SAFETYLINK
A DELTA PLUS GROUP COMPANY

V-Line

Vertical Lifeline

Use

Figure 1

	PRODUCT CODE	SHUTTLE MATERIAL	KARABINER MATERIAL	KARABINER ACTION	KARABINER SWIVEL
	**VLINESHUT001**	Stainless steel	Steel	Double action	No
	**VLINESHUT002**	Stainless steel	Steel	Double action	Yes

SCAN ME

Safety Centre Online Training

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Catalogue

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Handbook

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1 Warning

⚠ ***Improper Use, Installation or Maintenance may result in serious injury or death.***

⚠ ***The structure or anchorage to which SafetyLink products are to be installed shall be assessed by a professional engineer to ensure it has adequate strength to support the product.***

⚠ ***SafetyLink products shall be installed, used and maintained in accordance with the applicable SafetyLink installation and use manual.***

⚠ ***SafetyLink's product shall be used in accordance with the current working at height standards, codes of practice, regulation or legislation in the region of use.***

⚠ ***During installation, use and maintenance, personnel shall not be exposed to a fall hazard.***

⚠ ***Installation is to be carried out by, or under the supervision of, a competent person.***

⚠ ***The installer shall complete the applicable SafetyLink online training modules before installing this product.***

⚠ ***Connection systems used with SafetyLink Anchor, Lifelines and Rigid Rail Systems shall contain a personal energy absorber.***

⚠ ***Do not carry out any modifications to this product without written permission from SafetyLink.***

2 Specification

2.1 Description

The SafetyLink V-Line is a Vertical Lifeline suitable for use as part of a personal fall protection system. The V-Line offers a Vertical Lifeline with one or multiple shuttles for users to attach with. The V-Line allows users to climb a vertical structure or ladder along a permanently mounted safety cable system.

2.2 Standard

The V-Line Vertical Lifeline System is compliant with AS/NZS 1891.3, EN353.1.

Refer to AS/NZS1891.4 for selection, use and maintenance of anchors and more information on the following topics.

I the traceability of the anchor;
II multiple anchor system design;
III anchor installation location;
IV visual inspection before use;
V compatibility of connectors;
VI inspection frequency; and
VII removal from service.

2.3 User Rating

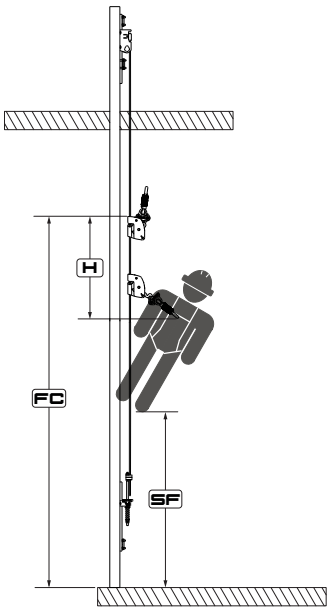
The V-Line Vertical Lifeline is rated for up to 4 users per system with a maximum user weight of 150kg and a minimum of 50kg. See the system label for a specific system rating.

3 Limitations of Use

3.1 Fall Clearance

When planning your fall protection system, it is important to accurately assess all components of your system in order to avoid injury. Figure 2 provides guidance on how to calculate fall clearance. In Figure 5, (H) represents free fall for the shuttle (0.3m), energy absorber deployment (0.4m), as well as the estimated D-ring side of the harness (Refer the manufacturer's information), (SF) represents the recommended safety factor of 1m, (FC) represents the total allowable fall clearance. For safe use (FC) shall always be greater than H + SF.

Figure 2

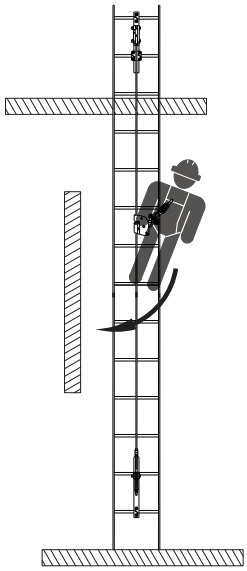


3.2 Swing Fall

Working off centre of a Vertical Lifeline may cause a swing fall. See Figure 3. Fall protection systems shall be setup in such a way to limit swing fall.

