



Fall Protection

# INSTRUCTION MANUAL



EN 353-2:2002

EN 358:1999

EN 1891:1998

*Please read this User Manual carefully before installing and using this product.*

# VIPER™ LT

## ROPE AND ROPE GRAB

Model Numbers: AC4000/0, AC4000, AC4001, AC4002

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CE TYPE EXAMEN  
ESAME CE DEL TIPO EFFETUATO  
EXAMEN CE DE TIPO EFETUADOR POR  
CE-TYPENPRUFUNG DURCH

Nº1019  
VVUU a. s.  
Pikartska 1377/7  
71607 Ostrava - Radvance  
Czech Republic

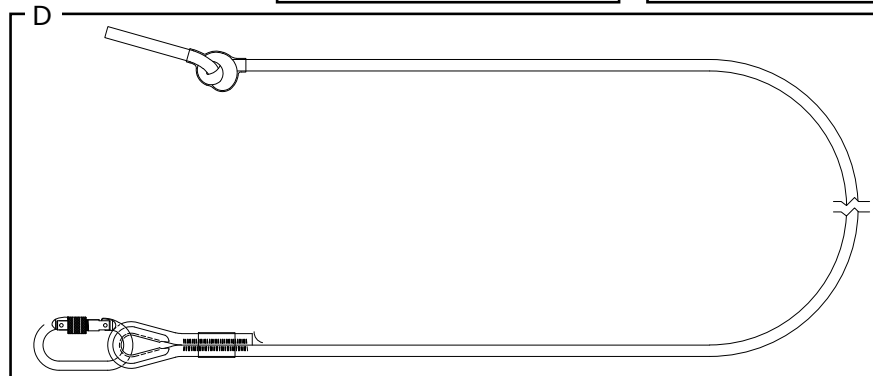
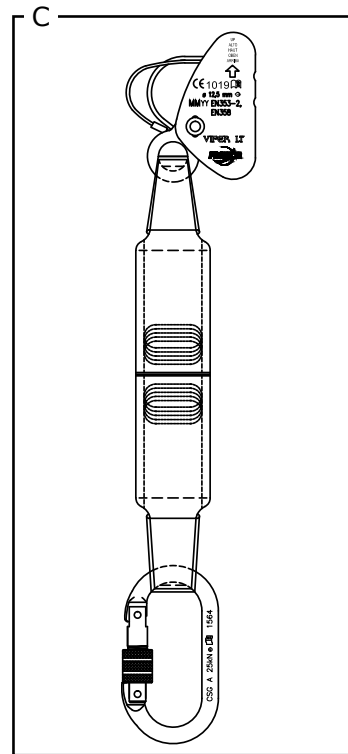
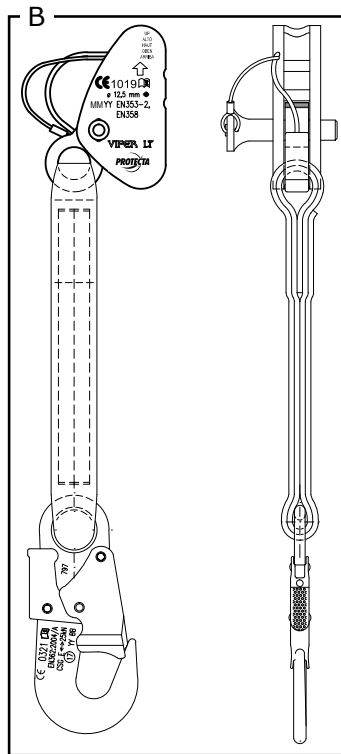
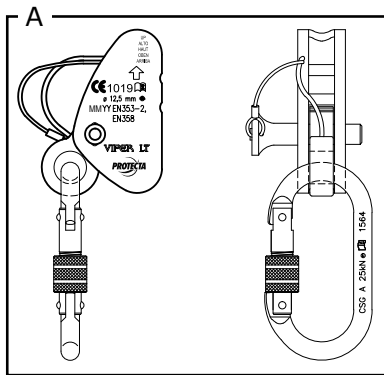
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Nº1019  
VVUU a. s.  
Pikartska 1377/7  
71607 Ostrava - Radvance  
Czech Republic

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### Figure 1 – Viper™ LT Rope Grab and Rope Lifeline

Model	Description	Lifeline Requirements
(A) AC4000	Protecta® Viper™ LT Rope Grab with Carabiner	For use with 12.5 mm (~1/2" in.) diameter Kernmantle type Rope
(B) AC4001	Protecta® Viper™ LT Rope Grab with Web Lanyard	For use with 12.5 mm (~1/2" in.) diameter Kernmantle type Rope
(C) AC4002	Protecta® Viper™ LT Rope Grab with Shock Absorber	For use with 12.5 mm (~1/2" in.) diameter Kernmantle type Rope
(D) AC40XX	12.5 mm (~1/2" in.) diameter Kernmantle type Rope. XXm indicates the length of rope. Example: AC4010 = 10m rope length.	



**WARNING:** This product is part of a personal fall arrest or restraint system. The user must follow the manufacturer's instructions for each component of the system. These instructions must be provided to the user of this equipment. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death.

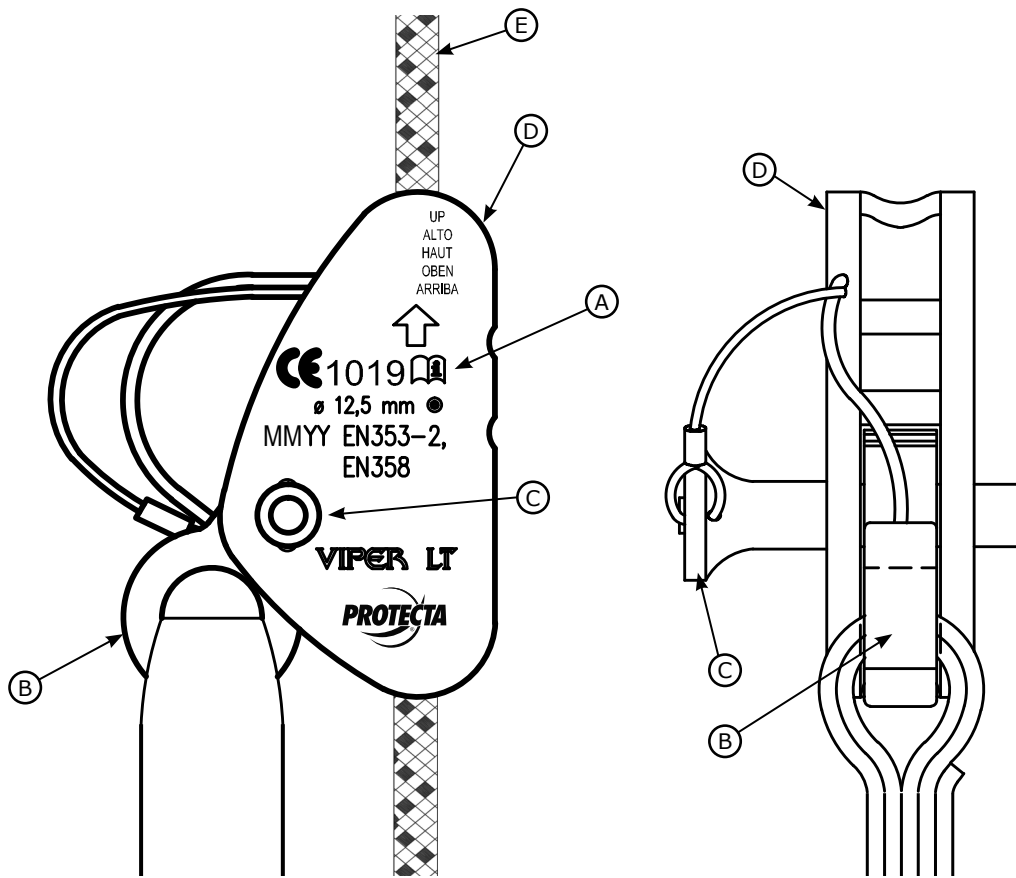
**IMPORTANT:** If you have questions on the use, care, or suitability of this equipment for your application, contact Capital Safety.

