



EN362(B)
 EN12275(B)
 CE 2777
 CE 0321
 CE 1019
 UK 0321
 CA 0321

Supplied by:
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Type approval & Ongoing Assessment
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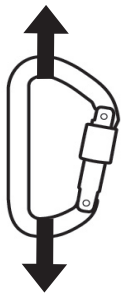
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Introduction

heightec connectors are designed for use as a part of a personal fall protection system, including; fall arrest, work positioning, work restraint, rescue and climbing. These products are designed for work at height in an environment that is inherently dangerous. The consequences of incorrect selection, use or maintenance of equipment could result in damage, serious injury or death.

heightec Product Code	EN Standard	(mm)	Material	Notified / Approved Body Number
CKA1	EN 12275:2013	21	Aluminium Alloy	NB1019
CKA2	EN 362:2004/B	22	Aluminium Alloy	NB2777
CKA3	EN 362:2004/B	22	Aluminium Alloy	NB2777
CKA4	EN 362:2004/B	16	Aluminium Alloy	NB1019
CKA5	EN 362:2004/B	19	Aluminium Alloy	NB1019
CKS0	EN 362:2004/B	18	Steel	NB1019
CH06	EN 362:2004/B	54	Aluminium Alloy	NB2777
CKA61	EN 362:2004(T)	23	Aluminium Alloy	NB2777
CKA62	EN 362:2004(T)	23	Aluminium Alloy	NB2777 + AB0321
CKS3	EN 362:2004/B	25	Steel	NB0321
CKS4	EN 362:2004/B	24	Steel	NB1019



Before each use:

- Check the gate action by releasing it slowly and ensuring it fully & automatically closes - if it does not DO NOT USE
- Check the locking system closes fully - if it does not DO NOT USE
- Check screwgate by manually screwing and unscrewing completely

Markings

In addition to the notes on the reverse, the connector has the following markings:

mmYY
 or
 YYXX
 Batch Number- month/Year
 or
 Year of manufacture - Batch Number



Minimum strength for Major Axis (kN)
 Gate closed and locked loading

CKA1 Connectors will also have the following markings:



Minimum strength for Minor Axis (kN)



Minimum strength for Major Axis (kN)
 Gate open

Warnings

- Only use when fully closed and fully locked
- Do not load gate
- Do not cross load
- Ensure other devices are not levering against the gate
- Multiple connections or wide slings may reduce the strength of the connector

Use

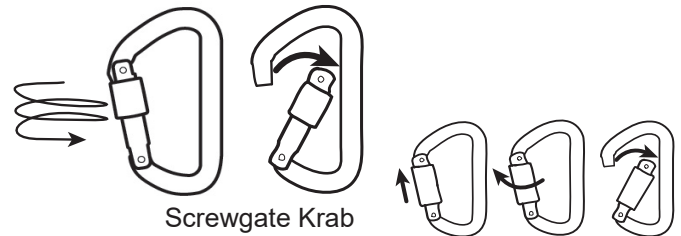
The connector should only be loaded along its major axis and should always be used with the gate closed and fully locked. It should be free to move without; external stress, constraint or support. Avoid loading across its gate and avoid cross-loading, as this will greatly reduce the strength of the connector.

The connector can be unlocked, opened, closed and locked with one hand. Always check the gate is fully locked before use.

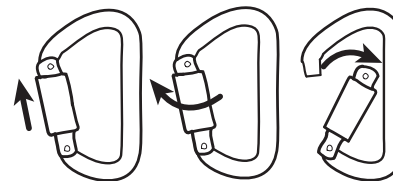
Ensure other devices, such as descenders, do not apply leverage against the gate of the connector as this may damage the locking sleeve allowing the connector to open.

Screwgate models (CKA1, CKA2, CKA4, CKS0) are recommended for uses where they do not have to be frequently attached and removed.

The length of this connector should be taken into account when being used within a fall arrest system as it will influence the length of a fall.



Screwgate Krab



Triple Action Krab

Twistlock Krab

Although metal items can have an infinite life span (see overleaf) it is unlikely that a connector will last more than 10 years and this may be significantly shorter dependant on use.

