

RED™ Rotational Braking Back-up Device.

General

ISC equipment and components for prevention of falls from height meet or exceed recognised European, American or other International standards. A multi-language user instruction manual should accompany this product. It is the users responsibility to read and understand these instructions before use.

WARNING - Activities involving the use of this equipment are inherently dangerous – this equipment should only be used by a competent person or a person specifically trained in its use who is under the direct supervision of a competent person.

Responsibility

It is the user's responsibility to ensure understanding of the correct safe use of this equipment, to use it only for the purposes for which it is designed, and to practise all proper safety procedures. It is mandatory that a Risk Assessment be carried out prior to any use and a rescue plan be in place for any work at height. Do not exceed loads either specified by the manufacturer or loads derived from the specified MBS using a recognised factor of safety. Do not under any circumstances modify the product as alterations may render it ineffective.

Compatibility

Always ensure that all components within a safety system are compatible and allow the system to function safely.

Use Inspection

Immediately before, during and after use make visual inspections of the product to ensure that it is in a serviceable condition and is operating correctly.

Use Requirements

It is recommended that the viability of any installation should be verified by a suitably qualified person. Extreme care should be taken when using this product near harmful chemicals, moving machinery, electrical hazards and near sharp edges and abrasive surfaces. Wet and icy conditions may cause the rope to become slippery.

Testing

All testing at ISC and the Notified body, has been carried out on Marlow 10.5 and 11mm LSK rope, using an 800mm (including connectors) cows-tail made from 11mm Marlow dynamic rope, with double over-hand knots at either end producing loops. For RESCUE loads tests were carried out with 240kg mass and 400mm cows-tail.

The use of these cows-tails means there is no requirement for an additional shock absorber. Please see our separate datasheet containing test results of varying fall distances.

Figure 1 – Installation

1a -Installation on rope

Swing the front plate through 180°
Insert the rope, paying particular attention to the direction of the markings.

WARNING – RED™ is a directional device and locks in only one direction.

DO NOT INSTALL DEVICE UPSIDE DOWN.

1b - Installation on rope

Close front frame – reverse of opening.
Attach connector, approved to EN362:2004, through holes on front and back frame.

WARNING – Ensure device is closed and frames cannot be rotated with connector attached.

Figure 2 – Operational check

2a - Before each use, to verify the correct installation on the rope, a test must be carried out. Move the device up and down the rope. It must slide smoothly and easily. Ensure the device self-parks (stays in position when released).

2b – Test the locking on the rope by tugging sharply in the direction of a fall – ensure the device locks.

WARNING – RED™ is a directional device and locks in only one direction.

DO NOT INSTALL DEVICE UPSIDE DOWN.

Figure 3 – Removal

The removal of the device is the reverse of installation.

Figure 4 – Clearance

The strength of all anchors must be at least as great as that of the terminated ropes attached to them, and not less than 15kN (BS7985:2002). The anchor should be positioned above the user such that the free movement of the system and the fall path is unobstructed. Work as close to directly below the anchor point as is possible to avoid swing-fall injury (pendulum effect). When using 800mm cows-tail (including connectors) the clearance below the user's feet must be 3.6m to avoid collision with a structure or the ground in the event of a fall from height.

Figure 5 – Towing

The RED™ backup device can be used with a tow cord, a tow cord with detachable popper™ or without a tow cord. It is the responsibility of the user to carry out a risk assessment and determine which method of towing is best for their application. When using a fixed cord, it should be towed between index finger and thumb. When using the popper™ it should be towed between index and middle finger. It is important that the user does not descend out of reach of the RED™ backup device.

WARNING – Industry best practice dictates that the RED™ backup device shall never be lower than the main descending device or the users' sternum, whichever is the higher.

Product Inspection & Maintenance

In addition to the visual inspections (see Inspection) a thorough examination should be carried out by a competent person in line with applicable legislation and the intensity and environment of use. ISC recommends a thorough examination at least every twelve months. The product should be immediately withdrawn from use and not used again until confirmed in writing by a competent person that it is safe to do so, should any doubt arise about its condition for safe use or, if it has been used to arrest a fall. Extreme temperatures and the effects of chemicals, rust, cuts and abrasions could affect the performance of the equipment. Defective equipment shall be put beyond use to ensure it is not used as safety equipment.

Modifications, repair

There are no serviceable parts on the RED™ device except for the popper and tow cord. If required, repair or replacement of these items should only be carried out by the manufacturer or its recognised repair agent.

Cleaning

The product must be cleaned regularly (or after every use in a marine environment) with a mild detergent. Afterwards the product should be rinsed in clean water and allowed to dry naturally. Alternatively an air gun can be used to clear debris from device. Moving parts may be oiled regularly with a light oil such as 3-in-1. A small drop may be applied to the spring hole on the side frame. Remove all excess oil from the device, with a soft rag/cloth, before use .

Storage & Transportation

The product should be stored in a clean, dry environment away from exposure to UV, corrosive or chemical substances or extreme heat sources. Care should be taken to protect the product against damage during transportation.

Manufacturers' responsibility

The manufacturer or distributor will not be held responsible for any eventual damages, injuries or death resulting from an improper use of this equipment. If there is any doubt about the compatibility of the products you have chosen please consult the manufacturer

Approvals- Declaration of Conformity

The RED™ backup device has been tested and approved by SATRA, notified body number CE0321, in accordance with EN12841:2006 with a maximum rated load of 140kg and is subject to the procedures set out in Article 11b of Directive 89/686/EEC under the supervision of SGS UK Ltd., Unit 202b, Worle Parkway, Weston-super-mare. BS22 6WA., notified body number 0120.