**IMPORTANT:** Before using this equipment, record the product identification information (see Figure 2) in the Inspection and Maintenance Log at the back of this manual.

**DESCRIPTION:**

The Viper™ LT rope grab is a manual rope grab intended as fall arrest or restraint system. The rope grab provides a portable connection point on a 12.5 mm rope.

**Figure 2 – Viper™ LT Rope Grab and Rope System Components**



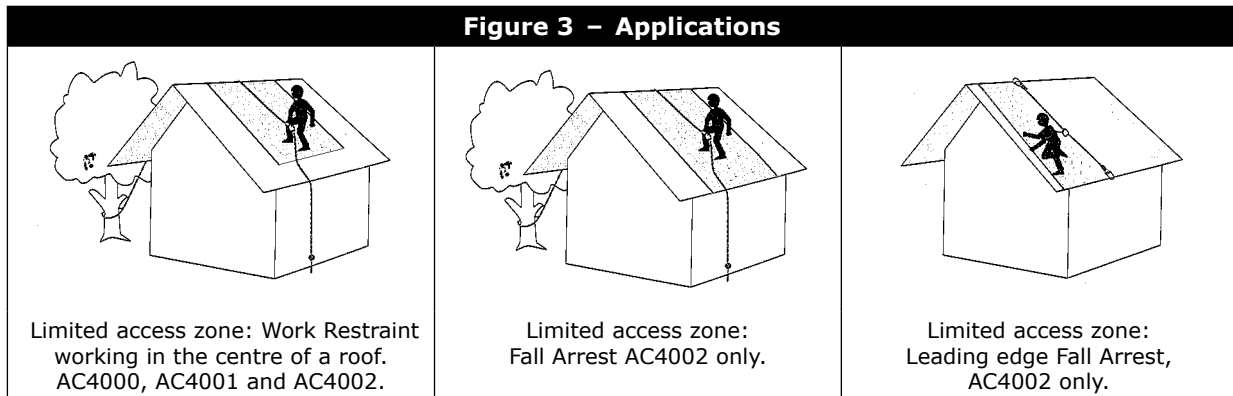
**A - Identification B - Cam/Clamp C - Pivot Pin D - Body E - 12.5mm Rope Lifeline**

A: Identification	Description of Markings
Up ↑	The arrow on the body must point upwards and in the same direction as the top anchor connection of the rope.
CE 1019	ISO 9001 quality assurance system monitoring.
📖	Read these instructions before using the Rope Grab.
12,5 mm	Rope diameter.
MMYY	Date Rope Grab was manufactured: month and year.
EN353-2, EN358	CE Personal Protection Equipment Standards for this device.

## 1.0 APPLICATIONS

**1.1 PURPOSE:** The Viper™ LT Manual Rope Grab and Rope are intended to be used as part of a personal restraint or fall arrest device (Figure 3). The rope grab provides a portable lanyard connection point on a rope lifeline.

Restraint systems prevent the user from reaching a fall hazard (example: leading edge roof work). A typical restraint system includes a rope grab, lifeline, positioning lanyard, and full body harness. No vertical free fall is permitted.



The Rope Grabs in this Instruction Manual are not designed for use as a direct connector to a tensioned horizontal life line system. Applications include: inspection work, construction, demolition, maintenance, oil production, confined space rescue, and window washing. The Rope Grab can also be used to ascend a vertical ladder using the 12.5mm Kernmantle rope.

<b>1.2 STANDARDS:</b> Refer to the following national standards on fall protection:	CE	EN 352-2:2002	Personal protective equipment against falls from a height – Guided Type Fall Arrestors including a Flexible Anchor Line.
	CE	EN 358:1999	Personal protective equipment against falls from a height – Belts for Work Positioning and Restraint and Work Positioning Lanyards.
	CE	EN 1891:1998	Personal protective equipment against falls from a height – Low Stretch Kernmantel Ropes.

**1.3 RESCUE PLAN:** When using this equipment and connecting subsystem(s), the employer must have a rescue plan and the means at hand to implement and communicate that plan to users, authorized persons, and rescuers.

**1.4 TRAINING:** The Rope and Rope Grab must always be used together. This equipment is intended to be used by persons trained in its correct application and use. It is the responsibility of the user to assure they are familiar with these instructions and are trained in the correct care and use of this equipment. Users must also be aware of the operating characteristics, application limits, and the consequences of improper use. This equipment is designed to arrest a fall at height; consideration should be given to the user's age, fitness and physical or mental limitations that could have a detrimental affect on the safe use of this equipment.

**CAUTION:** Training must be conducted without exposing the user to a fall hazard. Training should be repeated on a periodic basis.

**1.5 INSPECTION FREQUENCY:** The Rope and Rope Grab must be inspected by the user before each use by following the procedures defined in "Inspection Checklist" (Table 1) and, additionally, by a competent person<sup>1</sup> other than the user at intervals of no more than one year<sup>2</sup>. Results of each Competent Person inspection should be recorded in the "Inspection and Maintenance Log" in the back of this manual. If there is any doubt about the condition of the equipment it must be removed from service until it is confirmed to be fit for use and documented in writing by a competent person.

**1.6 PRODUCT RESALE:** If this Rope and/or Rope Grab is re-sold outside the original country of destination, the re-seller shall provide instructions for use, maintenance, periodic examination and repair in the language of the country in which the product is to be used.

**1 Competent Person:** One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

**2 Inspection Frequency:** Extreme working conditions (harsh environments, prolonged use, etc.) may require increasing the frequency of competent person inspections.

## 2.0 EQUIPMENT LIMITATIONS & REQUIREMENTS

Always consider the following limitations and requirements when installing or using this equipment.