⚠ ***The force of striking an object during a swing fall may result in serious injury or death.***

Figure 3



3.3 Hazards

Use of this equipment in the presence of hazards may cause damage to the equipment and/ or result in the function of the equipment being impeded. These hazards include but are not limited to; extreme temperature, sharp edges, chemical reagents, electrical conductivity, abrasion, cutting, climatic exposure and rotating or moving machinery.

3.4 Training

It is essential that all users are trained in the proper inspection, setup and use of this equipment. It's the responsibility of the user to ensure they are trained in the correct use of this equipment and understand the limitations of its use.

⚠ ***Incorrect use of this equipment may result in serious injury of death.***

3.5 Rescue

It is the responsibility of the user of this equipment and their employer to have a suitable rescue plan and the ability to implement it at any time during setup and use of this equipment.

4 Connections

4.1 Making Connection

Only make compatible connections. Always ensure connectors close and lock correctly before use. Below and Figure 5 are examples of unsuitable connections;

1 To an anchor or D-ring which has another connector attached.

2 In a position that will apply load to the gate mechanism.

3 By passing the connection through the attachment.

4 Connecting a connector to another connector.

5 Around a structure and back to the lifeline.

6 To an attachment that will limit the function of the gate.

7 To a location that will not load the connector as designed.

4.2 Compatibility of Connections

Connection made to and with this equipment shall be compatible. Connector shall be compatible shape, size and equivalent rating in order to ensure a compatible connection is made. Incompatible connections may cause loading of the gate mechanism leading to unintentional disengagement. See Figure 4. Connectors shall be compliant with EN362 and auto closing and locking.

⚠ ***Making incompatible or unsuitable connection may result in unintentional disengagement of the connector resulting in serious injury or death.***

Figure 4

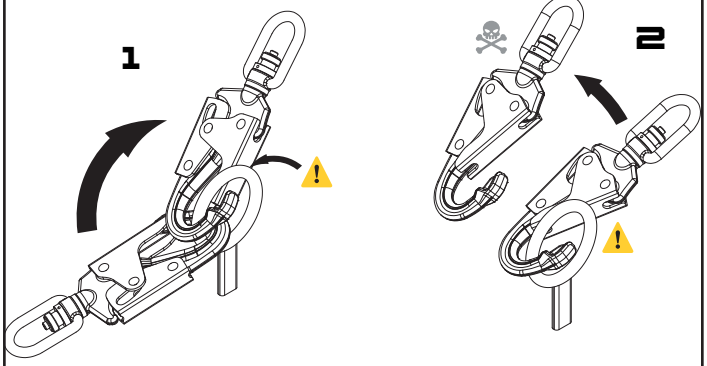
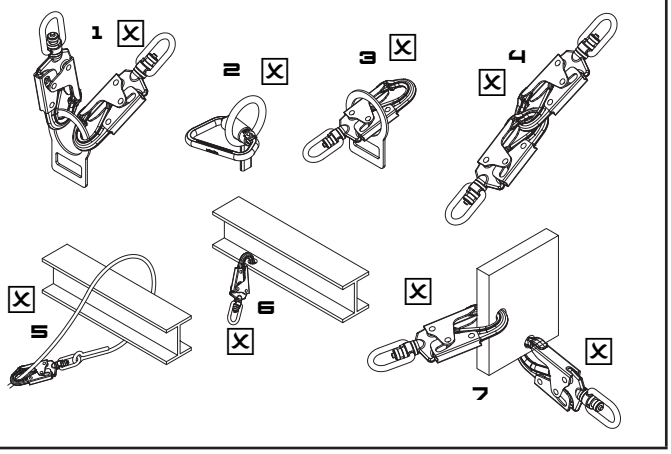