Inspection

Refer to the general inspection notes on the reverse of these user instructions. Additionally, if any of the following specific defects are present, the connector should be immediately & permanently withdrawn from use:

- Deep corrosion (is not removed by light rubbing with sand paper)
- Play or absence of the rivet gate
- Poor fit of the gate to the body
- Play or absence of the locking sleeve
- Wear, corrosion or damage causing a loss of section greater than 1mm deep
- Cracks (especially in locking sleeve)

Failure to close or lock fully may be due to contaminants such as; mud, sand, paint or ice. After cleaning the connector lubricate the mechanisms with a silicon based lubricant and re-inspect as above. Cleaning and lubrication should be undertaken after any use in a marine environment. If the defect is still present after cleaning and lubricating, the connector should be immediately & permanently withdrawn from use.

1 - Personal issue and traceability:

If this product is classed as personal protective equipment it should be individually issued to the person who will be using it. The product should remain traceable to the original certificate of conformity and a permanent record should be kept of its use. This user instruction forms part of the permanent product record. All users must receive and read a copy of these instructions and should understand what the instructions mean and be familiar with them, including, but not limited to function, suitability, compatibility of the product and inspection for defects arising from damage. A copy of this user instruction should be kept with the equipment, and referred to before and after each use. In the event of a rescue, these instructions should be provided to the rescuer.

2a - Anchor Points:

The anchor device or anchor point used should be of sufficient strength to sustain foreseeable loads in all permitted directions. Specific standards requirements:
EN: Anchor device should conform to EN795, with minimum static strength of 12kN. heightec recommend a higher strength of 15kN as specified in the IRATA ICOP and BS7985.
When more than one system is attached to an anchorage, these strengths should be multiplied by the number of systems. Anchorages should be positioned to minimise the potential for falls, and the distance and consequences of any potential fall, ideally above the user. Verify there is sufficient free space beneath the user to avoid collision with the ground or other obstacles and minimise sideways or pendulum falls. The connecting system instructions should give advice on clearance required, but a fall arrest energy absorber may extend by up to 1.75m.

2b - Further Requirements for Anchor Points in US (ANSI):

ANSI: (a) where certified, twice the maximum arrest force, or (b) where not certified 22.2kN (5,000lbf) for fall arrest, 13.3kN (3,000lbf) for work positioning, or 4.5kN (1,000lbf) for restraint. When designing, selecting, and certifying a fall arrest anchorage, the qualified person shall include the limitations on use of the system in fall protection procedures described in ANSI Z359.2. Design, selection and installation of certified fall arrest anchorages shall include determining a safe location where and how to connect those anchorages by taking into consideration the forces generated by arresting a fall, total existing and anticipated loading, load path, structural member strengths, connection and support strengths, stability, clearance requirements, swing fall, rescue deflection of the system, and impact on the structural members to which the fall arrest system is attached.

Anchorage selected for rescue systems shall have a strength capable of sustaining static loads, applied in the directions permitted by the rescue system of at least 3,100lbf for connection of rescue system only, or meet a Factor of Safety of 5:1 based on the static load placed on the system when the system is designed, installed and used under the supervision of a qualified person.

Persons engaged in rescue operations that are exposed to a fall hazard, must be provided an anchorage suitable for fall arrest in accordance with ANSI Z359.1.

Anchorage connectors shall not be attached to anchorages where such attachment would reduce the anchorage system strength below the applicable level set forth above or reduce the anchorage strength below the allowable level set by applicable structural codes. A suitable anchorage connector shall be used for rigging the connection of lanyards and lifelines to structural members. A lanyard shall not be connected back onto itself for use as an anchorage connector unless specifically designed for this purpose.

Anchorage connections shall be stabilised to prevent unwanted movement or disengagement of the rescue system from the anchorage. Verify system connections by pre-tensioning the system before applying the intended load. Other components used in fall protection or work positioning systems must conform to the relevant standards, be compatible with each other and be used in accordance with their user instructions.

3a - Inspection and care:

The strength of this product may be affected by cuts, nicks, deep scratches, wear, abrasion, deformation, chemical contamination, UV degradation, exposure to flame, extreme temperatures and other factors. Keep this equipment away from such sources of damage. Use this product with caution near moving machinery, electrical hazards, sharp edges and abrasive surfaces. This product must be inspected before and after use, and particularly after being used for rescue, to ensure the product is in a suitable condition and operates correctly. Written records should be kept of all inspections.

If there is any doubt about condition of the product, or it has been subjected to a fall or substantial shock load, withdraw it from use until confirmed to be safe, in writing, by a person deemed to be competent by The heightec Group.

No repairs of this product should be undertaken, any attempt to do so may invalidate it's compliance and/ or certification.