### 2.1 CAPACITY:

**AC4000 AND AC4001 WORK RESTRAINT USE:** The Viper™ LT Rope and Rope Grab AC4000 and AC4001 assembly is designed for use by one person with a combined weight (person, clothing, tools, etc.) up to 100 kg (220 lbs). At no time shall more than one person connect to the Viper™ LT Rope and Rope Grab for Fall Restraint applications.

**AC4002 VERTICAL FALL ARREST USE - 140KG (308 LBS):** The Viper™ LT Rope and Rope Grab AC4002 assembly is designed for use by one person with a combined weight (person, clothing, tools, etc.) up to 140 kg (308 lbs) for vertical use

**AC4002 ROOFTOP FALL ARREST USE - 100KG (220 LBS):** For rooftop fall arrest use the capacity of the AC4002 product is 100 kg (220 lbs). At no time shall more than one person connect to the Viper™ LT Rope and Rope Grab.

**2.2 ROPE TYPE:** The Viper™ LT Rope Grab must be used with the supplied 12.5 mm (~1/2" in.) Kernmantle type Rope.

**2.3 VERTICAL FALL ARREST USE:** Users can attach to the sternal attachment point of harness and ascend a vertical structure using a 12.5mm rope supplied by capital Safety. The necessary minimum fall clearance below the feet of the user is:

AC4000: greater than 2.0 m

AC4001: greater than 2.4 m

AC4002: greater than 2.7 m

This takes into account the arrest distance and elongation of the anchor line.

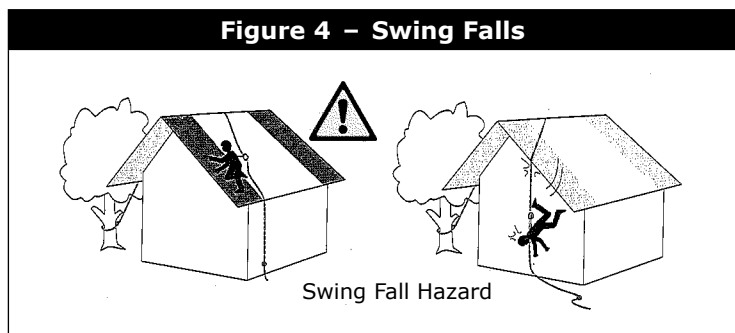
**2.4 ROOFTOP WORK RESTRAINT USE:** The user should minimize the amount of slack in the Rope near a potential fall hazard. To minimize a risk of a fall do not adjust the Rope Grab while moving towards a fall hazard as this may affect the ability of the device to prevent a fall. Also, if the risk assessment carried out before the start of work shows that a fall over an edge is possible, then appropriate precautions must be taken before the start of work to eliminate the risk of falling over the edge (e.g. using product AC4002), or an edge protection barrier should be installed before the start of work, or the user should contact the manufacturer for guidance. The risk assessment should also consider the increased risk of slipping and falling where the user is working on an area of the roof that is inclined, particularly if wet, frozen or the angle is greater than 15 degrees from the horizontal. If there is any doubt, the system should not be used in these circumstances.

**2.5 ROOFTOP FLAT/SLOPED FALL ARREST USE:** For this application AC4002 must be used as this product has been designed and tested for falls over a 0.5mm radius edge. Where the sharpness of an edge can not be defined the rope lifeline must be protected from contact with sharp or abrasive edges and surfaces. The Rope Grab should be connected to the body support using the supplied locking carabiner. The Rope Grab locking operation must not be hindered by interference with the roof or objects on the roof surface.

Ensure sufficient clearance exists in your fall path to prevent striking an object during a fall if working close to the edge. The necessary minimum fall clearance below the feet of the user is 3.8m.

**2.6 SWING FALLS:** Swing falls occur when the anchorage point is not directly above the point where the fall occurs (see Figure 4). The force of striking an object can cause serious injury or death.

If the user wishes to access the edge of the roof (limited access zone) then a leading edge restraint should be used to avoid a swing fall (see Figure 3).



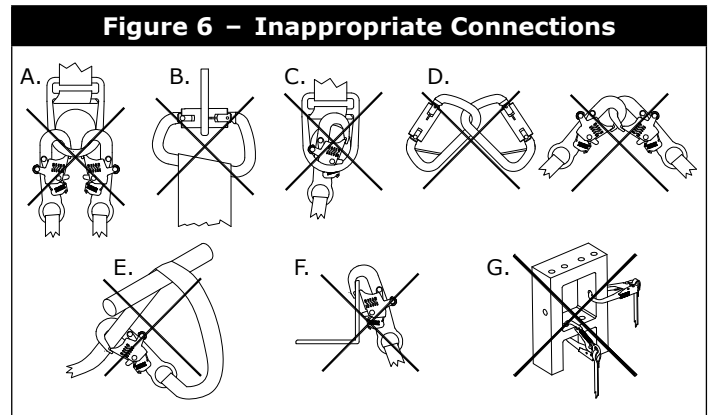
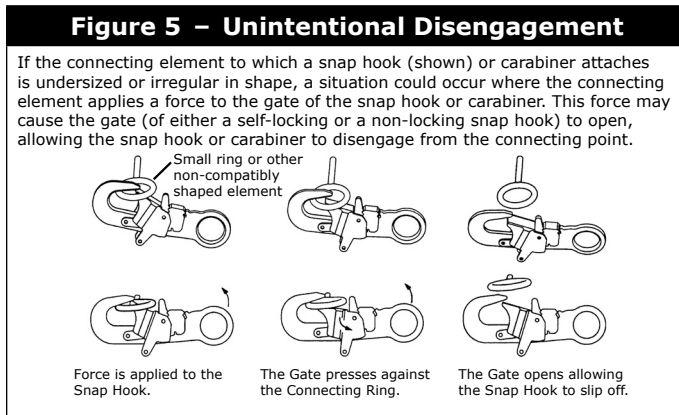
**2.7 ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.

**WARNING:** When working with tools, materials, or in high temperature environments, ensure that associated fall protection equipment can withstand high temperatures, or provide protection for those items.

**2.8 COMPATIBILITY OF COMPONENTS:** Capital Safety equipment is designed for use with Capital Safety approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.

**2.9 COMPATIBILITY OF CONNECTORS:** Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact Capital Safety if you have any questions about compatibility.

Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 22.2 kN (5,000 lbs.). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (see Figure 5). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required.



**2.10 MAKING CONNECTIONS:** Use only connectors that are suitable to each application. Ensure all connections are compatible in size, shape and hook strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

Capital Safety connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 6 for inappropriate connections. Capital Safety snap hooks and carabiners should not be connected:

- A. To a D-ring to which another connector is attached.
  - B. In a manner that would result in a load on the gate.
- CAUTION:** Large throat snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates.
- C. In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.
  - D. To each other.
  - E. Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
  - F. To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.
  - G. In a manner that does not allow the connector to align properly while under load.

**2.11 ANCHORAGE STRENGTH:** Anchorages selected for use with the Rope and Rope Grab must have a strength capable of sustaining the static load requirements of the intended fall/restraint application.

