

BeamLink

Structural Beam Attachment

Installation and Use

FIGURE 1



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 BeamLink is a structural beam attachment for connecting fall protection anchors to flanged beams. The BeamLink is suitable for installation of single point anchors, Frogline and X-Rail systems. The BeamLink is suitable for use with both fall arrest and abseil systems.

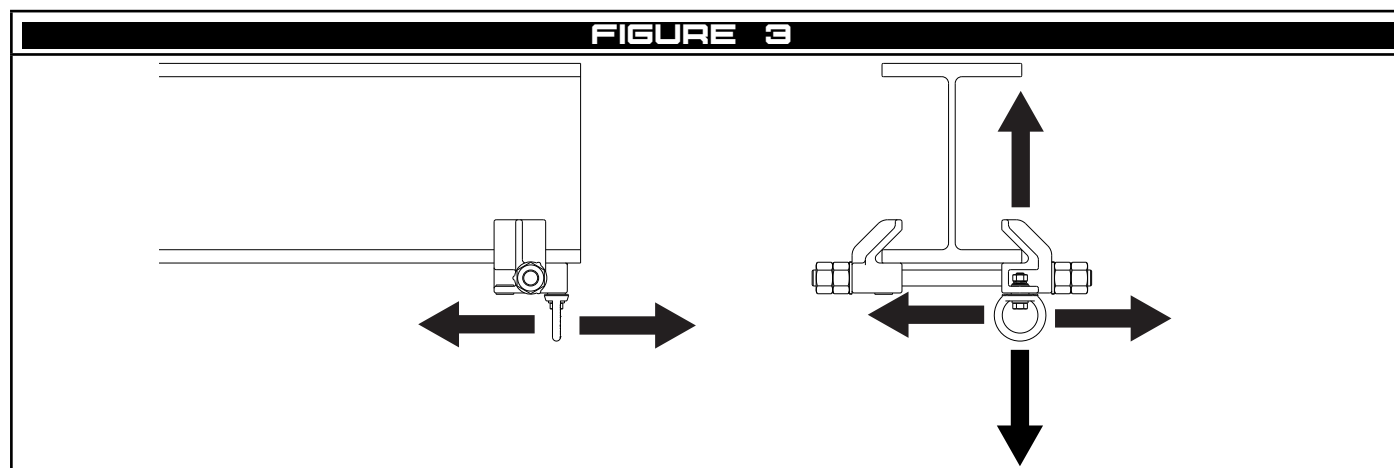
2.2 Standard

When fitted with eyehook in Figure 2, the product is compliant with the corresponding standard.

FIGURE 2		
PRODUCT CODE	STANDARD	RATING
EYEHOOK M16_ANZ1+BEAM_FIXINGS	AS/NZS 5532:2013	15kN
EYEHOOK M16_ANZ2+BEAM_FIXINGS	AS/NZS 5532:2013	21kN
EYEHOOK M16_ANSI+BEAM_FIXINGS	ANSI Z359.18:2017	22.2kN (5000lbs)
EYEHOOK M16_EN+BEAM_FIXINGS	EN795 Type A:2012	12kN

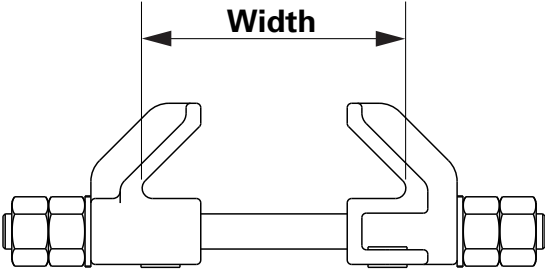
2.3 Rating

The BeamLink is rated to 22.2kN in all directions around the structure as shown in Figure 3.



