

USER INSTRUCTIONS

THIS PRODUCT IS FOR EXPERT USE AND MUST ONLY BE USED BY FULLY TRAINED AND QUALIFIED PERSONNEL

Warning! Working at height, rock climbing, mountaineering and related activities are inherently dangerous. It is the responsibility of any person using this equipment to learn and practice the proper techniques for use of the equipment for its designated purposes safely and to foresee and take appropriate action in situations where rescue may be required. Even the correct use of equipment and techniques may result in fatal consequences. Medical conditions can affect the safety of the equipment user in normal and emergency use. Any person using this equipment assumes all risks and full responsibility for all damages or injury which may result from the use of it. It is impossible to cover all methods of use. The following instructions and pictograms show some of the common correct and incorrect methods of use; it is impossible to predict them all. There is no substitute for instruction by a trained and competent person.

IMPORTANT: Please read and understand this information before use, and retain this information for future reference.

General Information

- These instructions cover the use of DMM Catch, conforming to one or more international standards. If in doubt please contact your supplier or DMM.
- This product may be used in conjunction with any appropriate item of Personal Protective Equipment (PPE) relevant to European Union Directive 89/686/EEC / PPE Regulation (EU) 2016/425. It may be acceptable for use in other applications, please consult your supplier. **RISK:** This PPE is designed to protect against falls from height.
- Immediately before every use, visually/functionally inspect to insure that the product is in a serviceable condition and operates correctly. (See Fig. 2 Inspection). We recommend a thorough inspection at least once every 6 months by a competent person (this may be the manufacturer). This inspection should be recorded on the inspection form supplied.
- Personal Issue:** this product may be issued for personal use, and may be used either separately or as part of a system.
- Lives depend on your equipment. The user should be aware of its history (use, storage, inspection etc.). If this equipment is not for personal use (e.g. used in mountaineering centres), we strongly recommend a systematic approach to record keeping. This should always be carried out by a competent person.
- WARNING:** if you are in any doubt about the safe condition of this product, replace it immediately.
- WARNING:** if the product has been used to arrest a fall, a thorough examination should be made by a competent person to ascertain its suitability for continued use. If in doubt it should immediately be withdrawn from use, destroyed and replaced.
- Ensure that the instructions for other components used in conjunction with this product are complied with. It is the user's responsibility to ensure that he/she understands the correct and safe use of this product.
- This product is designed for use in normal climatic conditions (-40°C - +50°C). Wet conditions, dust and ice will not affect the strength of this product but may affect its operation in conjunction with the rope. Do not use on ropes that have been contaminated with lubricants e.g. oil, diesel. It may be suitable for other conditions, please consult your supplier.
- No responsibility will be accepted by DMM for damage, injury or death resulting from misuse. If in doubt contact your supplier or DMM.
- No special transportation precautions are necessary; however, avoid all contact with chemical reagents or other corrosive substances. If in doubt it should immediately be withdrawn from use, destroyed and replaced.
- Care must be taken to avoid loading this product over edges and other obstructions. Check the anticipated orientation during loading before use.
- 13. Anchors.**
- 13.1.** The anchorage point of the fall arrest system must be above the harness attachment position of the user and have a minimum strength of 15kN or conform to EN 795:2012.
- 13.2.** Positioning of the anchorage point is crucial for safe fall arrest and this must take into account the anticipated fall distance including rope stretch, the deployment of the shock absorption system (where used) and the length of the connector so that obstructions (such as the ground) may be safely avoided.

14. Ropes

The Catch must **ONLY** be used with the following ropes, which conform to either EN 1891:1998 Type A low stretch rope or NFPA 1983 (2012 ED) rope and were approved for use with the Catch during CE Certification to EN 12841:2006, as listed below.