Figure 5



5 Use

5.1 Planning

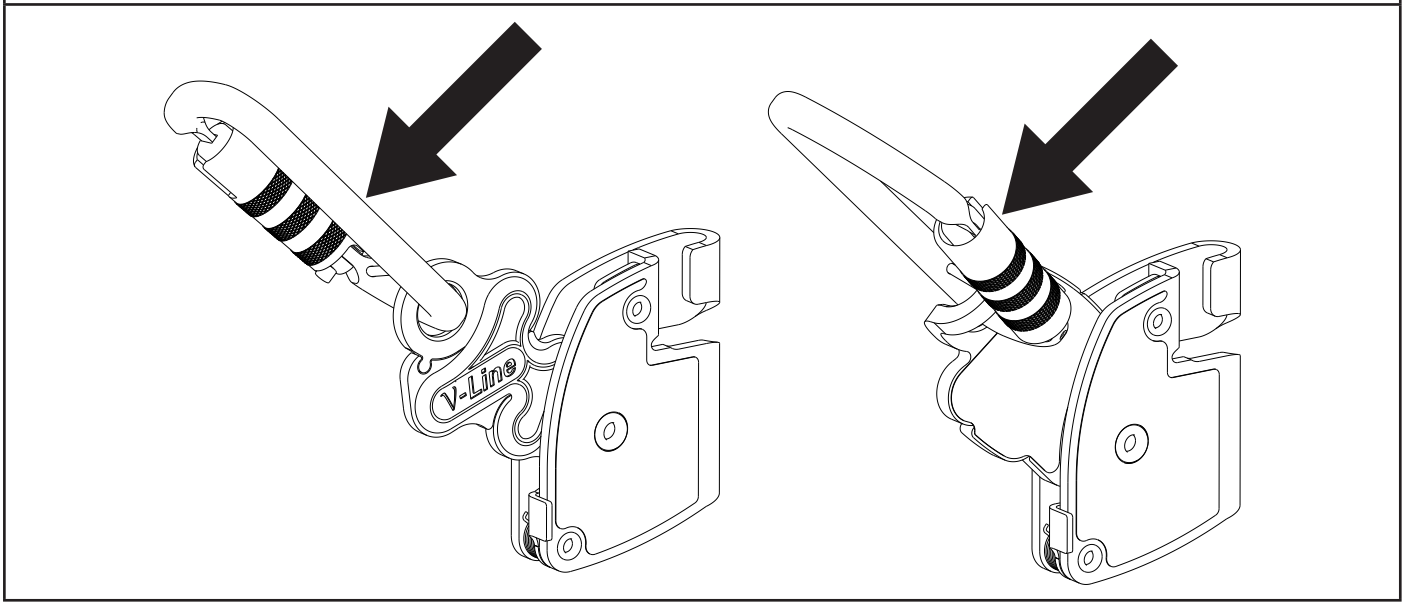
Before starting work, plan your working at heights and rescue systems by accounting for all hazards present in the work place and allowing for the available fall clearance. Ensure all users are fit, healthy and capable of safely operating this equipment as well as implementing the rescue plan.

⚠ ***During use always allow for the required fall clearance, swing fall and hazards present in the work place.***

5.2 Connection to the V-Line Shuttle to the User

The V-Line is supplied with an integral connector for connection to the users harness. See Figure 6.

Figure 6



⚠ ***Each shuttle is for a single user. Do not attach multiple users to a single shuttle.***

⚠ ***Do not attach to any other point on the V-Line Shuttle or Vertical Lifeline.***