It is imperative that the anchorage selected to be used with the Rope and Rope Grab is capable of withstanding at least twice the loads that will be generated in the event of a fall. A structural engineer should verify this is the case before the anchorage is used. If in doubt, please consult a structural engineer.

The attachment strength should be at least 12 kN and conform to EN795 class A or B.

**NOTE:** When more than one Fall Restraint system is attached to an anchorage, the strength specified above shall be multiplied by the number of systems attached to the anchorage.

**WARNING:** If the Rope or Rope Grab has been subjected to impact forces it must be removed from service and destroyed.

**IMPORTANT:** Extreme working conditions (harsh environments, prolonged use, etc.) may require increasing the frequency of inspections.

### 3.0 OPERATION & USE

**3.1 PLANNING:** Plan your fall protection or restraint system before starting your work. Account for all factors that may affect your safety before, during, and after a fall. Consider all requirements and limitations defined in Section 2.

**3.2 GENERAL USE CONSIDERATIONS:** Avoid working where the Rope lifeline may cross or tangle with that of another worker. Do not allow the lanyard to pass under arms or between legs. Do not clamp, tie, or other wise prevent the Rope Grab lanyard connection cam/clamp (see Figure 2) from moving freely into the "locked" position.

**3.3 UNSTABLE SURFACES:** The Rope Grab is not suitable for use on unstable or slowly shifting materials, such as sand or grain.

**3.4 IMMEDIATELY BEFORE USE CONDUCT A VISUAL INSPECTION:**

- Inspect the Rope Grab body, cam/clamp, pivot pin and connecting wires for damage, corrosion or dirt. If necessary, clean with mild detergent and rinse well with clean water. Assemble the Rope Grab and check that the pivot pin locks into position and that the cam/clamp moves freely.
- Inspect the Rope for damage or malfunction which may have been caused by (and not limited to) temperature, the effect of sharp edges, chemical reagents, electrical conductivity, cutting, abrasion, UV degradation, other weather-related effects or excessive wear.
- Inspect carabiner, if used, for correct locking operation. Also check for signs of deformation, signs of wear or corrosion.
- Inspect lanyard, if used, for cuts abrasions and fraying, heat and/or chemical damage and UV degradation. Confirm that the lanyard has not been deployed. If there is any doubt about the condition of the equipment, it should be removed from service and not used again until approved by a competent person.

**3.5 CONNECT THE ROPE GRAB TO THE ROPE LIFELINE:**

**WARNING:** *In situations where a fall hazard exists, use a back-up fall arrest system, such as a lanyard, to protect against a fall.*

- Step 1.** (See Figure 7) Remove the pivot pin (**A**) by pushing on the collar. Pull the pivot pin from the cam/clamp. Move the cam/clamp (**B**) to one side and insert the Rope (**D**) into the body of the Rope Grab.
- Step 2.** The arrow on the body (**C**) must point upwards and in the same direction as the top anchor connection of the rope (**D**). Reposition the cam/clamp and insert the pivot pin (**A**) fully through the body and the cam/clamp. Check that the pivot pin is locked. Button (**E**) must be fully exposed and extended out from the pivot pin (**A**) shaft.
- Step 3.** Confirm that the cam/clamp is replaced correctly. Verify that the up arrow is orientated in the same direction as the up arrow on the Rope Grab body.

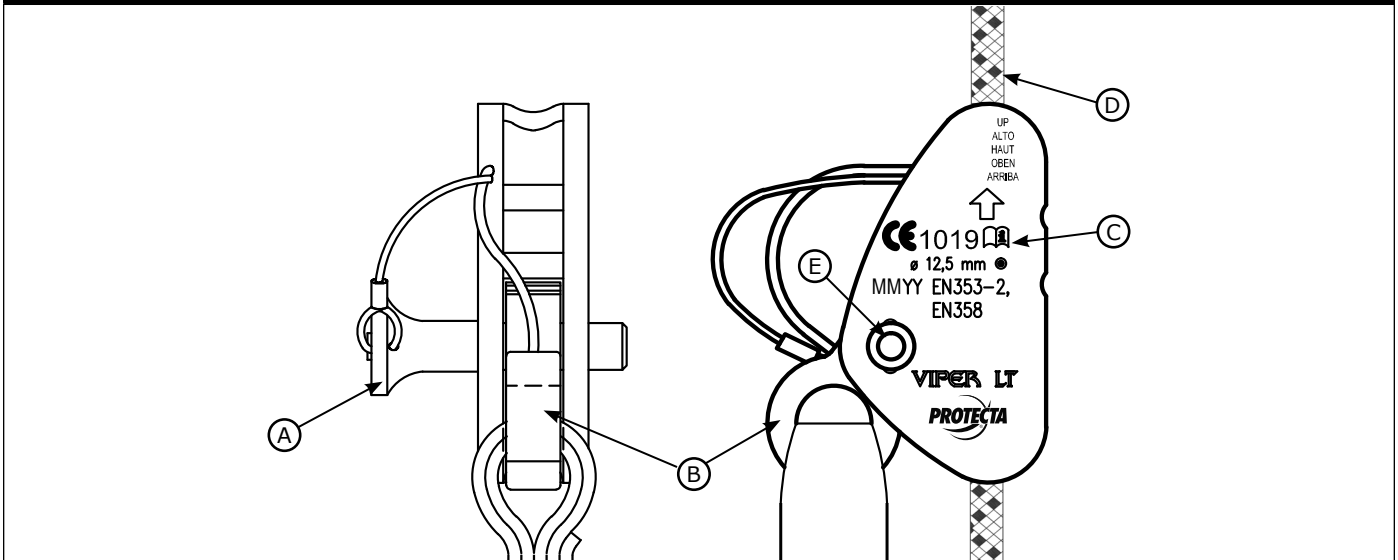
**3.6 REMOVE ROPE FROM ROPE GRAB**

(See Figure 7) Remove the pivot pin (**A**) by pushing on the collar. Pull the pivot pin from the cam/clamp. Move the cam/clamp (**B**) to one side and remove the Rope (**D**) from the body of the Rope Grab.

**3.7 POSITIONING THE ROPE GRAB ON THE ROPE LIFELINE:** To reposition the Rope Grab on the Rope lifeline, follow these steps:

1. To move the cam/clamp on the Rope, raise or lower the Rope Grab to the new position while ensuring the cam/clamp is in contact with the Rope.
2. Check that the cam/clamp will lock onto the Rope by pulling it downwards. Position the Rope Grab at or above your back D-ring to minimize free fall distance.
3. To check the locking action of the Rope Grab, lift up the cam/clamp and release. The Rope Grab must lock onto the Rope. If the Rope Grab does not operate correctly, repeat attachment steps listed in section 3.7.

**Figure 7 – Step 1: Insert the Rope**



**4.0 TRAINING**

**4.1** It is the responsibility of all users of this equipment to understand these instructions and to be trained in the correct installation, use, and maintenance of this equipment. These individuals must be aware of the consequences of improper installation or use of this equipment. This user manual is not a substitute for a comprehensive training program. Training must be provided on a periodic basis to ensure proficiency of the users.