Manufacturer	Rope	Diameter	EN 12841:2006	Rope Type
BEAL	Access Unicore	11 mm	Pass	EN 1891:1998 A
BEAL	Industrie	11 mm	Pass	EN 1891:1998 A
BEAL	North Sea	11 mm	Pass	EN 1891:1998 A
BEAL	Pro Water	11 mm	Pass	EN 1891:1998 A
BLUE WATER	DGR	11 mm	Pass	NFPA 1983 (2012 ED)
BLUE WATER	Protac	7/16 in	Pass	NFPA 1983 (2012 ED)
BLUE WATER	Safeline	7/16 in	Pass	NFPA 1983 (2012 ED)
DMM	Worksafe	11 mm	Pass	EN 1891:1998 A
DMM	Worksafe Plus	11 mm	Pass	EN 1891:1998 A
EDELRIID	Performance Static	11 mm	Pass	EN 1891:1998 A
EDELRIID	Power Static 2	11 mm	Pass	EN 1891:1998 A
EDELRIID	Safety Super 2	11 mm	Pass	EN 1891:1998 A
MAMMUT	Performance Static	11 mm	Pass	EN 1891:1998 A
MARLOW	LSK	11 mm	Pass	EN 1891:1998 A
PETZL	Axis	11 mm	Pass	EN 1891:1998 A
STERLING	Safety Pro	11 mm	Pass	EN 1891:1998 A
STERLING	Superstatic 2	7/16 in	Pass	NFPA 1983 (2012 ED)
TENDON	Static	11 mm	Pass	EN 1891:1998 A
TEUFELBERGER	Patron	11mm	Pass	EN 1891:1998 A
TEUFELBERGER	Patron Plus	11mm	Pass	EN 1891:1998 A

15. Maintenance and Servicing

This product must not be marked, modified or repaired by the user unless authorised by DMM.

Note: this product is not user maintainable with the exception of the following:

- 15.1. Disinfection:** disinfect using a disinfectant containing quaternary ammonium compounds reinforced with chlorohexidine (e.g. Savlon) in sufficient quantities to be effective. Soak the product for 1 hour at dilutions recommended for general use using clean water as per (15.2) not exceeding 25°C then rinse thoroughly as per (15.2).
- 15.2. Cleaning:** if soiled rinse in clean warm water of domestic supply quality (maximum temperature 25°C) with mild detergent at appropriate dilution (pH range 5.5 - 8.5). Thoroughly rinse and dry naturally in a warm ventilated room away from direct heat. Important: Cleaning is recommended after every use in a marine environment.
- 15.3.** The product may also be cleaned with mineral spirits e.g. White Spirit. Do not soak. The product must then be cleaned as 15.2.
- 15.4. Lubrication:** Lubricate the cam axle with a suitable lubricating oil. This should be carried out after cleaning. Any excess lubricant **MUST** be completely removed from the device before use. Cleaning and lubrication may cure a defective mechanism, if it does not, replace the product immediately. **NOTE:** Lubrication is recommended after every use in a marine environment.
- 15.5. Storage:** after any necessary cleaning store unpacked in a cool, dry, dark place in a chemically neutral environment away from excessive heat or heat sources, high humidity, sharp edges, corrosives or other possible causes of damage. Do not store wet.

16. Lifespan and Obsolescence.

16.1. Lifespan: this is the maximum life of the product, subject to detailed conditions, that the Manufacturer recommends that the product should remain in service.

Maximum Lifespan: Textile & Plastic Products – 10 years from date of manufacture. Metal Products – no time limit.

Note: This may be as little as one use, or even earlier if damaged (e.g. in transit or storage) prior to first use. For the product to remain in service it must pass a visual and tactile inspection when considering the following criteria: fall arrest, general wear, chemical contamination, corrosion, mechanical malfunction/ deformation, cracks, loose rivets, loose strands of wire, frayed and/or bent wire, heat contamination (over normal climatic conditions), cut stitching, frayed tape, degradation of tape and/or thread, loose threads in tape, prolonged exposure to U.V., clear and readable marking (e.g. marking, batch reference, individual serial numbers etc).

Where such products are permanently attached to other products in a system, please refer to the manufacturer recommendations of the complete system.

16.2. Obsolescence: a product may become obsolete before the end of its lifespan. Reasons for this may include changes in applicable standards, regulations, legislation, development of new techniques, incompatibility with other equipment etc.