⚠ ***Do not extend the V-Line shuttle with additional connectors or lanyards.***

5.3 Connecting the V-Line Shuttle to the System

1 Lift the attachment lever to the top position.

2 Rotate the latch to fully open.

3 Tilt the device 45 degrees till the slot in the front aligns with the cable.

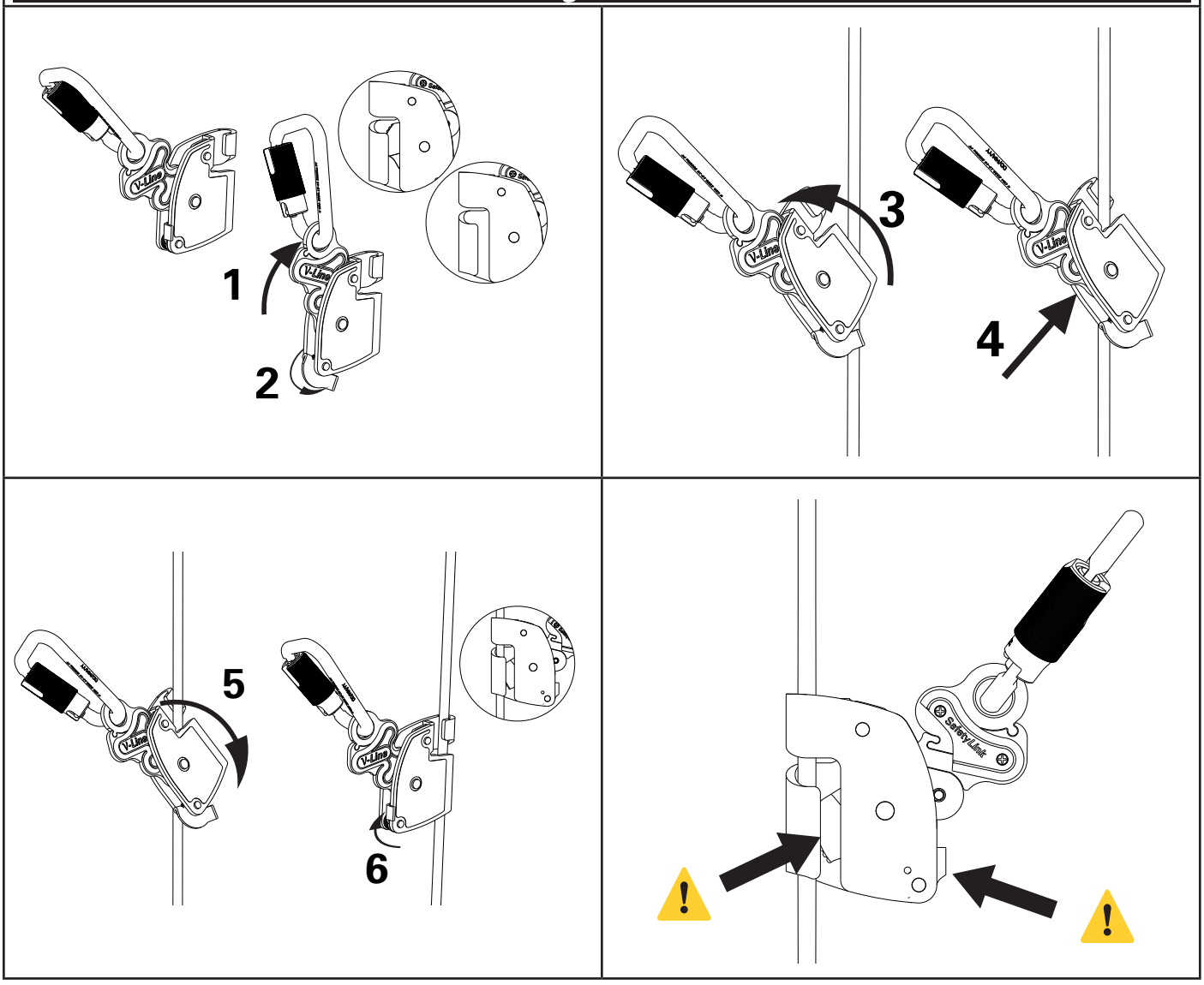
4 Push the device on to the cable.

