



**SafetyLink®**

*Innovative  
Fall Protection*

# X-RAIL

## HORIZONTAL RIGID ANCHOR LINE

## USER INSTRUCTION



Concrete



Steel



4  
max

Per System



Fall Arrest



Rope Access










MULTI-DIRECTIONAL  
360°

**FIGURE 1**



## 1 Warning

-  ***Improper Use, Installation or Maintenance may result in serious injury or death.***
-  ***The building or structure for the anchorages should be assessed by an engineer to ensure that the structure is adequate for X-Rail installation works.***
-  ***SafetyLink's Height Safety Systems must only be installed as per our installation guides, to structures as specified in the installation manual for each product.***
-  ***All safety procedures must be complied with in accordance with the current safety code(s) of practice(s) for working at heights in your region. Ensure safety at all times by being attached to suitable anchor points and approved safety equipment or approved scaffolding.***
-  ***Installation is to be carried out by, or under the supervision of, a competent person.***
-  ***A personal energy absorber or a fall-arrest device with a personal energy absorber must be used in conjunction with all SafetyLink Anchorages and Lifeline systems.***
-  ***Do not carry out any modifications on this system without written permission by SafetyLink Pty Ltd.***

## 2 Specification

### 2.1 Description

The SafetyLink X-Rail is a Rigid Anchor Line suitable for use as part of a personal fall protection system. The X-Rail offers a horizontal Rigid Anchor Line with one or multiple Mobile Anchor Points for attaching to. The X-Rail can be installed in three orientations; overhead, wall and floor.

### 2.2 Standard

The X-Rail Rigid Anchor Line System is compliant with AS/NZS 1891.2, EN795:2012 and PD CEN/TS 16415:2013.

