.
- (iii) Trademark of the manufacturer i.e KStrong.
- (iv) Year of manufacture in YYYY format for the year
- (v) Material of the equipment.
- (vi) Ongoing Assessment Body and conforming to the European PPE Regulation (EU) 2016/425.



Artwork of Marking on BOPP Tape

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

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



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