17. European Union Type Examination: EU type examination for this product is carried out by Notified Body No. 0120: S.G.S. (UK) Ltd., Worle Parkway, Weston-Super-Mare, Somerset, BS22 6WA, U.K.

18. Explanation of Markings:

DMM Wales - Name of manufacturer/country of origin.

Catch CTC 100 - Name of product and product code

Ø Rope 11mm - Rope diameter to be used with the product.

Max xxxkg - Maximum Load

0120CE - CE mark (notified body number and the CE mark).

EN 12841:2006 A - European Standard to which product conforms.

YRDAYXXXX# - Year/Date of manufacture and individual serial number.

EN 1891:1998 Type A - European Standard to which rope must conform.

Anchor, Arrow Pictograms - Direction of orientation for use.

X 1 Single Person Pictogram - For single person use only.

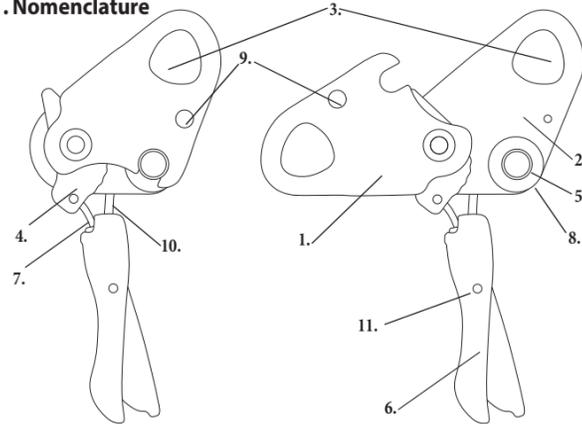
Book Pictogram - Reminder that the end user should read & understand these instructions & the instructions supplied with other items of PPE if to be used in conjunction with this product.

Rescue = For Rescue read **Section 14. Rescue**

19. CE/EU Declaration of Conformity: dmmwales.com

Guarantee - DMM guarantees this product for 3 years against any defects in materials or manufacture. The guarantee does not cover this product for normal wear through usage, incorrect storage, poor maintenance, accidental damage, negligence, any modifications or alterations, corrosion, or for any usage for which the product was not designed.

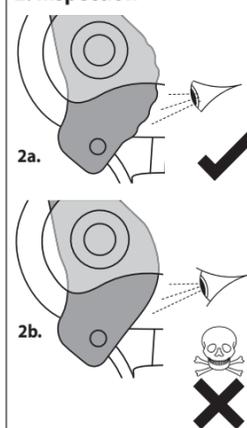
1. Nomenclature



Nomenclature of parts:

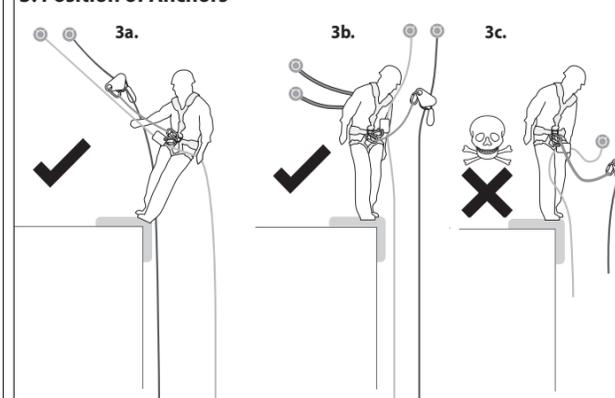
- Front side plate
- Rear side plate
- Attachment holes
- Cam
- Boss
- Towable Release Mechanism
- Release pin assembly
- Screw for side plate locking system
- Side plate locking system
- Connecting cable assembly
- Trigger Rivet

