

D4™ Rope adjustment 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. Inspect the top bobbin for wear. There is a wear indicator (brass insert) present, and if that becomes visible then the device should be removed from use and disposed of (Fig 2). Pay attention to the locking button to ensure it is functioning correctly—you will hear an audible 'click' when the frame seats correctly. Check the frames are aligned. Check the handle rotates freely and check the interaction of the cam and handle is fully functional.

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 for this device at ISC and the Notified body, has been carried out using EN1891 approved ropes Ø10.5mm - 11.5mm rope. Suitable for rescue loads up to 240kg.

Modifications, repair

There are no serviceable parts on the D4™.

Figure 1 – Installation

The D4 should be used with an anchor point/system conforming with EN795 or in accordance with ANSI Z359.1 (07), or any other specific recognised International Standard or industry Best Practice relating to the specific use, or a non-engineered anchor point capable of withstanding appropriate loads. It is recommended that any anchor point be above the user and that the viability of any installation should be verified by a suitably qualified person. The rope path is identified on the rear of the device as well as on the rope cam. The rope must be attached to the device following the route of the markings. When inserting the rope, it is easier if the cam is held 'open' to increase the gap between the cam and top bobbin, to allow the rope to be fed through. Slack in the anchor line between the user and the anchor should be avoided.

Figure 3 – Operational check

Before each use, verify the correct installation of the rope. With the handle in STOP position, carry out a pre-pull test to ensure the device does not slip down the rope. The device should still be able to travel UP the rope. Move the handle to the PRIMED position and whilst putting your weight on the rope, but in a safe situation, rotate the handle to allow the device to move. Ensure the movement can be controlled and is smooth.

Ensure the device is attached directly to your load bearing harness attachment point using a locking karabiner.

When the adjustable anchor line is loaded by the full weight of the user, this becomes a working line. The primary function of the D4 is progression along the working line. Ensure that you have a fully functional backup device (e.g ISC RED) on a separate rope—this is not always required in rescue or intervention. The D4 is not suitable for use in an EN363 fall arrest system.

Use

To control the device in descent, your left hand is used to position the handle, and your right hand is used on the trailing length of rope to give you extra security and fine adjustments of speed control. If in the situation that you pull the handle too far the device will STOP. To RESET the device rotate the handle clockwise, in the direction of the arrows. This will allow you to continue to DESCEND. All rope adjustment devices create heat when travelling along rope at speed, which can cause damage to the rope. Always check the rope for damage as well as the device.

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.

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.

Lifespan

Extreme temperatures and the effects of chemicals, rust, cuts and abrasions could affect the performance and lifespan of the equipment, to as little as a single use. The potential lifetime of ISC products is up to 10 years for plastic or textile products, and indefinite for metal products. The actual lifetime of a product depends on a variety of factors such as, the intensity of use, the frequency of use, the environment in which it has been used, the competency of the user, and how well it has been maintained and stored etc. Defective equipment shall be put beyond use to ensure it is not used as safety equipment.

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.

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 D4™ rope adjustment device is manufactured by ISC Llandygai Ind Est., Bangor, Gwynedd. LL57 4YH and has been tested and approved by SATRA Technology Centre, Wyndham Way, Telford Way, Kettering. NN16 8SD., notified body number 0321, in accordance with EN12841:2006 with a maximum rated load of 240kg 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.

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