**IMPORTANT:** Training must be conducted without exposing the trainee to a fall hazard. Training should be repeated on a periodic basis.

**5.0 INSPECTION**

**5.1 UNSAFE OR DEFECTIVE CONDITIONS:** If inspection reveals an unsafe or defective condition, remove the Rope or Rope Grab from service immediately and destroy it.

**IMPORTANT:** Do not alter or attempt to repair the Rope Grab. Do not make substitutions for the Rope or Rope Grab parts. Repairs may only be performed by an authorized service center.

**5.2 PRODUCT LIFE:** The functional life of Viper™ LT Manual Rope Grabs and Ropes is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

**Table 1 – Inspections Schedule & Checklist**

Component:	Inspection:	Pass	Fail
	Inspect the pivot pin (A). The button in the pin should spring back out when pushed down. The pin should slide easily through the Rope Grab body and cam/clamp assembly.	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the function of the cam/clamp assembly (B). The cam should move freely, with no sticking or binding. The cam wedge must engage and lock onto the lifeline. The cam spring must be in place and undamaged. The D-ring must be free of corrosion, cracks, or other deformities.	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the Rope Grab body (C). The Rope Grab body must be free of wear, corrosion, cracks, or other deformities.	<input type="checkbox"/>	<input type="checkbox"/>
	All markings on the Rope Grab must be present and fully legible (D).	<input type="checkbox"/>	<input type="checkbox"/>
	Web Lanyard model AC4001: The webbing material must be free of frayed, cut, or broken fibers. Check for tears, abrasions, mold, burns, or discoloration, etc. The webbing must be free of knots, excessive soiling, heavy paint buildup, and rust staining. Check for chemical or heat damage indicated by brown, discolored, or brittle areas. Check for ultraviolet damage indicated by discoloration and the presence of splinters or slivers on the webbing surface. All of the above factors are known to reduce webbing strength. Inspect stitching for pulled or cut stitches. In addition, for model AC4002: Check that there is no visible damage to the connection between the energy absorber and the Viper LT Rope grab. Also, check that the energy absorber element is intact, in good condition and has not been deployed.	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the Rope for damage or malfunction which may have been caused by (and not limited to) temperature, the effect of sharp edges, chemical reagents, electrical conductivity, cutting, abrasion, UV degradation, other climatic conditions or excessive wear.	<input type="checkbox"/>	<input type="checkbox"/>
	Record inspection dates and results in the Inspection and Maintenance Log in this document.		
Full Body Harness	Inspect the Full Body Harness per the manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>

## **6.0 CLEANING, MAINTENANCE, AND STORAGE**

**6.1** The Rope Grab and Rope should be cleaned separately in lukewarm water with a small amount of neutral detergent added. After washing rinse thoroughly with clean water and allow to dry naturally away from direct sunlight. Cleaning and drying should be carried out immediately after every use in a marine environment.

Store in a clean, dry environment avoiding extremes of temperature, corrosive fumes or chemical substances. If the Rope and/or Rope Grab comes into contact with chemicals refer to chemical data sheets and/or the manufacturer.

When the Rope and Rope Grab are used in extremely cold weather, be aware if there is a possibility of water/ice coming into contact with the moving parts of the Rope Grab. Ensure that the cam/clamp teeth are free from ice.

Ropes should not be stored in direct sunlight or where they may be affected by any source (e.g. radiators). Storage and room humidity should be 60% and 25°C approximately. Ropes should not come into contact with any chemicals and should be removed from service if they come into contact with chemicals outside the PH range of 5.5 – 8.5.

**6.2** Replacement parts and additional maintenance and servicing procedures must be completed by an authorized service center. An authorization and return number must be issued by Capital Safety.

**6.3** Clean and store all system components according to the manufacturers' instructions.

## **7.0 SPECIFICATIONS/PERFORMANCE DATA**

### **7.1 SPECIFICATIONS:**

- **Rope Grab Weight:** 0.175 kg (0.39 lbs.)
- **Rope Grab Dimensions (including pivot pin):** 89 x 63 x 62 mm (3.5 x 2.5 x 2.4 in.)
- **Rope Type:** 12.5 mm (~1/2" in.) low stretch Kernmantle
- **Rope Weight:** 87.2 g/m ± 10%

### **7.2 PERFORMANCE DATA:**

- **Arrest Force:** Designed for 6 kN (1,349 lbf.) maximum arresting force.
- **Maximum Capacity:**
  - AC4000 and AC4001: 100kg (220 lbs)
  - AC4002 vertical use: 140kg (308 lbs)
  - Roof top fall arrest use: 100kg (220 lbs)
- **Applicable Standards:** EN 352-2:2002, EN 358:2000, EN 1891:1998