2. Inspection



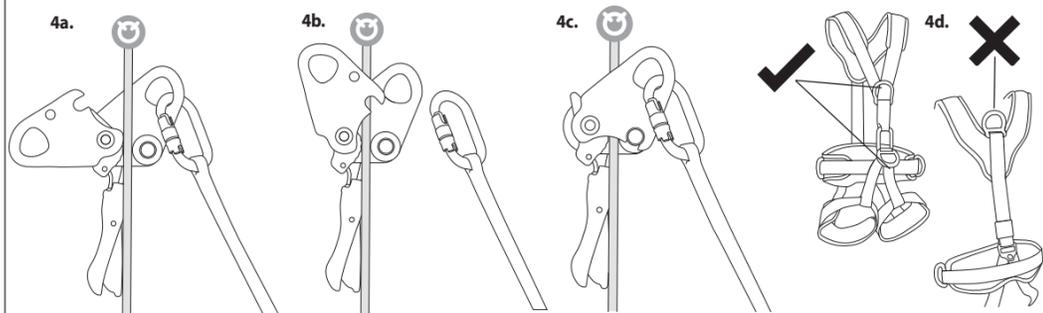
Immediately before every use, the User must inspect the Catch visually and functionally to ensure that the product is in a serviceable condition and operates correctly. Check the side plates, connection holes, boss and cam for wear (Fig. 2a & 2b), cracks, gouges, deformation, sharp edges and corrosion. The cam must be able to move freely with spring pressure, and the markings must be readable. In addition the device must be free from any obstructions or objects that may affect its function e.g. mud, cement, paint, grit, foliage, clothing or any other object. If after inspection, there is any doubt it should immediately be withdrawn from use and inspected by a competent person (this may be the manufacturer). (See General Information 3. - 7. and 16.)

3. Position of Anchors



The anchor must be solid, reliable and appropriately positioned. Minimum anchor strength 15kN or conform to EN 795:2012 (See General Instructions 13. Anchors). The anchor points of the Rope access system must be above the harness attachment of the User (Fig. 3a). The Catch and other devices must always be installed from a safe position. This may require two additional safety systems to be installed (Fig. 3b). The User must never be above the anchor points (Fig. 3c).

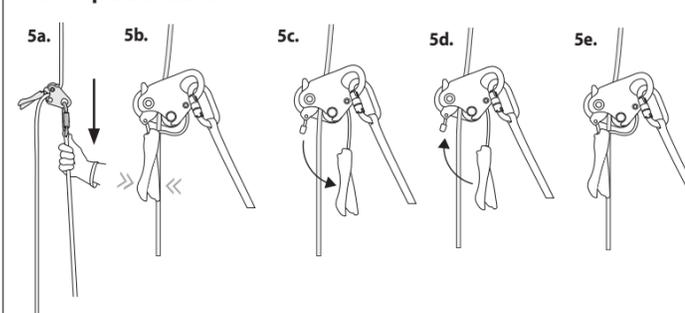
4. Installation & Removal



Installation onto Back Up (Safety) Rope

Always install the Catch from a safe position. Install the Catch onto the Back Up Rope (Fig. 4a - 4c). Take note of the operational direction marked on the Catch. For single person use: use a lanyard or Cowstail of MAXIMUM length 0.8m (including connectors) to connect the device to the User's harness (EN 361:2002 or EN 813:2008). However it is permissible to use a rope Cowstail of minimum diameter 10.5mm manufactured from rope conforming to EN 892:2012 or EN 1891:1998, as well as wire or textile lanyards conforming to EN 354:2010. Always use locking connectors that conforms to EN 362:2004. **Removal from Back Up Rope** Follow Fig. 4c - 4a.

5. Pre Operational Tests



Locking Function Test (Fig. 5a.) Hold the Cowstail/lanyard or connector and pull firmly downwards; the Catch must lock in position on the Back Up Rope. **Trigger Activation Test** 1. Install the Catch onto Back Up Rope (see Fig. 4a & 4b). 2. Squeeze trigger (Fig. 5b). 3. Trigger must disengage from release pin (Fig. 5c). 4. Before use ensure the trigger is reconnected (Fig. 5d & 5e). **Free Movement Test** Move the Catch both up and down on the Back Up Rope to ensure that it moves freely (Fig 6a & 6b). When released the Catch must stay in position.

