Fall Protection

Certified to	Certified by
AS/NZS 1891.1:2007 Industrial fall-arrest systems and devices Harnesses and ancillary equipment Lic: BMP 689960	PRODUCT CERTIFICATION BSI Certified Product

PROTECTA P50
Energy-Absorbing Lanyards

USER INSTRUCTIONS
9598614 Rev. D

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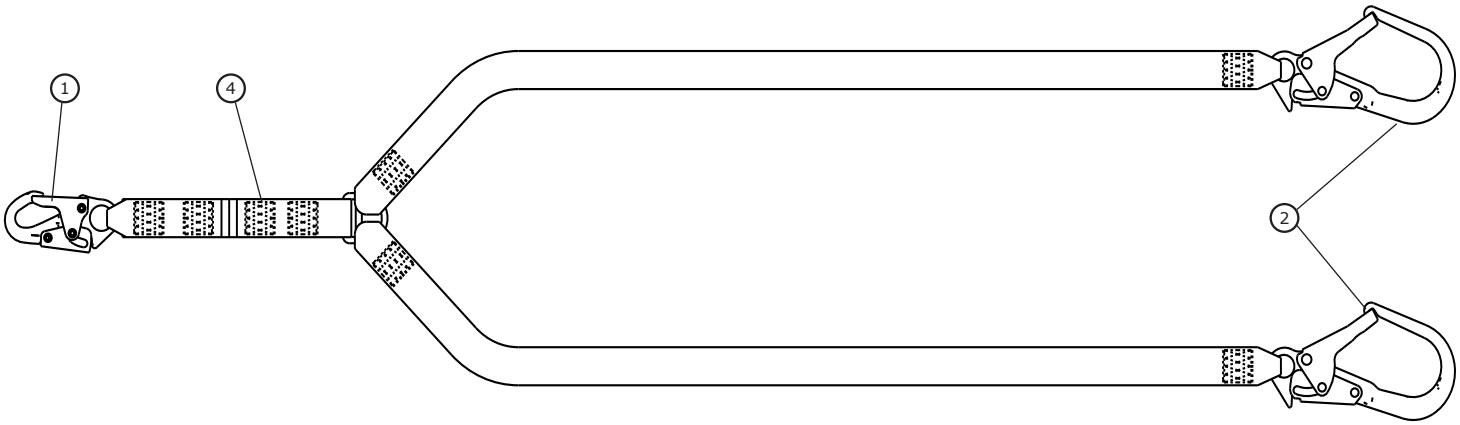