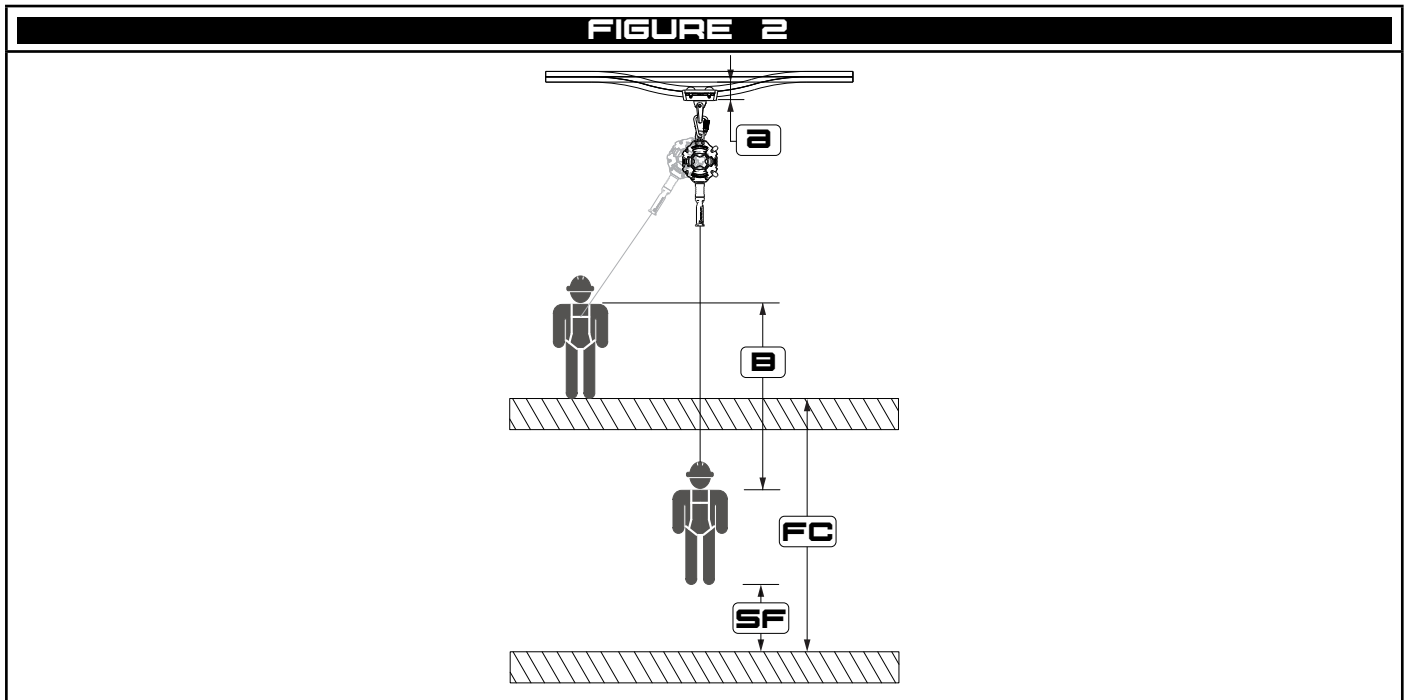
### 2.3 User Rating

The X-Rail Rigid Anchor Line is rated for up to 4 users per system and in any span.

### 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, (A) represents the deflection Rigid Anchor Line see Figure 3, (B) represents free fall, energy absorber deployment 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  $A+B + SF$ .



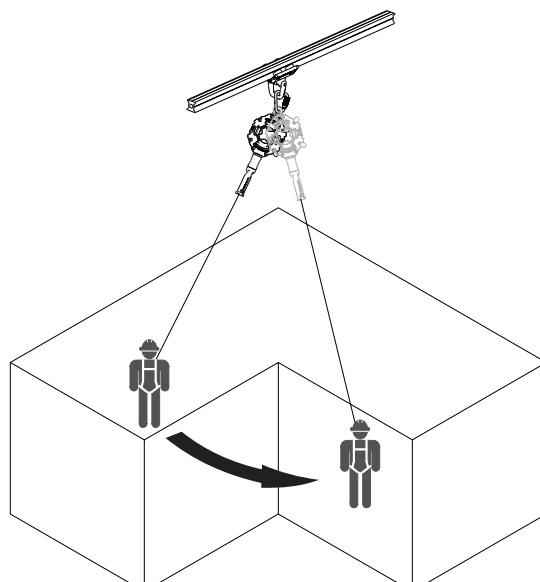
<b>FIGURE 3</b>	
<b>SPAN LENGTH</b>	<b>MAXIMUM DEFLECTION (4 PERSONS)</b>
1000mm	50mm
2000mm	130mm
3000mm	180mm
4000mm	220mm
5000mm	250mm

#### 3.2 Swing Fall

Working off centre of a horizontal line or rail may cause a swing fall. See Figure 4. 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 4**



### **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 or 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**

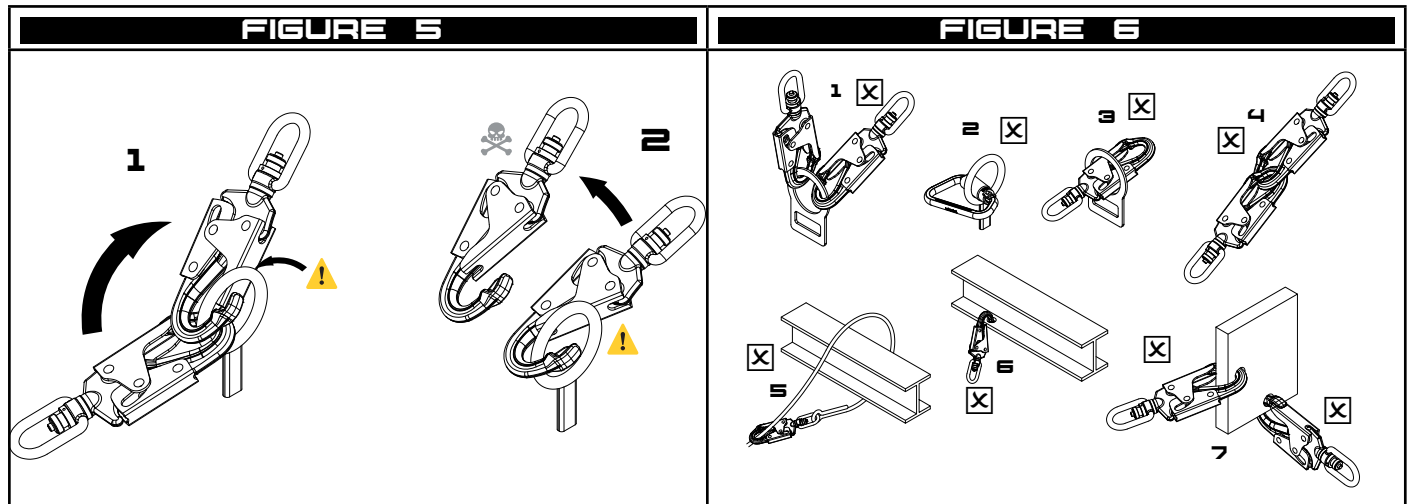
Only make compatible connections. Always ensure connectors close and lock correctly before use. Below and Figure 5 are examples of unsuitable connections;