PRIOR TO USE THE USER IS OBLIGED TO COMPLETE THE FOLLOWING INFORMATION :
User's Name: Place of Purchase: Date of Purchase: Date First Used.

Signature

OK? (Yes/No)

INSPECTION FORM: Comments/Actions

Date Inspected:

DMM
Llanberis, Gwynedd
United Kingdom,
LL55 4EL
Tel: +44 (0) 1286 872 222
Fax: +44 (0) 1286 872 090
E-mail: post@dmmwales.com
Web: www.dmmwales.com
CE 0120

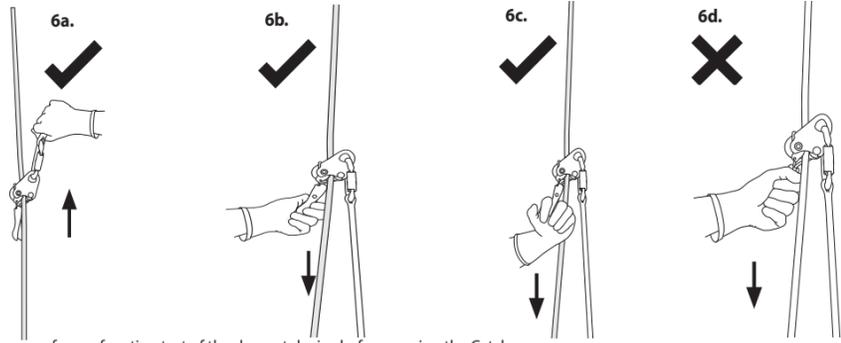


Catch

EN12841:2006 Type A
Rope Adjustment Device

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6. Positioning



Always perform a function test of the descent device before moving the Catch.

Ascent

To move the Catch up the Back Up Rope, hold the Cowstail/lanyard or connector and pull upwards (Fig. 6a).

Descent

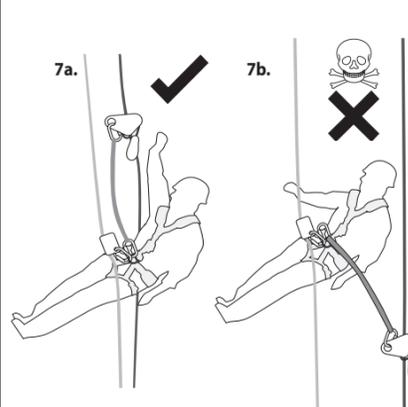
Ensure the Towable Release Mechanism is connected to the release pin. To move the Catch down the Back Up Rope hold the Towable Release Mechanism below the Trigger Rivet in a position where, when squeezed allows activation, and pull downwards (Fig. 6b & 6c).

WARNING - Do NOT hold the Towable Release Mechanism above the Trigger Rivet as shown in Fig. 6d as this may not deploy the Catch.

WARNING - The User must NOT move the Catch by placing his/her hand directly on or above the device (Fig. 8c & 8d).

If the User intends to use the Catch whilst simultaneously operating a descent device, it is advised that the User performs a full function test and is prepared to activate or release the Trigger immediately if required. Users should always hold the Towable Release Mechanism below the Trigger Rivet which ensures the correct activation position.

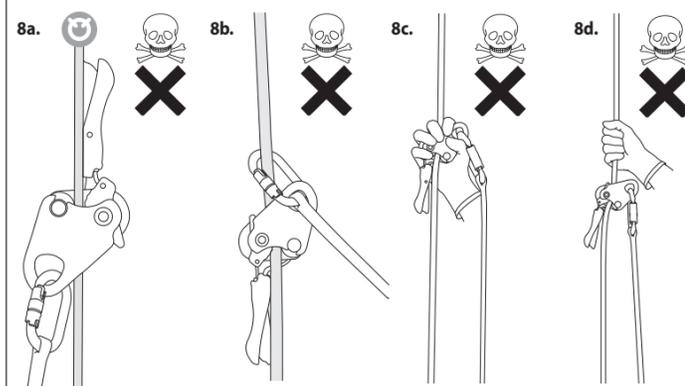
7. Working Position



When stationary ensure that the Catch is positioned as high as possible above the User, and within reach, on the Back Up Rope (Fig. 7a).