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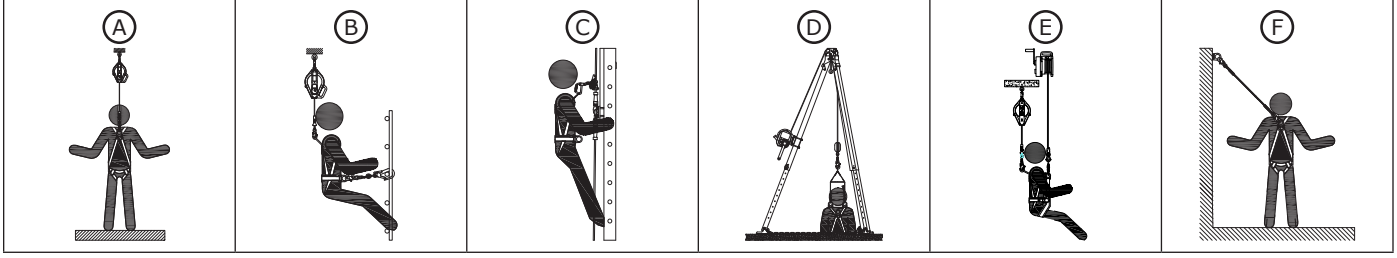
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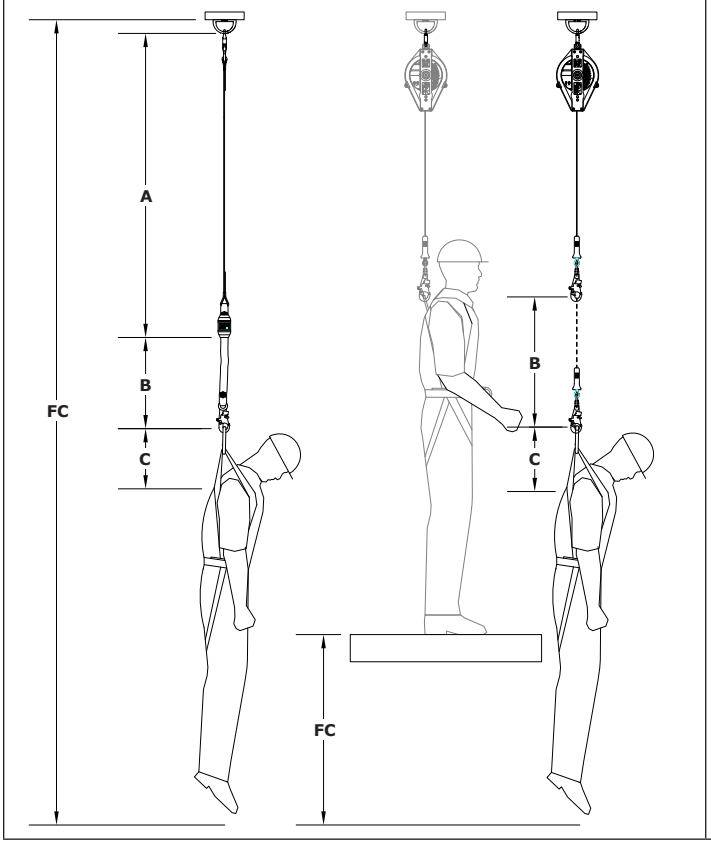
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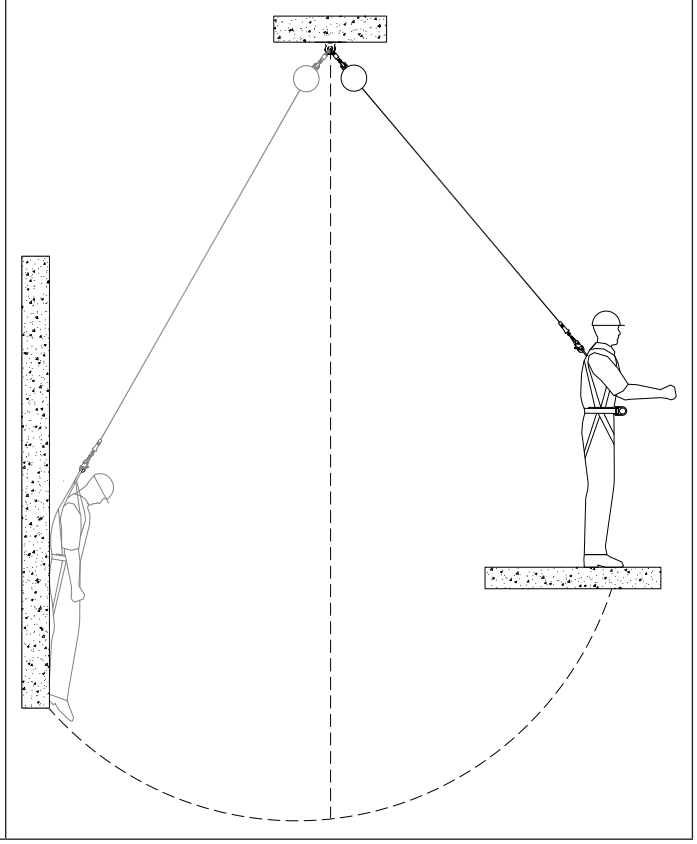

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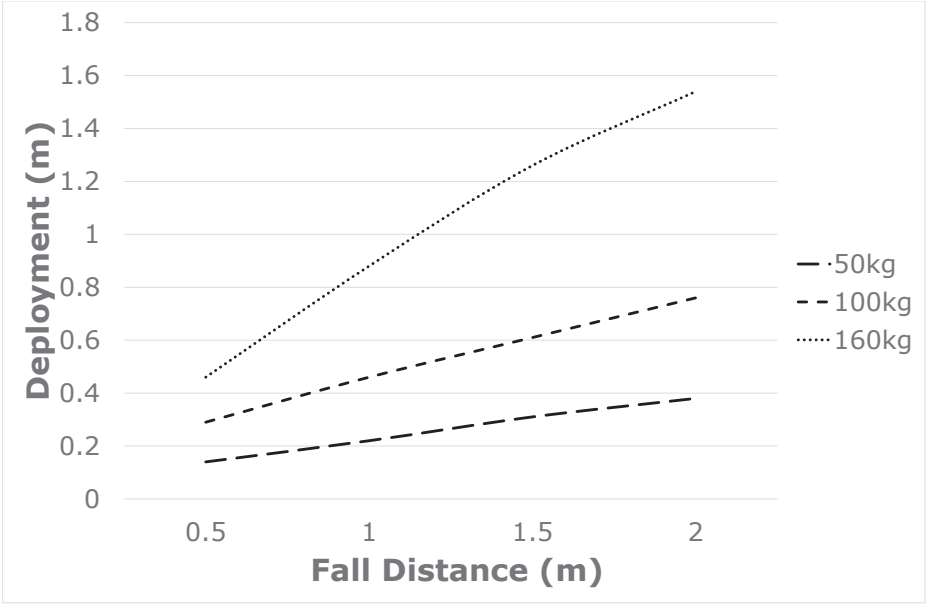
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1
0.8
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0
Deployment (m)
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1
1.5
2
Fall Distance (m)
50kg
100kg
160kg