- 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 6. 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.**



## 5 Use

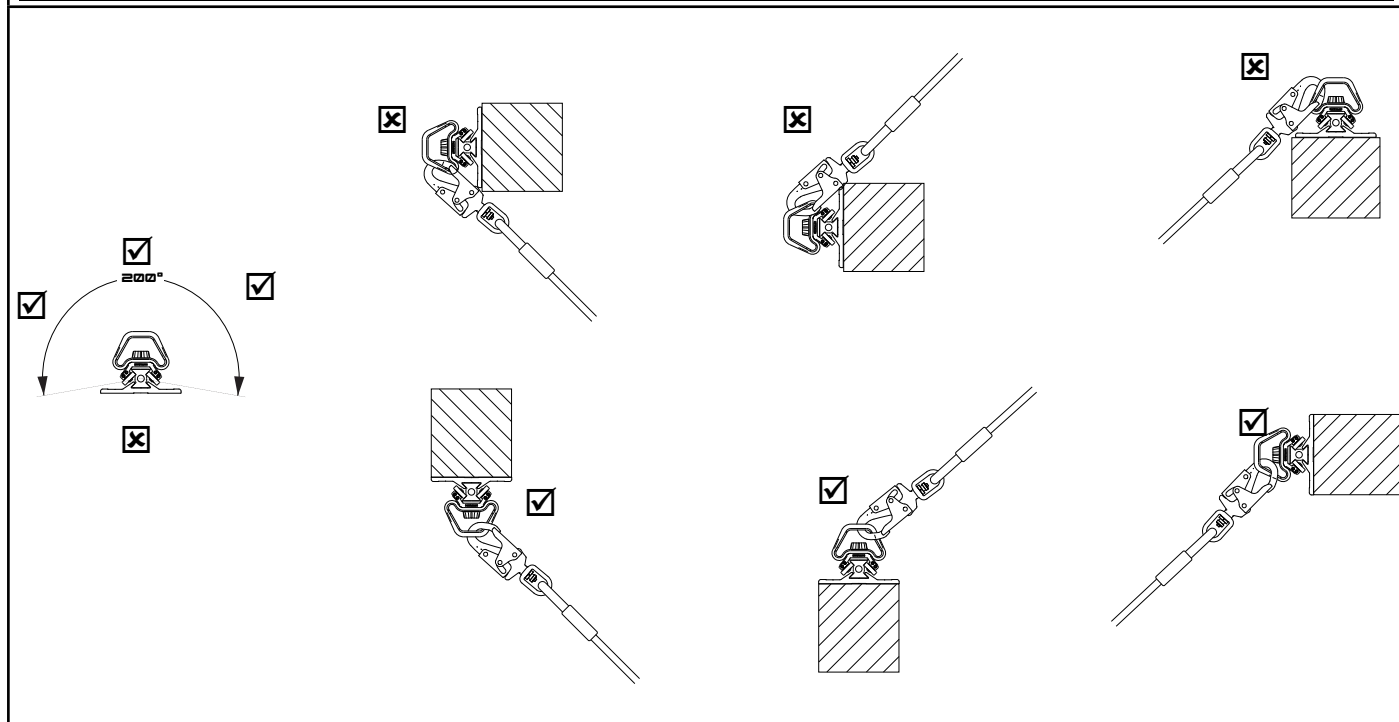
### 5.1 Planning

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.