<p align="center"><b>GLOBAL PRODUKTGARANTI, BEGRÆNSEDE RETSMIDLER OG BEGRÆNSNING AF GARANTIFORPLIGTELSE</b></p> <p><b>GARANTI:</b> FØLGENDE ERSTATTER ALLE GARANTIER ELLER BETINGELSER, UDTRYKKELIGE ELLER UNDERFORSTÅEDE, HERUNDER DE UNDERFORSTÅEDE GARANTIER ELLER BETINGELSER FOR SALGBARHED ELLER EGNETHED TIL ET SPECIFIKT FORMÅL.</p> <p>Bortset fra hvad der sikres ved gældende love, er 3M's produkter til faldsikring omfattet af en garanti mod fabriksdefekter i den håndværksmæssige udførelse og materialer i en periode på et år fra installationsdatoen eller den første ejers ibrugtagningsdato.</p> <p><b>BEGRÆNSEDE RETSMIDLER:</b> Ved skriftlig henvendelse til 3M vil 3M reparere eller erstatte ethvert produkt, der af 3M vurderes at have en fabriksdefekt i den håndværksmæssige udførelse eller materialer. 3M forbeholder sig ret til at kræve produktet returneret til dets anlæg for at vurdere krav om garanti. Denne garanti dækker ikke skade på produktet slid, misbrug, forkert brug, transportskade, manglende vedligeholdelse af produktet eller anden skade uden for 3M's kontrol. 3M vil alene fastslå produktets tilstand og mulighederne for garanti.</p> <p>Denne garanti gælder kun for den oprindelige køber og er den eneste garanti gældende for 3M's produkter til faldsikring. Kontakt venligst 3M's kundeserviceafdeling i dit område for at få hjælp.</p> <p><b>BEGRÆNSNING AF GARANTIFORPLIGTELSE:</b> I DEN UDSTRÆKNING DET TILLADES AF LOKALE LOVE ER 3M IKKE ANSVARLIG FOR NOGEN INDIREKTE, TILFÆLDIGE, SPECIELLE ELLER PÅFØLGENDE SKADER, HERUNDER MEN IKKE BEGRÆNSET TIL TAB AF FORTJENESTE, DER PÅ NOGEN MÅDE ER RELATERET TIL PRODUKTERNE UANSET DEN UDLAGTE JURIDISKE TEORI.</p>	<p align="center"><b>GLOBALE PRODUKTGARANTIE, BESCHRÄNKTES RECHTSMITTEL UND HAFTUNGSBESCHRÄNKUNG</b></p> <p><b>GARANTIE:</b> FØLGENDES GILT STELLVERTRETEND FÜR ALLE GARANTIEEN ODER BEDINGUNGEN, EINSCHLIESSLICH STILLSCHWEIGEND ANGENOMMENER GARANTIEEN ODER BEDINGUNGEN HINSICHTLICH DER TAUGLICHKEIT ODER EIGNUNG FÜR EINEN BESTIMMTEN ZWECK.</p> <p>Soweit gesetzlich nicht anders vorgeschrieben, werden bei 3M-Produkten für die Absturzversicherung werksseitige Mängel bei Verarbeitung und Material für einen Zeitraum von einem Jahr ab dem Datum der Installation oder der erstmaligen Benutzung durch den ursprünglichen Eigentümer garantiert.</p> <p><b>BESCHRÄNKTES RECHTSMITTEL:</b> Nach schriftlicher Mitteilung an 3M wird 3M jedes Produkt ersetzen oder austauschen, bei dem durch 3M ein werksseitiger Material- oder Verarbeitungsfehler festgestellt wird. 3M behält sich das Recht vor, die Rücksendung des Produkts an das Werk zur Beurteilung der Garantieansprüche zu verlangen. Unter dieser Garantie sind keine Schäden am Produkt gedeckt, die auf Verschleiß, Missbrauch, Transportschäden, Versäumnis der Instandhaltung des Produkts oder sonstige außerhalb der Kontrolle von 3M liegende Schäden zurückzuführen sind. 3M trifft allein die Entscheidung über Produktzustand und Garantieoptionen.</p> <p>Diese Garantie gilt ausschließlich für den ursprünglichen Käufer und ist die einzige, die für Absturzversicherungsprodukte von 3M maßgeblich ist. Kontaktieren Sie bitte die Kunden-Service-Abteilung, um Unterstützung zu erhalten.</p> <p><b>HAFTUNGSBESCHRÄNKUNG:</b> SOWEIT NACH GELTENDEM RECHT ZULÄSSIG, IST 3M NICHT HAFTBAR FÜR UNMITTELBARE, MITTELBARE, BESONDERE SCHÄDEN ODER FOLGESCHÄDEN JEDER ART, EINSCHLIESSLICH VON VERLUST VON GEWINN, DER IM ZUSAMMENHANG MIT DEN PRODUKTEN ENTSTEHT, UNGEACHTET DER ANGEFÜHRTEN RECHTSLEHRE.</p>
<p align="center"><b>GARANTIE PRODUIT INTERNATIONALE, RECOURS LIMITÉ ET LIMITATION DE LA RESPONSABILITÉ</b></p> <p><b>GARANTIE :</b> LES DISPOSITIONS SUIVANTES SONT PRISES EN LIEU ET PLACE DE TOUTES LES GARANTIES OU CONDITIONS, EXPRESSES OU IMPLICITES, Y COMPRIS LES GARANTIES OU CONDITIONS IMPLICITES DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE SPÉCIFIQUE.</p> <p>À moins d'un conflit avec une législation locale, les produits antichute de 3M sont garantis contre les défauts de fabrication en usine et de matériaux pendant une période d'un an à compter de la date d'installation ou de la première utilisation par le propriétaire initial.</p> <p><b>RECOURS LIMITÉ :</b> Sur demande écrite à 3M, 3M s'engage à réparer ou remplacer tout produit considéré par 3M comme souffrant d'un défaut de fabrication en usine ou de matériaux. 3M se réserve le droit d'exiger que le produit lui soit retourné pour une évaluation de la réclamation au titre de la garantie. Cette garantie ne couvre pas les dommages du produit liés à l'usage, aux abus, à la mauvaise utilisation, aux dommages liés aux transports, au manque d'entretien du produit ou tout autre dommage indépendant du contrôle de 3M. 3M sera l'unique juge de la condition du produit et des options de la garantie.</p> <p>Cette garantie ne s'applique qu'au propriétaire initial et elle constitue l'unique garantie s'appliquant aux produits antichute de 3M. Veuillez contacter le service à la clientèle 3M de votre région pour obtenir de l'assistance.</p> <p><b>LIMITATION DE LA RESPONSABILITÉ :</b> DANS LES MESURES PERMISES PAR LA LÉGISLATION LOCALE, 3M N'EST PAS RESPONSABLE POUR TOUT DOMMAGE INDIRECT, ACCESSOIRE, SPÉCIFIQUE OU CONSÉCUTIF, Y COMPRIS, MAIS SANS S'Y LIMITER, LA PERTE DE PROFITS, LIÉE DE QUELQUE MANIÈRE QUE CE SOIT AUX PRODUITS, MALGRÉ LA THÉORIE JURIDIQUE REVENDIQUÉE.</p>	<p align="center"><b>GLOBAL PRODUKTGARANTI, BEGRENSET AVHJÆLP OG BEGRÆNSNING AV ERSTATNINGANSVAR</b></p> <p><b>GARANTI:</b> DET FØLGENDE KOMMER I STEDET FOR ALLE GARANTIER ELLER VILKÅRE, UDTRYKKELIGE ELLER UNDERFORSTÅTTE, INKLUDERT DE UNDERFORSTÅTTE GARANTIENE ELLER VILKÅRENE OM SALGBARHED ELLER EGNETHED FOR ET BESTEMT FORMÅL.</p> <p>Med mindre annet er bestemt av lokale lover, er 3Ms fallsikringsprodukter garantert mot fabriksjonsfeil i håndverksmessig utførelse og materialer for en periode på ett år fra installasjonsdatoen eller første bruk av den opprinnelige eieren.</p> <p><b>BEGRENSET AVHJÆLP:</b> Ved skriftlig melding til 3M, vil 3M reparere eller erstatte ethvert produkt som av 3M fastslås å ha en fabriksjonsfeil i håndverksmessig utførelse eller materialer. 3M forbeholder seg retten til å kreve at produktet blir levert tilbake til fabrikken for evaluering av garantikrav. Denne garantien dekker ikke produktets skade grunnet slitasje, misbruk, skade i transit, unnlattelse av å vedlikeholde produktet eller annen skade utenfor 3Ms kontroll. 3M vil være den eneste til å bedømme produktvilkår og garantialternativer.</p> <p>Denne garantien gjelder kun den opprinnelige kjøperen og er den eneste garantien som er anvendelig for 3Ms fallsikringsprodukter. Vennligst kontakt 3Ms kundeserviceavdeling i ditt område for hjelp.</p> <p><b>BEGRÆNSNING AV ERSTATNINGANSVAR:</b> I DEN UTSTREKNING DET ER TILLATT AV LOKALE LOVER, ER IKKE 3M ERSTATNINGANSVARLIG FOR NOEN SOM HELST INDIREKTE, HENDELIGE, SPESIELLE ELLER FØLGEMESSIGE SKADER INKLUDERT, MEN IKKE BEGRENSET TIL TAP AV FORTJENESTE, PÅ NOEN SOM HELST MÅTE FORBUNDET MED PRODUKTET, UAVHENGIG AV HVILKEN JURIDISK TEORI SOM PÅBEROPES.</p>