Under no circumstances should the Catch be positioned below the attachment point on the User's harness (Fig. 7b).

8. Misuses



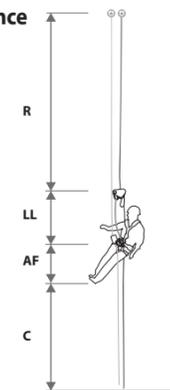
Inverted Installation (Fig. 8a)

The Catch is a directional device and will only correctly function in one direction. It must not be installed upside down. Immediately after connection of the Catch to the Back Up Rope and before use, check that its stopping direction is correct for the intended direction of use.

Incorrect Connector Attachment (Fig. 8b) Incorrect attachment of the connector will lead to the operational failure of the Catch.

Incorrect Positioning Technique (Fig. 8c & 8d) Holding the main body of the Catch, holding the Back Up Rope above the Catch, or holding the Towable Release Mechanism in a position that inhibits deployment, will lead to the failure of the Catch to lock on the Back Up Rope.

9. Clearance



This is the necessary minimum distance below the feet of the User to avoid collision with an obstacle or the ground if the Catch is activated. The actual clearance that is required will depend on, but not limited to, several factors:

- The position of the Catch in relation to the attachment point of the harness. (See 7. Working Position)
- The actual rope elongation of rope in use.
- The length of rope between Catch and anchor point.
- The weight of the User.
- The tightening of any knots.
- The harness stretch.
- Other factors that must be determined by the User.

N.B. On long ropes the actual length of rope elongation when loaded will be very significant, especially if the User is working close to an obstacle or the ground.

Advice: The slippage of the Catch will be significantly reduced if it is kept as high as possible above the User, but still within reach.

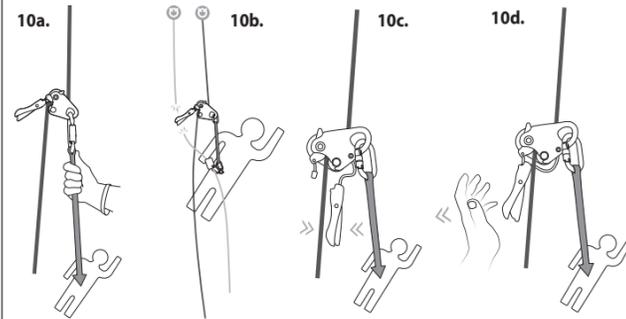
Important: If the User is closer to the obstacle/ground than the calculated clearance, the Catch must NOT be operated simultaneously with the descent device.

$$C = (R \times 10\%) + LL + AF + 2$$

C = Clearance (m)
R x 10% = Rope Stretch (m)
LL = Lanyard Length (m)
AF = Harness attachment point to feet (m)



10. Locking Function During Use



To lock the Catch on the Back Up Rope - Load/pull the lanyard. (Fig. 10a)

Activation whilst not operating the Towable Release Mechanism (e.g. Working Rope failure) - No action required by User to lock the Catch onto the Back Up Rope. (Fig. 10b)

Activation whilst operating the Towable Release Mechanism (e.g. Working Rope failure, User loss of control) - User must squeeze Towable Release Mechanism (Fig. 10c) or remove hand from Towable Release Mechanism (Fig. 10d) to lock the Catch onto the Back Up Rope.

If the Catch is activated, do not try to pull it or the Towable Release Mechanism to unload the partially/fully loaded Catch.

Accidental Activation

It is essential that all Users are competent in the techniques required to overcome accidental activation and loading of the device. If accidental loading occurs, first check the Working Rope equipment, and then use techniques to ascend the Working Rope until the Catch is no longer under load. At all times two safety systems must be in place.