### 5.2 Working Range

The X-Rail Rigid Anchor Line should be used in a 200° arc around the attachment point of the shuttle along the length of the rail. Operating outside this range may cause connecting devices to interfere with intermediate or end bracket fixings or result in the gate of the connector being loaded.

**FIGURE 7**



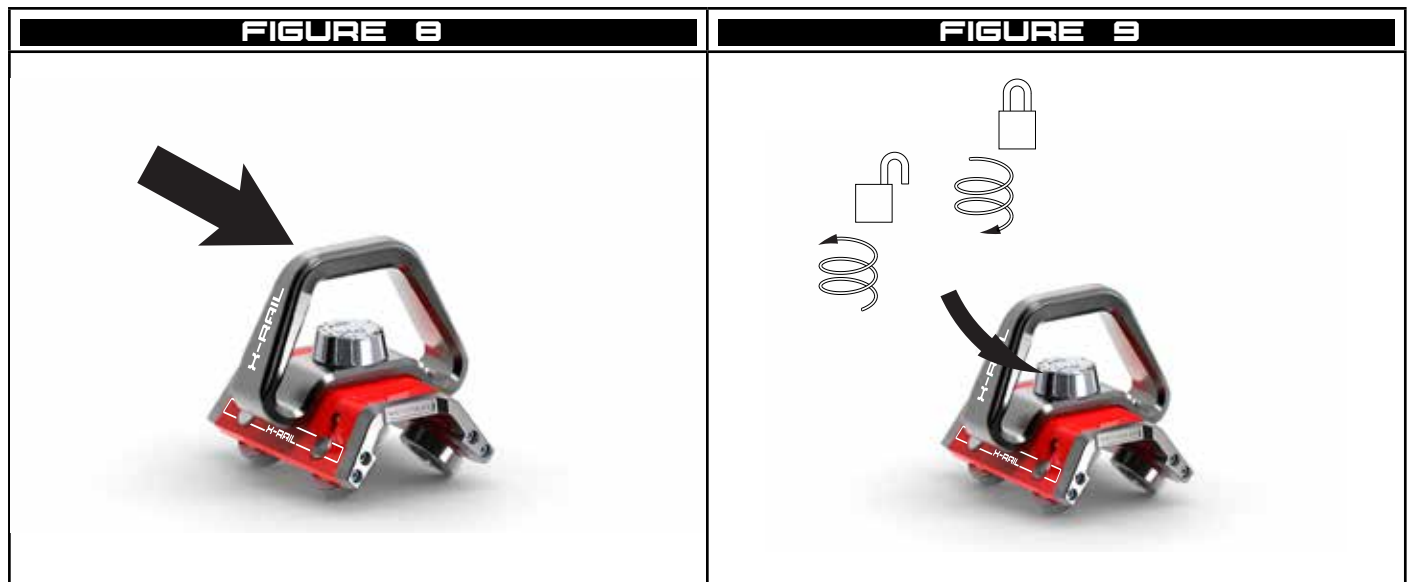
**⚠ During use always allow for the required fall clearance, swing fall and hazards present in the work place.**






### 5.3 Connection to the X-Rail Shuttle

The X-Rail has one attachment for connecting the users system to the shuttle, see Figure 8. Connection shall be made with an auto-locking compatible connector.

### 5.4 Shuttle Lock

To lock the position of the shuttle along the rail for work positioning or abseil purposes turn the locking bolt clockwise till the shuttle locks on the rail. To release the shuttle turn the locking bolt counter clockwise till the shuttle is free to move.



-  ***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 X-Rail Shuttle or Rigid Anchor Line.***
-  ***Use of incompatible connectors may lead to forced roll out and unintentional disconnection.***
-  ***Always consult the connecting system manufacturer's instruction to ensure it is suitable for use with this equipment.***
-  ***Only ever operate this equipment within the allowable operation range specified in this instruction, see Figure 7.***

## 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 X-Rail 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 X-Rail 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 X-Rail Rigid Anchor Line may be cleaned by the end user periodically to increase service life. After cleaning, the product shall undergo the pre-use inspection.

Rails and System - Clean rail, joiners, brackets fixing and fasteners 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 X-Rail Rigid Anchor Line shall be inspected before and after each use by the user.

### 7.2 Competent Person

A competent person shall inspect the product at least every 12 months.

