



USER INSTRUCTION MANUAL
**BRUTE SEALED RETRACTABLE
FALL ARRESTER BLOCK**

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODELS:

AFS570010, AFS570020 and AFS570030

CE 0598
EN 360:2002



II 2G
Ex h IIC T6 Gb

EN 80079-36:2016
EN 80079-37:2016

IEC 60068-2-6:2007
EN 80079-36:2016
EN 80079-37:2016

CERTIFIED PRODUCT



AUSTRALIA & NZ STANDARDS
Certified to AS/NZS 1891.3:2020
Issued by BSI
Vide Lic. No.: BMP 777809

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.

KStrong Sealed Retractable Fall Arrester Blocks are classed as a Personal Protective Equipment (PPE) by the European PPE Regulation (EU) 2016/425 and has shown to comply with this Directive through the Harmonized European Standard EN 360:2002.

Also Compliance with the essential health and safety requirements has been assured by compliance with EN ISO 80079-36:2016, EN ISO 80079-37:2016.

The Sealed Fall Arrest Blocks have been 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.

1. PERFORMANCE AND LIMITATIONS OF USE :

The equipment has been tested in accordance with EN 360:2002 and has achieved the following performance levels:

EN 360:2002 test	Result/Comment
Clause 4.1 Design & Ergonomics	Achieves required performance as stated in EN 360:2002 (PASS). Lanyard free from sharp or excessively abrasive surface (PASS). No unnecessary features which add significantly to overall mass (PASS).
Clause 4.2 Materials & Construction	Lanyard end terminated with a loop, for connection to harness and fall arrest system (PASS). Lanyard meets static strength requirement (PASS).
Clause 4.4 Static Strength(EN 364:1993)	12kN sustained for 3 minutes without failure (Wire) (PASS). 15kN sustained for 3 minutes without failure (Webbing) (PASS).
Clause 4.5 Dynamic Performance (EN 364:1993)	When tested with the test mass of 100kg, The Arrest force <6.00 kN, Arrest distance <2.00 m (PASS).
Clause 4.7 Corrosion Resistance (EN 364:1993)	Corrosion test in accordance with ISO 9227:1990-24 hours (PASS).

The Sealed Retractable Fall Arrester Blocks also meet IP69K level of ingress protection as per IEC 60529. Hence, it is best suited for oil & gas industries and off shore areas.

Test Method	Requirement	Test Result / Observation
ISO 20653	9K Water during High Pressure/Steam jet cleaning: i) Type of Nozzle: Fan jet Nozzle, ii) Mounting of Enclosure: Enclosure on turn table, iii) Speed of Rotation of Turn, table:- 5rpm/min, iv) Spray Angle at 0,30,60,and 90 degree angle, v) Spray Distance from Nozzle to DUT Enclosure:- 100mm to 150mm. vi) Water flow: 14 L/min to 16 L/min, vii) Water pressure: 8000 to 10,000 kPa, viii) Water Temperature:- 80+-5°C, ix) Test Requirements:- Water which is directed against the enclosure from any direction shall not have any detrimental effect.	No any ingress of water observed in-side the enclosure of the DUT. Protection of the enclosure for the Numeral 9K found satisfactory.

Table for IEC 60529

Test	Results/Comments
IP6X	When subjected inside a closed chamber with talcum powder 2kg per cubic meter of test chamber volume, no deposit of dust is observed inside the product at the end of test.
IPX8	When submerged under the water at a depth of 1 meter for 24hrs, no ingress of water is observed inside the product at the end of the test

Test Conducted	Requirement	Test Result / Observation
Vibration Test IEC 60068-2-6	Sine Vibration Test shall be tested as per IEC 60068-2-6:2007	PASS

2. POSSIBLE USAGE:

The Sealed Fall Arrest Blocks can be used as a part of a fall arrest system or as a part of a restraint system. If using as a part of fall arrest system, a suitable anchor point (above the user's head, at least 12kN) shall be used. Attachments to the anchor points and other equipment shall be made using oval karabiners to EN 362. The equipment is to be used specifically in vertical condition.

- **Material of the lanyard** - Material of lanyard is Ø 4.5mm Stainless Steel wire rope.

3. HOW TO USE:

STEP 1: Connect the anchorage eye at the top of the Sealed Retractable Fall Arrester Block to a suitable anchorage point situated above the user's head using karabiners as per EN 362 & ensure the karabiner is locked.

STEP 2: Now connect the swivel hook of the equipment to the attachment element of your full body harness and ensure that it is locked. You are now safe to move up & down in normal speed. In the event of a fall, the Sealed Retractable Fall Arrester Block locks & also minimizes the impact forces on the body of user.

4. WARNING :

- Ensure that the medical condition of the user does not affect his/her safety in normal and emergency use.
- The Sealed Retractable Fall Arrester Block must only be used by a person trained and competent in its safe use.
- A rescue plan must be in place to deal with any emergencies that could arise during the work.
- Do not make any alterations or additions to the Sealed Retractable Fall Arrester Block without the manufacturer's prior written consent and that any repair shall only be carried out by personnel trained by the manufacturer & duly authorized by him.
- The Sealed Retractable Fall Arrester Block must not be used outside its limitation, or for any purpose other than that for which it is intended.
- Periodic examination shall only be conducted by the manufacturer or organization authorized by the manufacturer due to the complexity of the equipment.
- User must check for the legibility of product marking before each and every use.
- Only the models with the Ⓢ marking on the product itself are suitable for use in an Explosive Atmosphere.