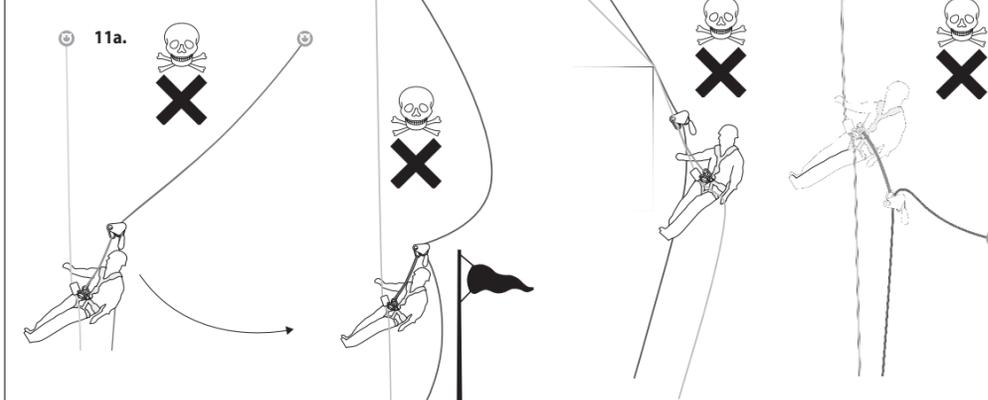
Emergency Activation

If failure of the Working system (e.g. Working Rope failure), User detachment from the Working Rope or uncontrolled descent occurs and the User becomes suspended on the Back Up Rope, the User and other qualified operators must consider the planned procedural options with consideration to all factors of the incident. It should be noted that the full loading of the Back Up Rope means that it is now the Working Rope, and that another safety rope/system may need to be introduced as a matter of urgency. All emergency actions should be carried out following a risk assessment of the situation.

Following any Emergency Activation all equipment must be removed from service for inspection by a competent person.

WARNING - Following ANY overload or dynamic activation, ALL elements of the system including the Catch, the Back Up Rope, the Cowstail/lanyard, harness and connectors may have incurred damage. These elements must be inspected by a competent person before further use. If in doubt they should immediately be withdrawn from use, destroyed and replaced.

11. Hazards



Pendulum (Fig. 11a) Avoid pendulum situations.

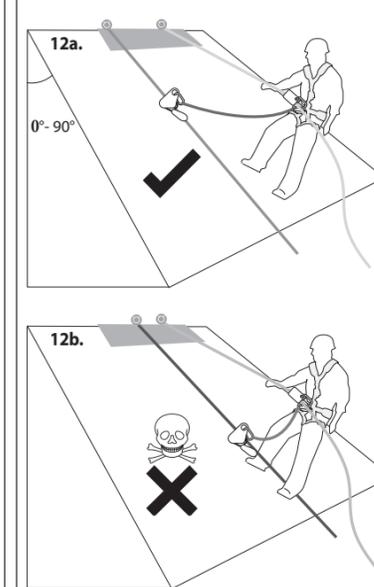
Wind/Slack Rope (Fig. 11b) Add sufficient weight to the Back Up Rope below user to prevent slack above User.

Edges (Fig. 11c) Protect all ropes from edges. If the rope encounters any obstructions, then a full risk assessment on these obstructions should be carried out and risks minimized.

Low Anchor Point (Fig. 11d) No anchor point should be below the User.

Rope Obstacles No devices, knots or other obstacles should be attached to the Back Up Rope within 3 metres below the Catch. If obstacles are encountered within 3 metres below the User, then the Catch must be kept as high as possible with a minimum of slack in the lanyard or cowstail until the obstacle is safely overcome. If the rope encounters any obstructions, then a full risk assessment on these obstructions should be performed and the risks minimised.

12. Sloping Surfaces



Position the Catch high and to one side of the User (Fig. 12a). Ensure that nothing will affect the proper function of the Catch.

Do not work in a position where the Catch may become trapped between sloping surfaces and the User (or anything else). It may not function properly (Fig. 12.b).