5 Rotate the device back in to the vertical plan.

6 Release the latch.

⚠ ***Ensure the latch completely closes automatically and the cam covers the cable entry slot.***

Figure 7

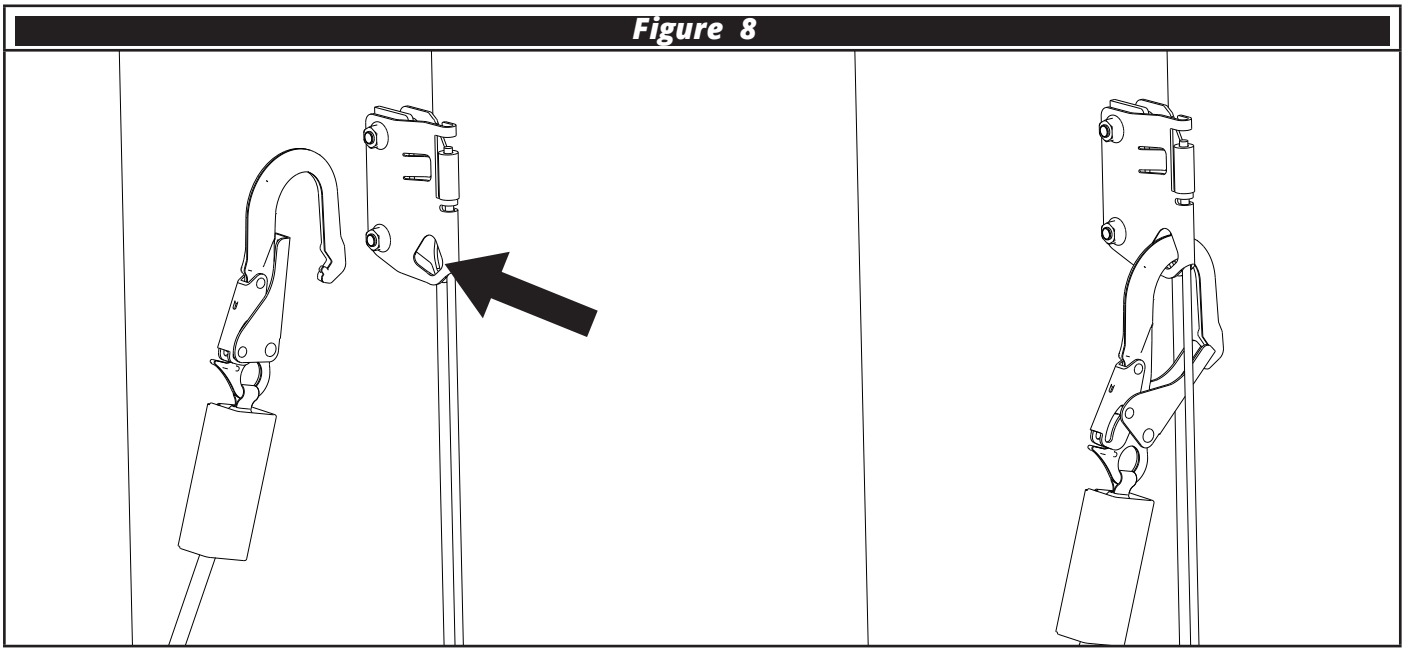


5.4 Connecting to the V-Line System

The V-Line top bracket has a single point anchor to assist the transition from the V-Line system to another fall protection system. See Figure 8.

⚠ ***Do not connect to any other part of the system.***

Figure 8



6 Storage, Transport and Maintenance

6.1 Storage and transport

This equipment shall be stored and transported in a cool, dry environment, away from any hazards and out of direct sunlight.

6.2 Maintenance

6.2.1 The V-Line system is serviceable only by trained and authorised installers. Contact SafetyLink to find your nearest available installer. The service interval will be determined by the condition in which it is used. Harsher conditions will require more frequent servicing. The equipment may remain in service until it fails an inspection or is involved in a fall.

6.2.2 The V-Line Shuttle is non serviceable. The equipment may remain in service until it fails an inspection or is involved in a fall.

⚠ ***Do not attempt to modify or disassemble this product.***

6.3 Cleaning

The V-Line Vertical Lifeline may be cleaned by the end user periodically to increase service life. After cleaning, the product shall undergo the pre-use inspection.

Cable and Brackets - Clean with a rag and warm water to remove dirt and grit. A mild detergent may be used to remove grease or oils from the product.

Shuttle - Clean Shuttle with a rag and warm water to remove dirt and grit. A mild detergent may be used to remove grease or oils from the product.