The safety of users depends upon the continued efficiency and durability of this equipment, which must subjected to detailed visual and tactile examination by a competent person* at intervals of no greater than 6 months for textiles or 12 months for metals, taking into account relevant legislation, equipment type, frequency of use and environmental conditions. These examinations should be carried out strictly in accordance with the manufacturer's periodic examination procedures. Detailed examinations should include confirmation of the legibility of product markings.

*A competent person may be defined as someone who "...has appropriate theoretical and practical knowledge and experience..."

The results of examinations should be recorded. Intermittent inspections of components which may be subject to excessive wear may also be appropriate. The results of these need not be recorded. It is recommended that this product is marked with the date of the next or last inspection. Contact your distributor for information on suitable inspection procedures.

3b - Inspection criteria:

Textile products or elements: check material and stitching for damage including cuts, nicks, abrasion, fraying, discolouration, heat or chemical damage etc. Ensure stoppers are present on ends of adjustment webbing.

Metal devices or components: check for damage, corrosion, excessive tightness, sharp edges, excessive play, deformation, cracking or anything that might affect strength. Check security and correct operation of any moving parts e.g. side plates, return action of springs, cams, operating handles, bearings. Check function of closure mechanisms, where present (e.g. screwlink thread, connector gates).

3c - Cleaning, maintenance and storage:

Wash textiles by hand with non-detergent soap at approx 25°C (cool). Rinse and dry naturally, away from direct sources of heat and sunlight. If necessary use a disinfectant compatible with polyamide and polyester. Use diluted and rinse thoroughly in clean water. Dry as previously stated. These cleaning procedures must be strictly adhered to. Mechanical metal products with moving parts should be occasionally oiled, at bearings or pivot points, with excess oil removed. Store and transport in a dry, clean condition, away from sources of severe vibration, humidity, direct heat, sunlight and any physical or chemical contaminants.

4 - Lifespan:

Textile products or elements: maximum 10 year lifespan from date of manufacture, subject to competent use, maintenance and examination programme.

Metal products: indefinite lifespan, subject to competent use, care and examination programme. The lifespan of all products will be reduced by normal wear and tear, particularly when used in abrasive or corrosive environments. In extreme circumstances, the life of an item may be reduced to a single use.

5a - General usage:

Users should be suitably trained and competent to work in situations where a risk of falling may be present or under the direct supervision of such a person, fully trained in the use of this product and free of medical contra-indications for work at height or rescue. Do not use this product outside of its limitations or if you are unsure of any aspect of its use. No alterations or additions may be made to the product. The heightec Group do not take any responsibility for injury or accident of any kind arising from the use of this product.

INSPECTION RECORDS		ID Number:			
Product:		PO/ Certificate No.:			
Model/Type:		Purchase Date:			
Manufacture Date:		First Use Date:			
Date	Observations / Comments	Actions	Inspector	Next Due	

It is essential a rescue plan is in place to deal with emergencies and in particular to consider treatment and recovery of a fallen or suspended person. Rescue equipment must be present and personnel should be competent in its use. Orthostatic intolerance can occur when a person is suspended motionless in a harness, and is potentially fatal. Ensure that the rescue of a suspended person is carried-out promptly. Contamination with oils, lubricants, water or solvents may alter the performance of the product. For rope devices behaviour will vary according to the age, type, diameter and characteristics of the rope used.

5b - Care of rope during use:

Take any steps necessary to protect the rope from damage during use, including rope protectors, edge protectors, intermediate anchor points or deviations to avoid sharp or rough edges. Consider also the position of the rope below the user. Ensure rope cannot suffer from the effects of wind, or become trapped around obstacles.

6 - Guarantee:

This product is guaranteed for three years against faults arising from manufacturing errors or materials defects. This guarantee does not include normal wear and tear, faults arising from uses for which the product was not designed and accidental damage.

7 - Notes:


If this product is re-sold outside the original country of destination the reseller shall provide these instructions in the language of the country in which the product is to be used.


Markings:


The following markings may be present on the product:

 UKCA mark - UK Conformity

 CE mark - European Conformity.

 Read these instructions before use.

 For use with kernmantel ropes conforming to EN1891 type A

 XX-YY - Diameter range of rope which this product may be used, in mm

 Direction of use

Date of manufacture is marked on the product in the form: DAY MONTH YEAR, DDDMMYY eg.120510.

The ID no. is unique to this item. Do not remove or obscure the product labels or markings. Unique ID should be read in conjunction with product code and batch number e.g. D01 120510 123