Additional Information

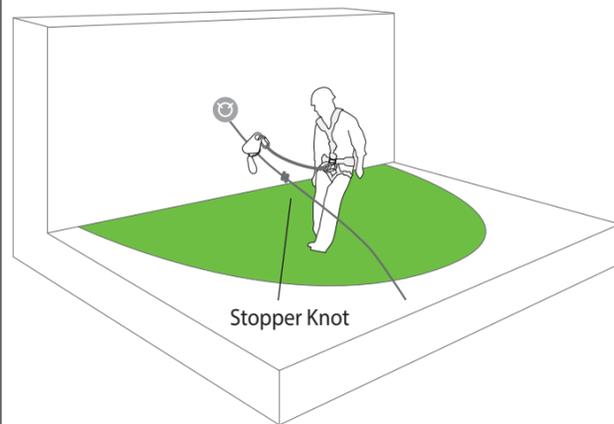
The Catch has been used for applications that are outside the scope of EN 12841A and the CE mark of the device. The design of systems, planning and verification of system suitability for the specific intended application is the responsibility of the User. All anchor points must be suitable for the planned load.

During any training exercise competence is required for all applications and additional safety measures may be needed, including close supervision by a competent instructor.

Users must consider all sections of these instructions with particular attention to:
Section 6. Positioning - Warning,
Section 8. Misuses
Section 9. Clearances, especially regarding rope elongation.

All installed devices should be independently function checked with suitable back up in place prior to any rope operations.

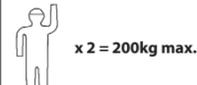
13. Adjustable Restraint



The Catch can be used as part of a planned restraint system of sufficient strength for any potential loading.

The length of the available rope must be less than the distance from its anchor point to any exposed edge or potential fall danger zone. In situations where the User is required to partially or fully load the system in any danger zone (e.g. to provide support or partial support) a second system must be in place prior to any loading.

14. Rescue



On-Rope Rescue:

Rescues should be planned and designed to limit the exposure of rescue team members. On-rope rescues should only be undertaken if the casualty is in urgent need of medical attention that requires evacuation. Training and competence is required for all persons performing rescues.

During all On-rope rescues the Catch must be kept above the shoulder height of both the rescuer and casualty. Where practicable it is recommended that one Catch be used for each person, each on its own rope and each controlled independently of the descent device. Rescue ropes must be suitably anchored and free from sources of damage.

Users must consider all factors affecting Catch performance including obstacles, additional rope elongation and increased clearance requirements as well as all other sections in the User Instructions.

The Catch will function to EN12841:2006 on a 100kg tensioned line.

15. Catch Testing

The Catch has been tested in accordance with the requirements of EN 12841:2006. This requires the Catch to arrest the fall of a steel mass of 100kg in a Fall Factor 2 (FF2) situation on a specified lanyard length with a maximum slippage of 2 metres, with an impact force of below 6kN. However it is advisable and good working practice that the Catch should never be positioned below the harness attachment point (FF1). The test requires the ropes on which the Catch was tested and passed, be specified (see General Information Section 14).

Additional tests and information

The table below displays typical slippage and impact force test results for various masses, fall factors and lanyard lengths. These tests were performed using a DMM Worksafe 11mm diameter rope.

	Typical results showing Catch slippage (m) and impact force (kN) in different fall factor scenarios			
	100kg, 0.8m lanyard	120kg, 0.8m lanyard	200kg, 0.8m lanyard	200kg, 0.4m lanyard
FF0	0.00m, 1.5kN	0.01m, 2kN	0.02m, 4.5kN	0.01m, 3.5kN
FF0.5	0.10m, 4.5kN	0.25m, 5kN	0.70m, 5.5kN	0.45m, 4.5kN
FF1	0.28m, 5kN	0.30m, 5.5kN	Do not use	1.80m, 4.0kN
FF2	Do not use	Do not use	Do not use	Do not use

KEY

Recommended use
Reposition Catch above shoulder height as soon as possible.
Do NOT use Catch in this situation!

16. Advice



Use gloves



Avoid hair entrapment



Wear a helmet