⚠ ***Do not store this product when wet. Allow the product to dry and conduct a pre-use inspection prior to return the item to service.***

7 Inspection

7.1 Before and After Use

The V-Line Vertical Lifeline shall be inspected before and after each use by the user.

7.2 Competent Person

A competent person shall inspect the shuttle at least every 6 months.

A competent person shall inspect the system every 12 months. Systems installed in harsher conditions will require more frequent inspection. Installations in marine, coastal or other extreme corrosive environments should be inspected at least every 6 months.

As per AS/NZS1891.4, the inspection can be postponed if the component is not expected to be used within the time period given. If the inspection period has expired, then the component shall be inspected prior to use by a competent person, in accordance with this manual.

7.3 Procedure

7.3.1 Cable - inspect the cable for damage, deformation, broken wires or strands, or debris that may affect the strength of the cable or impede the Shuttle.

7.3.2 Top Bracket - inspect all fasteners are present and tight. Inspect the stainless steel for chips, cracks, discolouration, damage to the protective coating, bending or warping. Inspect any welds for corrosion, discolouration or damage. Inspect any steel tubes for damage of the galvanising, deformation or corrosion.

7.3.3 Bottom Bracket - inspect all fasteners are present and tight. Inspect the stainless steel for chips, cracks, discolouration, damage to the protective coating, bending or warping. Inspect any welds for corrosion, discolouration or damage. Inspect any steel tubes for damage of the galvanising, deformation or corrosion.

7.3.4 Tension - inspect all fixings are present and tight. Inspect fixings are free of damage, debris, cracks, and corrosion.

7.3.5 Cable Guides - inspect all fixings are present and tight. Inspect the galvanised coat is free of chips, cracks, corrosion or damage. Inspect the rubber end accepts and holds the cable, is free of cracks and missing piece.

7.3.6 Shuttle - inspect the housing is free of cracks, damage or deformation. Inspect the energy absorber is not deployed. Inspect the connector is free of cracks, damage or deformation and functions correctly. Ensure all screws are present and not loose. Inspect the latch opens freely and closes automatically.

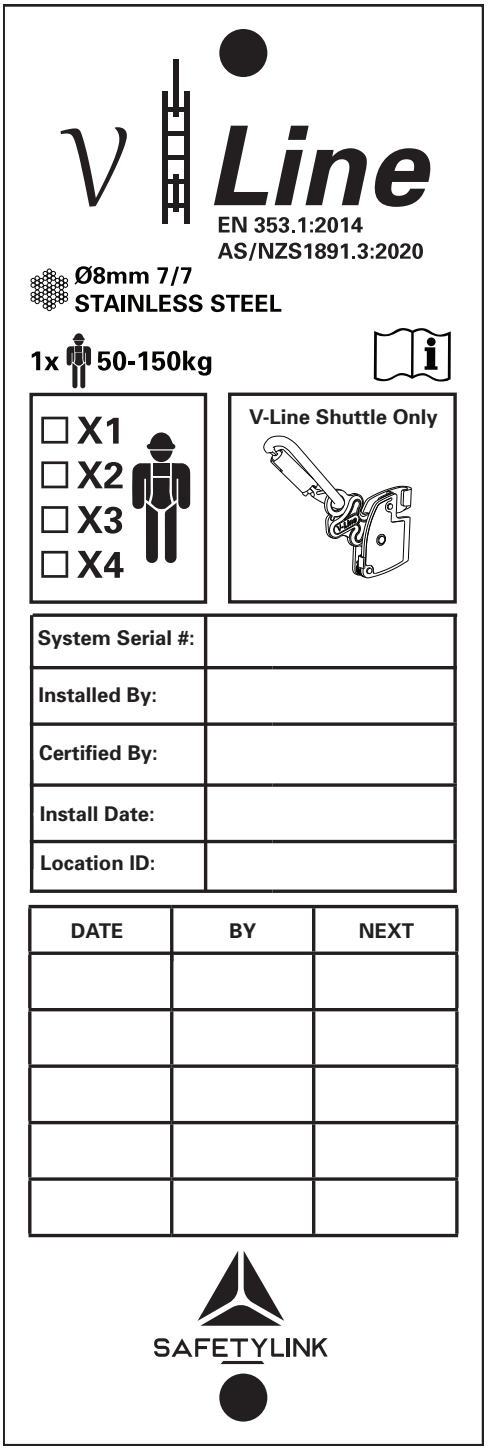
7.3.7 Proof Load - for competent person inspections only, concrete fixings that do not extend through the concrete shall be proof loaded to 50% of the design load and held for 30 seconds.