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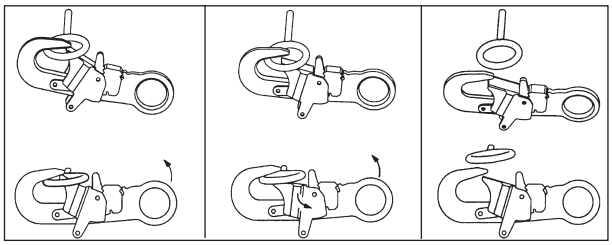
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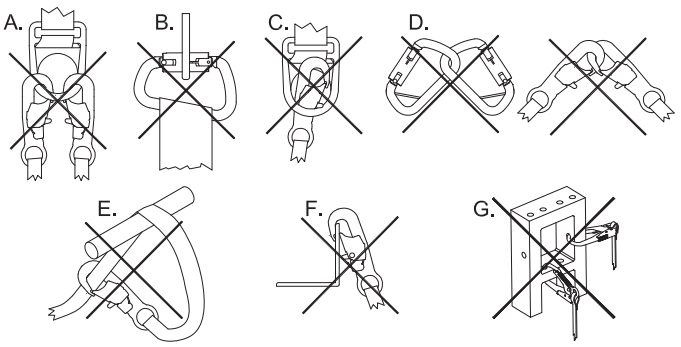
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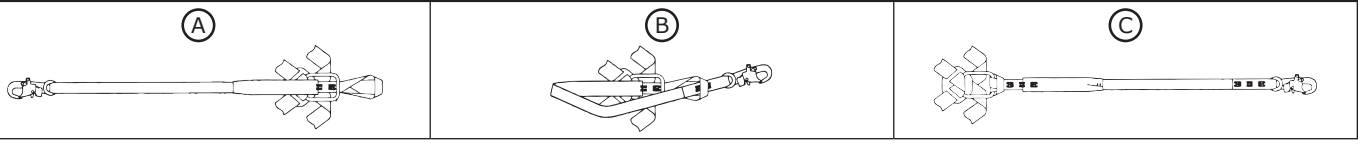
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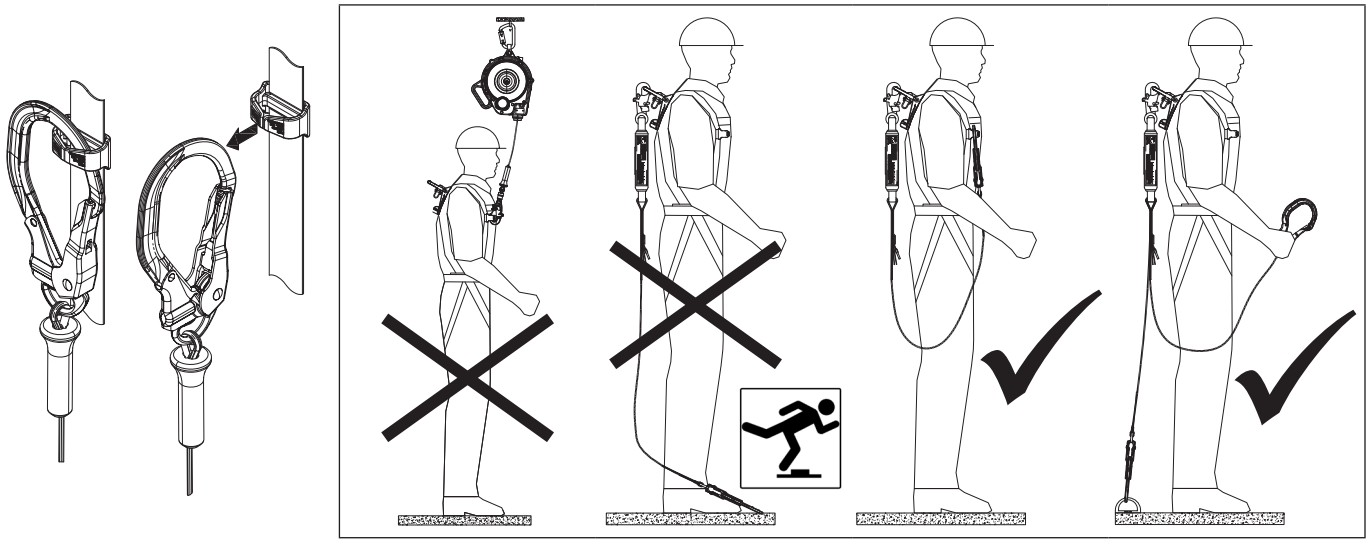