<p align="center"><b>GLOBAL PRODUKTGARANTI, BEGRÄNSAD KOMPENSATION OCH BEGRÄNSAD ANSVARSSKYLDIGHET</b></p> <p><b>GARANTI:</b> FÖLJANDE GÄLLER SOM ERSÄTTNING FÖR ALLA GARANTIER ELLER VILLKOR, UTTRYCKLIGA ELLER UNDERFÖRSTÄDDA, INKLUSIVE UNDERFÖRSTÄDDA GARANTIER ELLER VILLKOR FÖR SÄLJBARHET ELLER LÄMPLIGHET FÖR ETT VISST ÄNDAMÅL.</p> <p>Såvida inte annat stipuleras i lokala lagar, garanteras 3M:s fallskyddsprodukter mot fabriktionsfel avseende tillverkning och material under en period av ett år från datum för ursprunglig ägares installation eller första användning.</p> <p><b>BEGRÄNSAD KOMPENSATION:</b> Efter skriftlig avisering till 3M, kommer 3M att reparera eller byta ut varje produkt, som av 3M fastställts vara behäftad med fabriktionsfel vad gäller tillverkning eller material. 3M förbehåller sig rätten att kräva att produkt returneras till företagets anläggning för utvärdering av garantianspråk. Denna garanti omfattar inte produktetskada till följd av slitage, felaktig användning, missbruk, skada under transport, underlättnhet att sköta produkten eller annan skada utom 3M:s kontroll. 3M är ensam bedömare av produktetskada och garantialternativ.</p> <p>Denna garanti avser enbart den ursprungliga köparen och är den enda garanti som gäller för 3M:s fallskyddsprodukter. Kontakta 3M:s kundtjänstavdelning i din region för assistans.</p> <p><b>BEGRÄNSNING AV ANSVARSSKYLDIGHET:</b> I DEN OMFATTNING SOM TILLÄTS AV LOKALA LAGAR, ANSVARAR 3M INTE FÖR NÅGRA INDIREKTA, OFÖRUTSEDDA, SPECIELLA ELLER FÖLJDASKADOR, INKLUSIVE MEN INTE BEGRÄNSAT TILL FÖRLUST AV VINSTER, VILKA PÅ NÅGOT SÄTT HÄNFÖRS TILL PRODUKTERNA, OAVSETT HÄVDAD RÄTTSLIG GRUND.</p>	<p align="center"><b>GLOBAALI TUOTETAKUU, RAJATTU KORVAUS JA VASTUUNRAJOITUS</b></p> <p><b>TAKUU:</b> SEURAAVA ON LAADITTU KAIKKIEN SUORIEN TAI EPÄSUORIEN TAKUIDEN TAI EHTOJEN SIJAAN, MUKAAN LUKIEN EPÄSUORAT TAKUUT MYINTIKELPOISUUDESTA TAI SOPIVUUDESTA TIETTYYN TARKOITUKSEEN.</p> <p>Ellei muutoin paikallisissa laeissa säädetä, 3M-putoamisenestotuotteilla on yhden vuoden takuu valmistusvirheitä ja materiaalivirheitä koskien asennuspäivästä tai alkuperäisen käyttäjän ensimmäisestä käyttöpäivästä alkaen.</p> <p><b>RAJATTU KORVAUS:</b> Kirjallisella 3M:lle lähetetyllä ilmoituksella 3M korjaa tai vaihtaa kaikki tuotteet, joissa on 3M:n määrittelämä valmistus- tai materiaalivirhe. 3M pidättää oikeuden vaatia tuotetta palautettavaksi tehtäälle takuuvaatimusten arvioimiseksi. Tämä takuu ei kata kulumisesta, tuotteen väärinkäytöstä, kuljetusvahingoista tai tuotteen epäonnistuneesta huollosta aiheutunutta vauriota tai muuta vauriota, johon 3M ei pysty vaikuttamaan. Tuotteen kunnosta ja takuuvaihtoehtoista päätökseen tekee ainoastaan 3M.</p> <p>Tämä takuu koskee vain alkuperäistä ostajaa, ja sitä sovelletaan ainoastaan 3M:n putoamisenestotuotteisiin. Ota yhteyttä paikalliseen 3M:n asiakaspalveluun saadaksesi apua.</p> <p><b>VASTUUNRAJOITUS:</b> PAIKALLISTEN LAKIEN SALLIMISSA MÄÄRIN 3M EI OLE VASTUUSSA MISTÄÄN EPÄSUORASTA, SATTUMANVARAISESTA, ERTYISESTÄ TAI AIHEUTUNEESTA VAHINGOSTA, MUKAAN LUKIEN, MUTTA SIIHEN KUITENKAAN RAJOITTUMATTA, TUOTTOJEN MENETTÄMINEN, MILLÄÄN TAVALLA TUOTTEISIIN LIITTYEN OIKEUSTEORIASTA HUOLIMATTA.</p>
<p align="center"><b>WERELDWIJDE PRODUCTGARANTIE, BEPERKTE VERHAALSMOGELIJKHEID EN BEPERKING VAN AANSPRAKELIJKHEID</b></p> <p><b>GARANTIE:</b> DE VOLGENDE BEPALING VERVANGT ALLE GARANTIES OF VOORWAARDEN, EXPLICIET OF IMPLICIET, INCLUSIEF DE IMPLICIETE GARANTIES OF VOORWAARDEN VAN VERKOOPBAARHEID OF GESCHIKTHEID VOOR EEN BEPAALD DOEL.</p> <p>Tenzij anders is bepaald door lokale wetgeving, zijn valbeschermingsproducten van 3M voorzien van een garantie op fabrieksfouten door fabricage- en materiaalgebreken gedurende een periode van één jaar na de datum van installatie of het eerste gebruik door de oorspronkelijke eigenaar.</p> <p><b>BEPERKTE VERHAALSMOGELIJKHEID:</b> Na schriftelijke kennisgeving aan 3M zal 3M eerder welk product repareert of vervangen waarvan 3M heeft vastgesteld dat het een fabrieksfout heeft door een fabricage- of materiaalgebrek. 3M behoudt zich het recht voor om te eisen dat het product naar zijn vestiging wordt gereetourneerd om garantieaanspraken te beoordelen. Deze garantie is niet van toepassing op productschade door sluitage, oneigenlijk gebruik, misbruik, transportschade, nalatigheid bij onderhoud van het product of andere schade waarover 3M geen controle heeft. 3M zal als enige oordelen over de toestand van het product en garantieopties.</p> <p>Deze garantie is alleen van toepassing op de oorspronkelijke koper en is de enige garantie die van toepassing is op valbeschermingsproducten van 3M. Neem contact op met de klantendienst van 3M voor uw regio als u assistentie wenst.</p> <p><b>BEPERKING VAN AANSPRAKELIJKHEID:</b> VOOR ZOVER TOEGESTAAN DOOR LOKALE WETGEVING, IS 3M NIET AANSPRAKELIJK VOOR ENIGE INDIREKTE, INCIDENTELE, SPECIALE OF GEVOLGSCHADE, INCLUSIEF, MAAR NIET BEPERKT TOT, WINSTVERLIES, DIE OP ENIGE WIJZE VERBAND HOUDT MET DE PRODUCTEN, ONGEACHT DE RECHTSLEER DIE WORDT AANGEAHAALD.</p>	<p align="center"><b>ALÞJÓÐLEG VÖRUÁBYRGÐ, TAKMÖRKUÐ ÚRRÆÐI OG TAKMARKANIR ÁBYRGÐAR</b></p> <p><b>ÁBYRGÐ:</b> EFTIRFARANÐI ER FRAM SETT Í STÁÐINN FYRIR HVERS KYNS SKILYRÐI EÐA ÁBYRGÐIR, YFIRLÝSTAR EÐA GEFNAR Í SKYN, Þ.M.T. ÁBYRGÐIR EÐA SKILYRÐI UM SÖLULU/EFNI EÐA HÆFNI Í TILTEKNUM TILGANGI.</p> <p>Nema að kvæði sé á um annað í staðbundnum lögum, eru fallverndarvörur 3M í ábyrgð gagnvart verksmiðjuöllum handverks og hráefna í eitt ár frá dagsetningu uppsetningar eða fyrstu notkunar upphaflegs eiganda.</p> <p><b>TAKMÖRKUÐ ÚRRÆÐI:</b> Að fenginni skriflegri tilkynningu til 3M, mun 3M gera við eða endurnýja allar vörur sem ákveðið er af 3M að hafi verksmiðjugalla hvað varðar handverk eða hráefni. 3M áskilur sér rétt til að krefjast þess að vörinni sé skilað í aðstöðu fyrirtækisins svo meta megi ábyrgðarkröfuna. Þessi ábyrgð nær ekki yfir vöruskemmdir vegna slits, slennrar meðferðar, misnotkunar, skemmda í flutningum, misbrests á viðhaldi vörunnar, eða annarra skemmda sem ekki er í valdi 3M að hafa stjórn á. 3M mun dæma ástand vörunnar að eigin geðþótta og kosti varðandi ábyrgð.</p> <p>Þessi ábyrgð nær aðeins til upphaflegs kaupanda og er aðeins ábyrgð sem á við um fallverndarvörur 3M. Vinsamlegast hafðu samband við deild viðskiptavinaþjónustu hjá 3M á þínu svæði til að fá aðstoð.</p> <p><b>TAKMÖRKUN ÁBYRGÐAR:</b> AÐ ÞVÍ MARKI SEM HEIMILAD ER AF STADBUNDNUM LÖGUM ÞÁ ER 3M EKKI ÁBYRGT FYRIR NEIÐNUM ÖBEINUM, TILFALLANDI, TILTEKNUM EÐA AFLEIDDU SKEMMDUM, Þ.M.T. EN EKKI TAKMARKAD VIÐ, HAGNAÐARTAP, SEM Á NOKKURN HÁTT TENGIST VÖRUNNI, SAMA HVAD LAGATILGATUR ER STUÐST VIÐ.</p>