7.3.8 Label - inspect the system label is present and legible as per Figure 9.

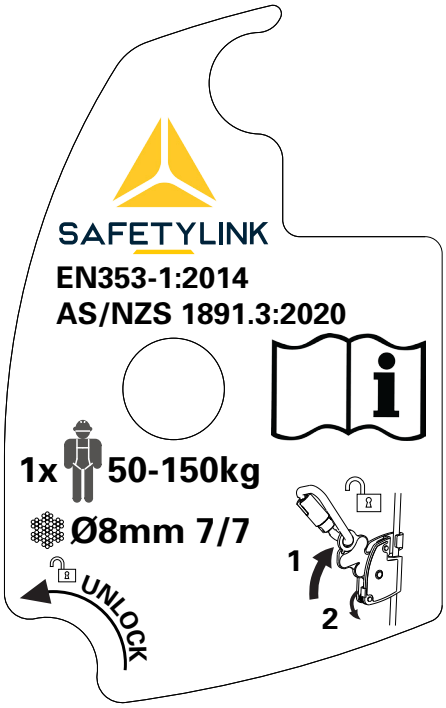
INSPECTION RECORD			
Product Code		Date of Manufacture	
Serial or Batch No.		Date of Install	
Inspector		Date of Inspection	

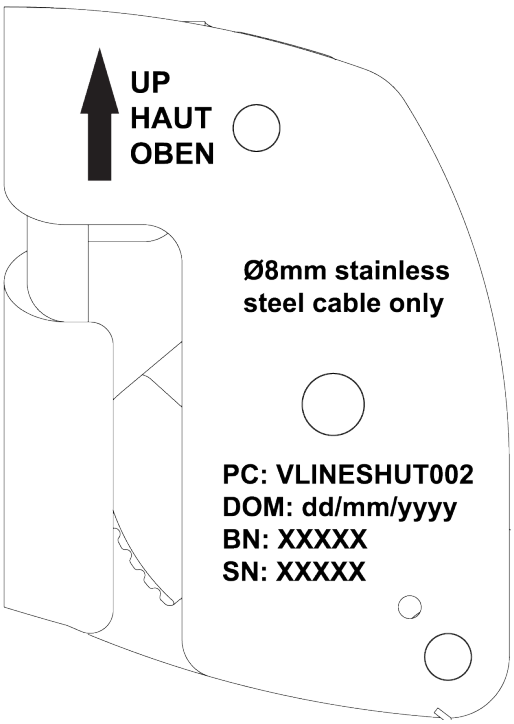
PROCEDURE	INSPECTION	USER	COMPETENT PERSON
7.3.1	Cable - inspect the cable for damage, deformation, broken wires or strands, or debris that may affect the strength of the cable or impede the Shuttle.	☐	☐
	Comments:		
7.3.2	Top Bracket - inspect all fasteners are present and tight. Inspect the stainless steel for chips, cracks, discolouration, damage to the protective coating, bending or warping. Inspect any welds for corrosion, discolouration or damage. Inspect any steel tubes for damage of the galvanising, deformation or corrosion.	☐	☐
	Comments:		
7.3.3	Bottom Bracket - inspect all fasteners are present and tight. Inspect the stainless steel for chips, cracks, discolouration, damage to the protective coating, bending or warping. Inspect any welds for corrosion, discolouration or damage. Inspect any steel tubes for damage of the galvanising, deformation or corrosion.	☐	☐
	Comments:		
7.3.4	Tension - inspect all fixings are present and tight. Inspect fixings are free of damage, debris, cracks, and corrosion.	☐	☐
	Comments:		
7.3.5	Cable Guides - inspect all fixings are present and tight. Inspect the galvanised coat is free of chips, cracks, corrosion or damage. Inspect the rubber end accepts and holds the cable, is free of cracks and missing piece.	☐	☐
	Comments:		
7.3.6	Shuttle - inspect the housing is free of cracks, damage or deformation. Inspect the energy absorber is not deployed. Inspect the connector is free of cracks, damage or deformation and functions correctly. Ensure all screws are present and not loose. Inspect the latch opens freely and closes automatically.	☐	☐
	Comments:		
7.3.7	Proof Load - for competent person inspections only, concrete fixings that do not extend through the concrete shall be proof loaded to 50% of the design load and held for 30 seconds.	**N/A**	☐
	Comments:		
7.3.8	Label - inspect the system label is present and legible as per Figure 9.	☐	☐
	Comments:		