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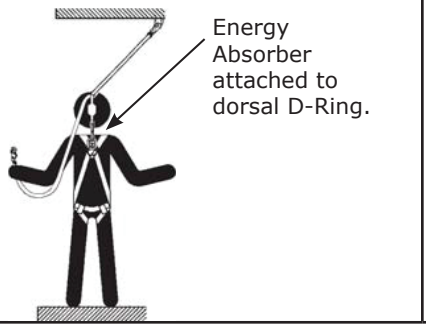
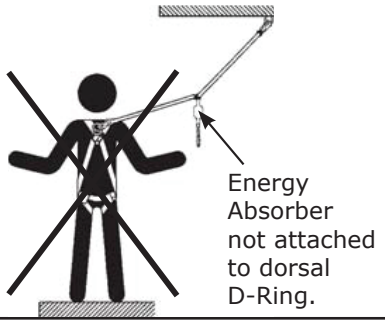
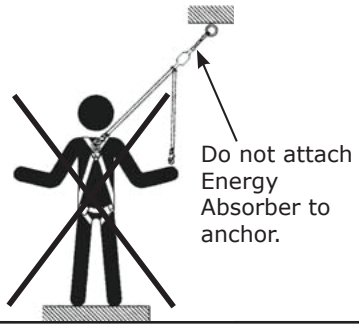
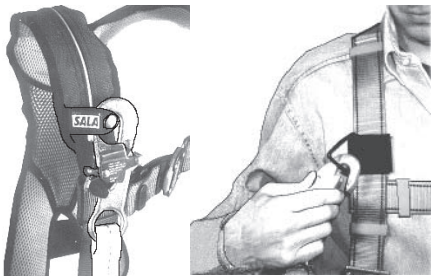

Energy
Absorber
attached to
dorsal D-Ring.

11


Energy
Absorber
not attached
to dorsal
D-Ring.

12


Do not attach
Energy
Absorber to
anchor.

13	14	15
		

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3M | PROTECTA Fall Protection

Item: Fall Arrest Lanyard
Part number: XXXXXXX
Serial Number: XXXXXX
Date of manufacture: (yy/mm/dd): YY/MM/DD
Date to be removed: (yy/mm/dd): YY/MM/DD

Only competent users should use this equipment
Manufacturers Instructions must be followed
Fall not to exceed 2m

PRODUCT CERTIFICATION
BSI Certified Product
AS/NZS 1891.1: 2007
Lic: BMP 689960

XW003897014 9598605 REV-F

SAFETY INFORMATION

Please read, understand, and follow all safety information contained in these instructions, prior to the use of this product. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

These instructions must be provided to the user of the equipment. Retain these instructions for future reference.

Intended Use:

This product is used as part of a complete Fall Protection system.

Use in any other application including, but not limited to, material handling, recreational or sports related activities, or other activities not described in these instructions, is not approved by 3M and could result in serious injury or death.

This product is only to be used by trained users in workplace applications.

⚠ WARNING

This product is used as part of a complete Fall Protection system. All users must be fully trained in the safe installation and operation of their complete Fall Protection system. **Misuse of this product could result in serious injury or death.** For proper selection, operation, installation, maintenance, and service, refer to all instruction manuals and manufacturer recommendations. For more information, see your supervisor or contact 3M Technical Services.

- **To reduce the risks associated with using an Energy-Absorbing Lanyard which, if not avoided, could result in serious injury or death:**
  - Inspect the product before each use and after any fall event, in accordance with the procedures specified in these instructions.
  - If inspection reveals an unsafe or defective condition, remove the product from service immediately and clearly tag it "DO NOT USE". Destroy or repair the product as required by these instructions.
  - Any product that has been subject to fall arrest or impact force must be immediately removed from service. Destroy or repair the product as required by these instructions.
  - Ensure that Fall Protection systems assembled from components made by different manufacturers are compatible and meet all applicable Fall Protection regulations, standards, or requirements. Always consult a Competent or Qualified Person before using these systems.
  - Ensure the lifeline is kept free from all hazards including, but not limited to: entanglement with users, other workers, moving machinery, other surrounding objects, or impact from overhead objects that could fall onto the lifeline or users.
  - Use appropriate edge protection when the lifeline may contact sharp edges or abrasive surfaces.
  - Do not twist, tie, or knot the product.
  - Avoid trip hazards with legs of the lifeline. If equipped, attach any unused legs of the lifeline to the lanyard parking attachment elements.
  - Do not exceed the number of allowable users as described in these instructions.
  - Ensure the product is configured and installed properly for safe operation as described in these instructions.
  - Use caution when installing, using, or moving the product as moving parts may create pinch points.
- **To reduce the risks associated with working at height which, if not avoided, could result in serious injury or death:**
  - Your health and physical condition must allow you to safely work at height and to withstand all forces associated with a fall arrest event. Consult your doctor if you have questions regarding your ability to use this equipment.
  - Never exceed allowable capacity of your Fall Protection equipment.
  - Never exceed the maximum free fall distance specified for your Fall Protection equipment.
  - Do not use any Fall Protection equipment that fails inspection, or if you have concerns about the use or suitability of the equipment. Contact 3M Technical Services with any questions.
  - Some subsystem and component combinations may interfere with the operation of this equipment. Only use compatible connections. Contact 3M Technical Services prior to using this equipment in combination with components or subsystems other than those described in these instructions.
  - Use extra precautions when working around moving machinery, electrical hazards, extreme temperatures, chemical hazards, explosive or toxic gases, sharp edges, abrasive surfaces, or below overhead materials that could fall onto you or your Fall Protection equipment.
  - Ensure use of your product is rated for the hazards present in your work environment.
  - Ensure there is sufficient fall clearance when working at height.
  - Never modify or alter your Fall Protection equipment. Only 3M, or persons authorized in writing by 3M, may make repairs to 3M equipment.
  - Before using Fall Protection equipment, ensure a written rescue plan is in place to provide prompt rescue if a fall incident occurs.
  - If a fall incident occurs, immediately seek medical attention for the fallen worker.
  - Only use a full body harness for Fall Arrest applications. Do not use a body belt.
  - Minimize swing falls by working as directly below the anchorage point as possible.
  - A secondary Fall Protection system must be used when training with this product. Trainees must not be exposed to an unintended fall hazard.
  - Always wear appropriate Personal Protective Equipment when installing, using, or inspecting the product.
  - Never work below a suspended load or worker.
  - Always maintain 100% tie-off.