## GLOBAL PRODUCT WARRANTY, LIMITED REMEDY AND LIMITATION OF LIABILITY

**WARRANTY:** THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Unless otherwise provided by local laws, 3M fall protection products are warranted against factory defects in workmanship and materials for a period of one year from the date of installation or first use by the original owner.

**LIMITED REMEDY:** Upon written notice to 3M, 3M will repair or replace any product determined by 3M to have a factory defect in workmanship or materials. 3M reserves the right to require product be returned to its facility for evaluation of warranty claims. This warranty does not cover product damage due to wear, abuse, misuse, damage in transit, failure to maintain the product or other damage beyond 3M's control. 3M will be the sole judge of product condition and warranty options.

This warranty applies only to the original purchaser and is the only warranty applicable to 3M's fall protection products. Please contact 3M's customer service department in your region for assistance.

**LIMITATION OF LIABILITY:** TO THE EXTENT PERMITTED BY LOCAL LAWS, 3M IS NOT LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO LOSS OF PROFITS, IN ANY WAY RELATED TO THE PRODUCTS REGARDLESS OF THE LEGAL THEORY ASSERTED.



Fall Protection

### USA

3833 SALA Way  
Red Wing, MN 55066-5005  
Toll Free: 800.328.6146  
Phone: 651.388.8282  
Fax: 651.388.5065  
3Mfallprotection@mmm.com

### Brazil

Rua Anne Frank, 2621  
Boqueirão Curitiba PR  
81650-020  
Brazil  
Phone: 0800-942-2300  
falecoma3m@mmm.com

### Mexico

Calle Norte 35, 895-E  
Col. Industrial Vallejo  
C.P. 02300 Azcapotzalco  
Mexico D.F.  
Phone: (55) 57194820  
mexico@capitalsafety.com

### Colombia

Compañía Latinoamericana de Seguridad S.A.S.  
Carrera 106 #15-25 Interior 105 Manzana 15  
Zona Franca - Bogotá, Colombia  
Phone: 57 1 6014777  
fallprotection-co@mmm.com

### Canada

260 Export Boulevard  
Mississauga, ON L5S 1Y9  
Phone: 905.795.9333  
Toll-Free: 800.387.7484  
Fax: 888.387.7484  
3Mfallprotection-ca@mmm.com

### EMEA (Europe, Middle East, Africa)

*EMEA Headquarters:*  
5a Merse Road  
North Moons Moat  
Redditch, Worcestershire  
B98 9HL UK  
Phone: + 44 (0)1527 548 000  
Fax: + 44 (0)1527 591 000  
informationfallprotection@mmm.com

### France:

Le Broc Center  
Z.I. 1re Avenue - BP15  
06511 Carros Le Broc Cedex  
France  
Phone: + 33 04 97 10 00 10  
Fax: + 33 04 93 08 79 70  
informationfallprotection@mmm.com

### Australia & New Zealand

95 Derby Street  
Silverwater  
Sydney NSW 2128  
Australia  
Phone: +(61) 2 8753 7600  
Toll-Free : 1800 245 002 (AUS)  
Toll-Free : 0800 212 505 (NZ)  
Fax: +(61) 2 8753 7603  
anzfallprotection@mmm.com

### Asia

*Singapore:*  
1 Yishun Avenue 7  
Singapore 408731  
Phone: +65 - 65587758  
Fax: +65 - 65587058  
totalfallprotectio@mmm.com

### Shanghai:

19/F, L'Avenue, No.99 Xian Xia Rd  
Shanghai 200051, P R China  
Phone: +86 21 62539050  
Fax: +86 21 62539060  
3MFallProtecton-CN@mmm.com

**3M.com/FallProtection**