5. ADVICE & INFORMATION :

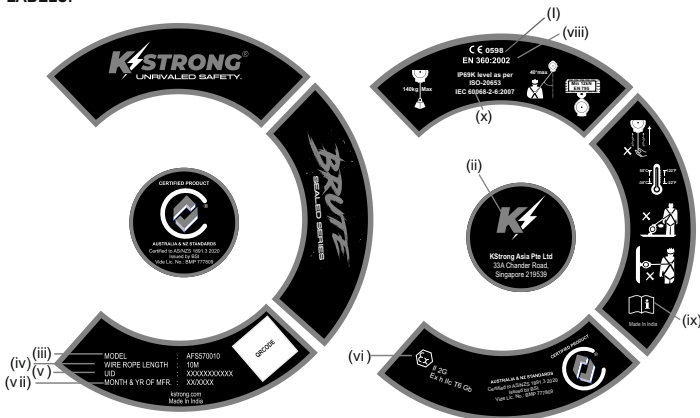
- The Sealed Retractable Fall Arrester Block should be the personal property of the user.
- Ensure that the Sealed Retractable Fall Arrester Block is compatible with other items when assembled into a system.
- Usage with other non-compatible items may be dangerous & hazardous as the safe function of one item may be affected or interferes with the safe function of another.
- The user must carry out a pre-use check of the Sealed Retractable Fall Arrester Block, to ensure that it is in a serviceable condition and operates correctly before it is used.
- The pre-use check shall involve checking of any wear or abrasion on wire ropes/webbing and sign of corrosion if any, on metal parts or any breakage of the casing.

- Withdraw from use immediately if there is any doubt about its safe condition or if it has already arrested a fall, the equipment shall not be used again until confirmed in writing by a competent person that it is acceptable to do so.
- Ensure that the strength of the anchor device is greater than 12kN.
- Use karabiner conforming to EN 362 for connecting to the anchor points.
- It is advisable to use the dorsal attachment D-Ring of the harness for connection to the Sealed Retractable Fall Arrester Block.
- However if it is not possible for any reason, the chest attachment element may also be used.
- It is essential to verify that a minimum 4mts height of free space is available below the user's feet & the ground level at the work place, so that in case of a fall, there will be no collision with the ground or other obstacle in the fall path.
- Following conditions may be hazardous & may affect the performance of Sealed Retractable Fall Arrester Block:
 - 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.
 - Pendulum falls.
- 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.
- It is essential for the safety of the user that if the product is resold outside the original country of destination, the reseller shall provide instruction for use, maintenance, periodic examination and repair in the language of the country in which product is to be used.
- This is advised that Annual Inspection should be done by competent person & if any discrepancy is found in product, then the service will be done at KStrong authorized service center only.

6. INSTRUCTION FOR MAINTENANCE : Follow the maintenance instructions procedure laid below strictly.

- In case of minor soiling, wipe the equipment with cotton cloth or soft brush. Do not use any abrasive material.
- For intensive cleaning wash in water at a temperature between 25°C to 50°C using a neutral detergent. It should be allowed to dry by itself and be kept away from open fire or any other source of heat.
- Store in cool dry place, preferably away from moisture, direct sunlight, extra acidic or basic conditions & sharp edges.
- The component of complete system shall not be substituted.
- A full body harness is the only acceptable body holding device that can be used in a fall arrest system.
- This is advised that Annual Inspection should be done by competent person strictly in accordance with manufacturers periodic examination procedure & if found any discrepancy in product, service will be done at authorized service center only.
- Safety of users depend upon the continued efficiency and durability of the equipment.

LABELS:



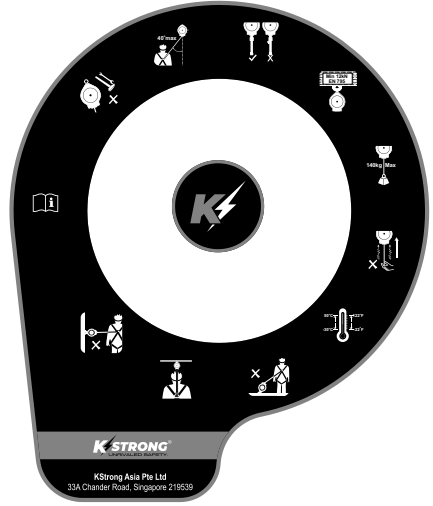
MARKING EXPLANATION:

The Sealed Retractable Fall Arrester Block is marked with:

- (i) The CE mark showing that the product meets the requirements of the PPE Regulation (EU)2016/425
- (ii) Identification & address of manufacturer's
- (iii) Type or product code
- (iv) Wire/ Rope Length
- (v) UID for traceability
- (vi) Atex Certification
- (vii) Month/Year of Manufacture
- (viii) Norm & Year
- (ix) Read the instruction before use
- (x) Complies with IP69K level as per IEC 60529



AFS570020



AFS570030



ICON EXPLANATION

Ensure that the anchorage point has strength of min 12kN.



Ensure that the max angle between the vertical & the lanyard is 40°.



Ensure that wire rope has no cuts or abrasion marks before use.



Once the wire rope has been reeled out, do not leave it suddenly to retract inside on its own, let it go inside gradually by guiding it slowly inside.



Do not use for horizontal applications.



Connect the lanyard to the Dorsal attachment element of your harness.



Use between temperature range of -30°C to +50°C.



To be used by person weighing upto 140 kgs.



Do not attempt repair unless trained by the manufacturer.



Do not use this block at foot level application.

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



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