☑ *Before using this equipment, record the product identification information from the ID label in the "Inspection and Maintenance Log" at the back of this manual.*

DESCRIPTION

Figure 1 defines available Protecta P50 Energy Absorbing Lanyard models. Lanyard models are available with various combinations of the following features:

	Figure 1 Reference:	**Description:**
Attachment Elements	①	Snap Hook
	②	Scaffold Hook
Buckles	③	Knurled Bar Adjuster
Labels	④	Labels

SPECIFICATIONS

Performance:	
Maximum Free Fall Distance	2 m (6.6 ft)
Maximum Arresting Force	6 kN (1,349 lb)
Capacity	160 kg (352 lb)

Materials:	
Webbing	Polyester - 27 kN (6,000 lb) Tensile Strength
Thread	Polyester Thread
D-Rings	Alloy Steel - 22.2 kN (5,000 lb) Tensile Strength
Snap Hook	Alloy Steel - 22.2 kN (5,000 lb) Body, 16 kN (3600 lb) Gate, 20 mm Gate Opening
Scaffold Hook	Alloy Steel - 22.2 kN (5,000 lb) Body, 16 kN (3600 lb) Gate, 65 mm Gate Opening

1.0 APPLICATIONS

1.1 PURPOSE: Energy absorbing lanyards are to be used as components in Personal Fall Protection System designed to prevent a fall or safely arrest a fall (see Figure 2). Lanyards are used in Fall Arrest and Restraint applications, as below:

Ⓐ	**Fall Arrest (AS/NZS1891.4):** Personal fall arrest systems typically include a Full Body Harness and a connecting subsystem (Energy Absorbing Lanyard, Self-Retracting Device, etc.). Maximum arresting force must not exceed 6 kN (1,349 lb). *Attachment Elements:* Dorsal (feet first with a 0.6 m maximum free fall when using a Self-Retracting Device or 2 m maximum free fall when using an Energy Absorbing Lanyard), Sternal (feet first with a 0.6 m maximum free fall), Frontal (feet first with a 0.6 m maximum free fall). *Anchorage Strength:* Selected anchorage must sustain loads of 15 kN (3,372 lb) or greater.
Ⓑ	**Work Positioning (AS/NZS1891.4):** Work positioning systems typically include a Full Body Harness, positioning lanyard, and a back-up personal fall arrest system. For work positioning applications, connect the work positioning subsystem (example: lanyard, Y-lanyard, etc.) to the lower (hip level) side or belt mounted work positioning attachment anchorage elements (D-Rings). Never use these connection points for fall arrest. Maximum free fall distance 0.6m (2 ft)Anchorage Strength: Selected anchorage must sustain loads of 12 kN (2698 lb) for single person use or 18kN (4047 lb) or greater for 2 person use.
Ⓒ	**Climbing (AS/NZS1891.3):** The Full Body Harness is used as a component of a climbing system to prevent the user from falling when climbing a ladder or other climbing structure. Climbing systems typically include a Full Body Harness, vertical cable or rail attached to the structure, and climbing sleeve. For ladder climbing applications, harnesses equipped with a frontal D-Ring in the sternal location may be used for fall arrest on fixed ladder climbing systems. *Attachment Elements:* Sternal. *Anchorage Strength:* Structure to which the climbing system is attached must sustain the loads required by the climbing system manufacturer's documentation.
Ⓓ	**Rescue:** The Full Body Harness is used as a component of a rescue system. Rescue systems are configured depending on the type of rescue. For limited access (confined space) applications, harnesses equipped with D-Rings on the shoulders may be used for entry and egress into confined spaces where worker profile is an issue.
Ⓔ	**Controlled Descent:** For controlled descent applications, harnesses equipped with a single sternal level D-Ring, one or two frontal mounted D-Rings, or a pair of connectors originating below the waist (such as a seat sling) may be used for connection to a descent or evacuation system.
Ⓕ	**Restraint (AS/NZS1891.4)**: The Full Body Harness is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a Full Body Harness and a lanyard or restraint line.