Figure 9



SYSTEM LABEL





SHUTTLE MARKINGS

WARRANTIES

EXTRACT: SAFETYLINK PTY LTD STANDARD TERMS AND CONDITIONS

1.1 To the extent permitted by law all implied conditions, warranties and undertakings are expressly excluded.
1.2 Except as provided in this clause the Company shall not be liable for any loss or damage, whether direct or indirect (including consequential losses or damage) arising out of any breach of contract by the Company or any negligence of the Company, its employees or agents.
1.3 Should the Company be liable for a breach of a guarantee, condition or warranty implied by the Australian Consumer Law (not being a guarantee, condition or warranty implied by sections 51, 52 and 53 of that Law) then its liability for a breach of any such condition or warranty express or implied shall be limited, at its option, to any one or more of the following.

A in case of Goods
- I the replacement of the Goods or the supply of equivalent Goods.
- II the repair of the goods,
- III the payment of the cost of replacing the Goods or acquiring equivalent Goods.
- IV the payment of the cost of having the Goods repaired. Provided that any such Goods are returned to the Company by the Purchaser at the Purchaser's expense.

B in the case of services
- I the supply of the services again,
- II the payment of the cost of having the services supplies again.

1.4 The Company is not liable for the costs of recovery of the Goods from the field, loss of use of the Goods, loss of time, inconvenience, incidental or consequential loss or damage, nor for any other loss or damage other than as stated above, whether ordinary or exemplary, caused either directly or indirectly by use of the Goods.
1.5 The Company warrants that at the time of shipment, Products manufactured by it will be free from defects in material and workmanship. In the absence of a modified written warranty, the Company agrees to making good any such defects by repairing the same or at the Company's option by replacement, for a period of (1) one year from the date of shipment. This limited warranty applies provided that:

a defects have arising solely from faulty materials or workmanship;
b the Products have not received maltreatment, inattention or interference;
c the Products have been installed in accordance with the Company's Installation Handbooks using only products supplied by the Company;
d accessories used with the Products are manufactured by or approved by the Company
e the Products are maintained in accordance with Australian Standard 1891.4 (section 9).
f you notify any claim under this warranty to SafetyLink in writing to the address below no later than 14 days after the event or occurrence concerning the produce giving rise to the claim and you pay all costs related to your claim.

This warranty does not apply to any defects or other malfunctions caused to the Goods by accident, neglect, vandalism, misuse, alteration, modification or unusual physical, environment or electrical stress.

Please note that the benefits to the purchaser (as a consumer) given by this warranty are in addition to your other rights and remedies under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

1.6 If any goods are not manufactured by the Company, the guarantee of the manufacturer thereof shall be accepted by the Purchaser as the only express warranty given in respect of the goods.
1.7 Except as provided in this clause 11, all express and implied warranties, guarantees and conditions under statute or general law as the merchantability, description, quality, suitability or fitness of the Products for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded (to the extent to which they may be excluded by law).

PLEASE SEE SAFETYLINK PTY LTD FULL STANDARD TERMS OF CONDITIONS OF SALE FOR FURTHER REFERENCE.

bsi ISO 9001 Quality Management Systems CERTIFIED
FS 707792

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