### 7.3 Procedure

7.3.1 Rail - inspect the rail for deformation, damage, dents or debris that may affect the strength of the rail or impede the Shuttle.

7.3.2 Joiners, System stop - inspect all fasteners are present and tight. Inspect the aluminium for chips, cracks, discolouration, damage to the protective coating, bending or warping.

7.3.3 Corners and Jogs - inspect for deformation, damage, dents or debris that may affect the strength of the rail or impede the Shuttle. Inspect all the fasteners are present and tight.

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

7.3.5 Shuttle - inspect the housing is free of cracks, damage or deformation. Inspect the attachment point is free of cracks, damage or deformation. Ensure all screws are present and not loose. Inspect all the wheels contact the rail and the shuttle moves smoothly over the rail. Inspect the markings are present and legible.









7.3.6 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.

7.3.7 Label - inspect the system label is present and legible as per Figure 10.



INSPECTION RECORD			
Product Code		Date of Manufacture	
Serial or Batch No.		Date of Install	
Inspector		Date of Inspection	
PROCEDURE	INSPECTION	USER	COMPETENT PERSON
<b>7.3.1</b>	Rail - inspect the rail for deformation, damage, dents or debris that may affect the strength of the rail or impede the Shuttle.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		
<b>7.3.2</b>	Joiners, System stop - inspect all fasteners are present and tight. Inspect the aluminium for chips, cracks, discolouration, damage to the protective coating, bending or warping.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		
<b>7.3.3</b>	Corners and Jogs - inspect for deformation, damage, dents or debris that may affect the strength of the rail or impede the Shuttle. Inspect all the fasteners are present and tight.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		
<b>7.3.4</b>	Fixings - inspect all fixings are present and tight. Inspect Fixings are free of damage, debris, cracks, and corrosion.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		
<b>7.3.5</b>	Shuttle - inspect the housing is free of cracks, damage or deformation. Inspect the attachment point is free of cracks, damage or deformation. Ensure all screws are present and not loose. Inspect all the wheels contact the rail and the shuttle moves smoothly over the rail. Inspect the markings are present and legible.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		
<b>7.3.6</b>	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.	<b>N/A</b>	<input type="checkbox"/>
	Comments:		
<b>7.3.7</b>	Label - inspect the system label is present and legible as per Figure 9.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		

**FIGURE 10**

<b>X-RAIL HORIZONTAL RIGID ANCHOR LINE</b>				
<b>NUMBER OF USERS</b>	<input type="checkbox"/> 1x 	<input type="checkbox"/> 2x 	<input type="checkbox"/> 3x  <input type="checkbox"/> 4x 	
<b>SYSTEM USE</b>	<input type="checkbox"/> Fall Arrest		<input type="checkbox"/> Abseil	
<b>INSTALLED DATE</b>	__/__/____ (DD/MM/YYYY)		<b>INSTALLED BY</b>	
<b>STANDARDS</b>	EN795:2012/D CEN/TS 16415:2013 AS/NZS 1891.2:2009		 	
				
 <b>SafetyLink®</b> <i>Innovative Fall Protection</i>	<b>ONLY EVER CONNECT 1 USER TO EACH SHUTTLE</b>			
	<b>INSPECTION RECORD</b>			
	<b>1</b>	__/__/____ (DD/MM/YYYY)	<b>6</b>	__/__/____ (DD/MM/YYYY)
	<b>2</b>	__/__/____ (DD/MM/YYYY)	<b>7</b>	__/__/____ (DD/MM/YYYY)
	<b>3</b>	__/__/____ (DD/MM/YYYY)	<b>8</b>	__/__/____ (DD/MM/YYYY)
<b>4</b>	__/__/____ (DD/MM/YYYY)	<b>9</b>	__/__/____ (DD/MM/YYYY)	
<b>5</b>	__/__/____ (DD/MM/YYYY)	<b>10</b>	__/__/____ (DD/MM/YYYY)	
<p align="center">             SafetyLink Pty Ltd   ABN 83 081 777 371              Phone: 1300 789 545 or +61 2 4964 1068              info@safetylink.com   www.safetylink.com           </p>				

**SYSTEM LABEL - XRAIL-TR-WARN**

# 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 supplied 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.**



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