1.2 STANDARDS: Lanyards included in this manual conform to the standard(s) identified on the front cover of this instruction. If this product is resold outside the original country of destination, the re-seller must provide these instructions in the language of the country in which the product will be used.

1.3 TRAINING: It is the responsibility of the user and the purchaser of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

1.4 LIMITATIONS: Always consider the following application limitations before using this equipment:

- **CAPACITY:** The Energy Absorbing Lanyard is designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 160 kg (352 lb) and no less than 50 kg (110 lb). Make sure all of the components in your system are rated to a capacity appropriate to your application.
- **FREE FALL:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to 2 m (6.6 ft)[1]. Restraint systems must be rigged so that no vertical free fall is possible. Work positioning systems must be rigged so that free fall is limited to 0.6 m (2 ft) or less. Personnel riding systems must be rigged so that no vertical free fall is possible. Climbing systems must be rigged so that free fall is limited to 0.46 cm (18 in) or less. Rescue systems must be rigged so that no vertical free fall is possible.
- **FALL CLEARANCE:** Figure 3 and 5 illustrates the components of a Fall Arrest. There must be sufficient Fall Clearance (FC) to arrest a fall before the user strikes the ground or other obstruction. Clearance is affected by a number of factors including: (A) Lanyard Length, (B) Lanyard Deceleration Distance or SRL Maximum Arrest Distance, (C) Harness Stretch and D-Ring/Connector Length and Settling (typically a Safety Factor of 1 m). Refer to the instructions included with your Fall Arrest subsystem for specifics regarding Fall Clearance calculation.
- **SWING FALLS:** Swing Falls occur when the anchorage point is not directly above the point where a fall occurs (see Figure 4). The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as directly below the anchorage point as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a Self-Retracting Device or other variable length connecting subsystem is used.
- **EXTENDED SUSPENSION:** A Full Body Harness is not intended for use in extended suspension applications. If the user is going to be suspended for an extended length of time it is recommended that some form of seat support be used. 3M recommends a seat board, suspension work seat, seat sling, or a boatswain chair. Contact 3M for more information on these items.
- **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. If this product is exposed to a hazard, contact 3M Fall Protection to determine if the product can remain in service.

> ☑ *Although PVC coated and zinc plated hardware exhibit excellent corrosion resistance in chemical, acidic, alkaline, and atmospheric conditions, frequent inspections may be required. Consult with 3M if you question the use of this equipment in hazardous environments.*

1 ***Fall Arrest Free Falls:*** *Free falls greater than 2 m (6.6 ft) may be permitted when users are secured to the anchorage with a connecting subsystem which limits the arresting force to 6 kN (1,349 lbs) and is authorized for such use (i.e., Protecta Pro, DBI-SALA Force 2 and EZ-Stop Lanyards).*

2.0 SYSTEM USE

2.1 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[2], authorized persons[3], and rescuers[4].

2.2 INSPECTION FREQUENCY: The Energy Absorbing Lanyard shall be inspected by the user before and after each use and by a competent person[5] other than the user at intervals of no more than six months[6]. Inspection procedures are described in the *User Instruction Manual's "Inspection and Maintenance Log"*. Results of each Competent Person inspection should be recorded on copies of the *"Inspection and Maintenance Log"*.

> ☑ *Where required by 3M, due to complexity or innovation of the equipment; or where critical knowledge is needed in dismantling, reassembly, or assessment of the equipment, periodic examinations shall only be conducted by 3M or persons or organizations authorised by 3M.*

2.3 COMPATIBILITY OF COMPONENTS: 3M equipment is designed for use with 3M 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.

2.4 COMPATIBILITY OF CONNECTORS: Connectors are 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 3M 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 6). Connectors must be compatible in size, shape, and strength. If the connecting element to which a snap hook (shown) or carabiner attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or carabiner. This force may cause the gate to open, allowing the snap hook or carabiner to disengage from the connecting point. Self-locking snap hooks and carabiners are required.

2.5 MAKING CONNECTIONS: Use only self-locking snap hooks and carabiners with this equipment. Use only connectors that are suitable for each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

3M connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 7 for inappropriate connections. 3M 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.
- **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.

2.6 CONNECTING SUBSYSTEMS: Connecting subsystems (self-retracting lifeline, lanyard, rope grab and lifeline, cable sleeve, etc.) must be suitable for your application (See section 1.1). See the subsystem manufacturer's instructions for additional information. Some harness models have web loop connection points. Do not use snap hooks to connect to web loops. Use a self-locking carabiner to connect to a web loop. Ensure the carabiner cannot cross-gate load (load against the gate rather than along the major axis of the carabiner). Some lanyards are designed to choke onto a web loop to provide a compatible connection. Lanyards may be sewn directly to the web loop forming a permanent connection. Do not make multiple connections onto one web loop, unless choking two lanyards onto a properly sized web loop. To choke the lanyard on a web loop (Figure 8): A) Insert the lanyard web loop through the web loop or D-Ring on the harness. B) Insert the appropriate end of the lanyard through the lanyard web loop. C) Pull the lanyard through the connecting web loop to secure.

2.7 LANYARD PARKING: Figure 9 illustrates Lanyard Parking. The Lanyard Parking Attachment is for attaching the free end of a Lanyard or harness mounted Self-Retracting Device when not connected to an Anchorage Connection Point for purposes of fall protection. Lanyard Parking Attachments shall never be used as a Fall Protection Attachment Element.

When not connected to an Anchorage Connection Point, an unconnected Lanyard Leg must be properly parked on the harness or secured in the user's hand (as in 100% Tie-Off applications). Free hanging Lanyard Legs can trip the user or catch on surrounding objects resulting in a fall.

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2 ***User:*** *A person who performs activities at heights while protected by a personal fall protection system.*

3 ***Authorized Person:*** *A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.*

4 ***Rescuer:*** *Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.*

5 ***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.*

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

3.0 LANYARD USE

3.1 **BEFORE EACH USE** of this equipment inspect it according to the *"Inspection and Maintenance Log" (Table 1)*.

3.2 **PLAN** your system before use. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system:

- **Anchorage:** Select an anchorage capable of sustaining the Static Load requirements of the intended fall protection application (see Section 1.1). The anchorage location should address Free Fall, Fall Clearance, Swing Fall, and Environmental limitations described in Section 1.4.
- **Sharp Edges:** Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
- **After A Fall:** Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed.
- **Rescue:** The employer must have a rescue plan when using this equipment. The employer must have the ability to perform a rescue quickly and safely.
- **Rescue Harness:** Rescue Harnesses are intended to be worn during normal work activities. Before using rescue attachment elements for the first time, the user should carry out a suspension test in safe conditions to ensure the harness is sized and fitted for optimal comfort during suspension.

3.3 **CONNECTING:** To body support. Energy absorbing lanyards should be connected to the body support first and then connected to the rest of the system. Always connect the energy absorber end of the lanyard to the D-Ring on the back between the shoulders (dorsal D-Ring) on a full body harness. 3M Fall Protection does not recommend using a body belt for fall arrest applications. If using a body belt, connect the energy absorbing end of the lanyard to the D-Ring and position the belt so the D-Ring is located on the back side of the body. When connecting a system component to the dorsal, or other non visible attachment, the connection should be inspected by another person to ensure a proper connection has been made and the connector's gate has closed correctly. Alternatively, where suitable, the system components may be connected prior to donning the harness.

3.4 **CONNECTING:** To the anchorage or anchorage connector. Some anchorage connector devices may be supplied with a permanently attached energy absorber. Use of an additional energy absorber or energy absorbing lanyard with this lanyard system is not recommended. Where possible, the lanyard end should be connected to an anchorage or anchorage connector above the dorsal attachment of the user to limit free fall.

3.5 **100% TIE-OFF LANYARD CONSIDERATIONS:** Commonly known as 100% tie-off , "Y" type, twin leg, or double lanyards; these energy absorbing lanyards can be used to provide continuous fall protection while ascending, descending, or moving laterally. With one lanyard leg attached, the worker can move to a new location, attach unused lanyard leg, and disconnect attached leg. This procedure is repeated until a new location is reached. Other practices that must be followed in order to use a 100% tie-off type lanyard safely include:

1. The energy absorber portion of the lanyard must be connected to the dorsal D-Ring only. Use only the snap hook (or other connector provided) to attach the energy absorber portion directly to the harness dorsal D-Ring. See Figures 10 and 11
2. Do not connect the energy absorber to the anchorage. See Figure 12.
3. Do not attach the unused leg of the lanyard back to the harness at any location unless a specially designed lanyard retainer is provided for this purpose. See Figure 13.
4. Connection of both lanyard legs to separate anchorage points is acceptable. See Figure 14.
5. When leapfrogging from one anchorage point to the next (such as traversing a horizontal or vertical structure) do not connect to anchorage points that are further apart than the lanyard length (as marked on the lanyard label). See Figure 15.
6. Never connect more than one person to a "Y" type lanyard at a time.

4.0 INSPECTION

4.1 INSPECTION FREQUENCY: The Protecta P50 Energy Absorbing Lanyard must be inspected at the intervals defined in Section 2.2. Inspection procedures are described on the *"Inspection and Maintenance Log" (Table 1)*.

4.2 DEFECTS: If inspection reveals a defective condition, or is deemed unsuitable for use by a competent person, remove unit from service immediately and destroy.

4.3 PRODUCT LIFE: The functional life of Protecta P50 Lanyards is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service for up to 10 years from the date of manufacture.

5.0 MAINTENANCE, SERVICING, STORAGE

5.1 CLEANING INSTRUCTIONS: Clean the Protecta P50 Energy Absorbing Lanyard as follows:

1. Spot clean the Lanyard legs with water and a mild soap solution. Do not get the energy absorbing element of the lanyard wet.

   ☑ *Use a bleach-free detergent when washing the Lanyard. Fabric softener SHOULD NOT be used when laundering and drying the lanyard.*

2. Water temperature for wash and rinse must not exceed 70° C (160° F).

3. The Lanyard must be air dried, do not tumble dry.

   ☑ *More information on cleaning is available from 3M. If you have questions concerning the condition of your Lanyard, or have any doubt about putting it into service, contact 3M.*

5.2 AUTHORIZED SERVICE: Additional maintenance and servicing procedures must be completed by a factory authorized service center. Authorization must be in writing. Do not attempt to alter the unit in any way.

5.3 STORAGE AND TRANSPORT: Store and transport the Protecta P50 Energy Absorbing Lanyard in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect the harness after extended storage.

6.0 LABELING:

Figure 16 illustrates product labels and their location on the Protecta P50 Energy Absorbing Lanyard. All labeling must be present and fully legible.

Table 1 – Inspection and Maintenance Log

Serial Number(s):	**Date Purchased:**
Model Number:	**Date of First Use:**

Inspection Date:	**Inspected By:**

Component:	**Inspection:** ***(See Section 2.2 for Inspection Frequency)***	**User**	**Competent Person**
Harness Hardware	Inspect lanyard hardware including adjusters, Hooks, D-rings etc. These items must not be damaged, broken, or distorted, and must be free of sharp edges, burrs, cracks, worn parts, or corrosion. Ensure hardware is work smoothly.	☐	☐
Webbing & Stitching	Inspect webbing; material must be free of frayed, cut, or broken fibers. Check for tears, abrasions, mold, burns, or discoloration. Inspect stitching; Check for pulled or cut stitches. Broken stitches may be an indication that the harness has been impact loaded and must be removed from service.	☐	☐
Labels	All labels should be present and fully legible. See Figure 13	☐	☐
Energy Absorber	Inspect the energy absorber has not been deployed. Deployed section (1).	☐	☐
System & Subsystem Components	Inspect each system component or subsystem according to the manufacturer's instructions.	☐	☐

Diagram 1 – Damaged Web

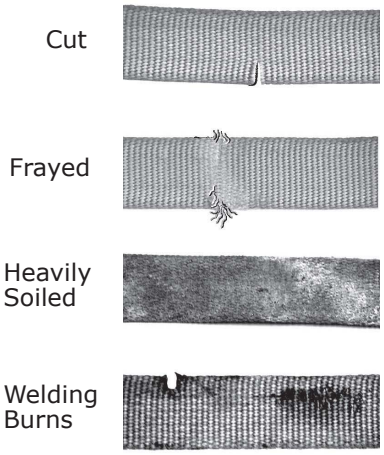
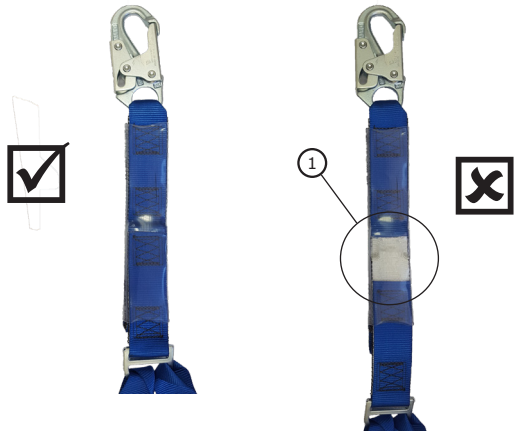


Diagram 2 – Deployed Energy Absorber



Corrective Action/Maintenance:	Approved By:
	Date:
Corrective Action/Maintenance:	Approved By:
	Date:
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Corrective Action/Maintenance:	Approved By:
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Corrective Action/Maintenance:	Approved By:
	Date:

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3M reserves the right to require that the equipment be returned to its plant for inspection before determining the appropriate course of action.

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