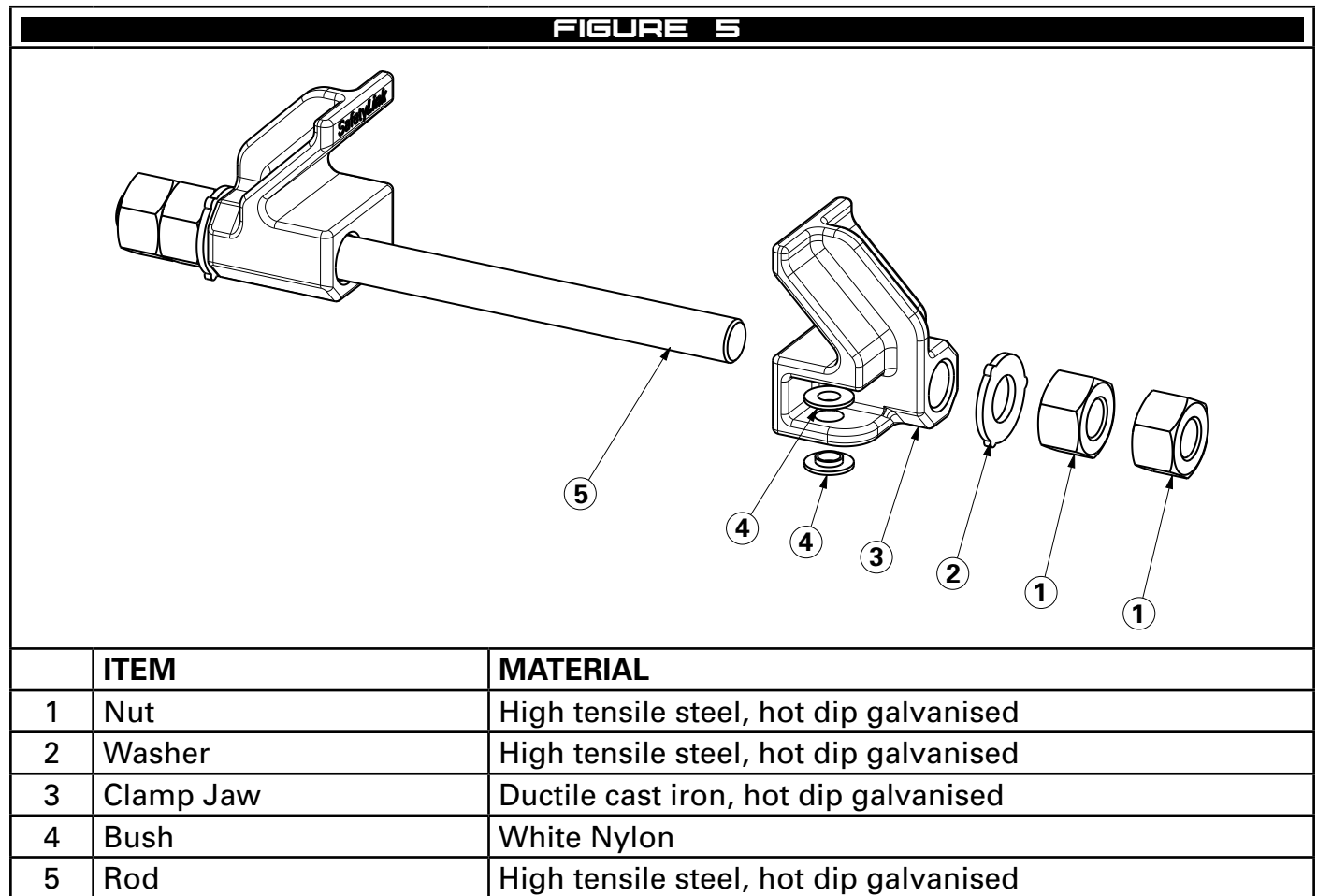
2.4 Sizes

Figure 4 shows the maximum beam widths each product can be installed on.

FIGURE 4			
			
PRODUCT CODE	MAX BEAM WIDTH (mm)	MIN BEAM WIDTH (mm)	MASS (kg)
BEAMLINK001.160	160	80	5.74
BEAMLINK001.210	210	80	5.88
BEAMLINK001.285	285	80	6.12
BEAMLINK001.385	385	80	6.42

2.5 Material

Figure 5 show the component materials the BeamLink is made of.

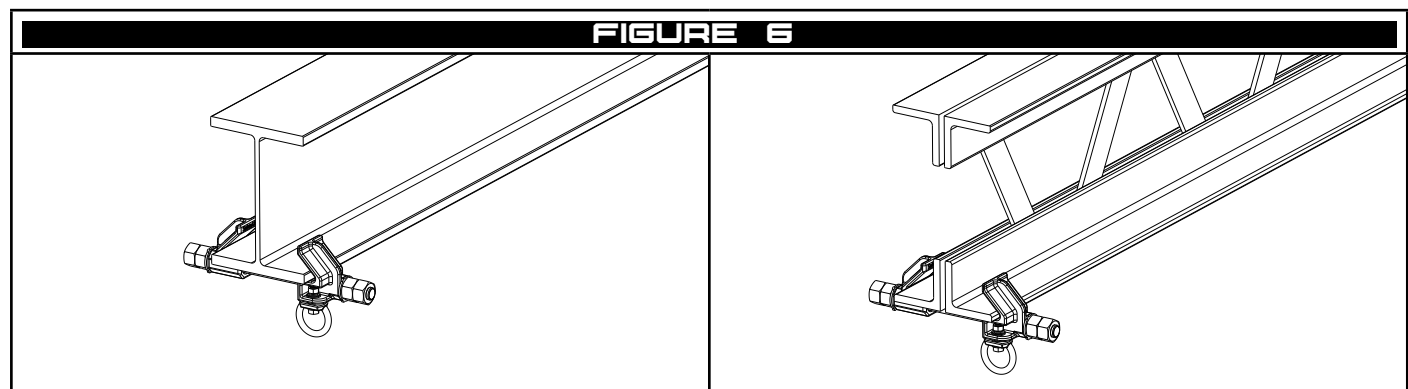


3 Installation

3.1 Structure

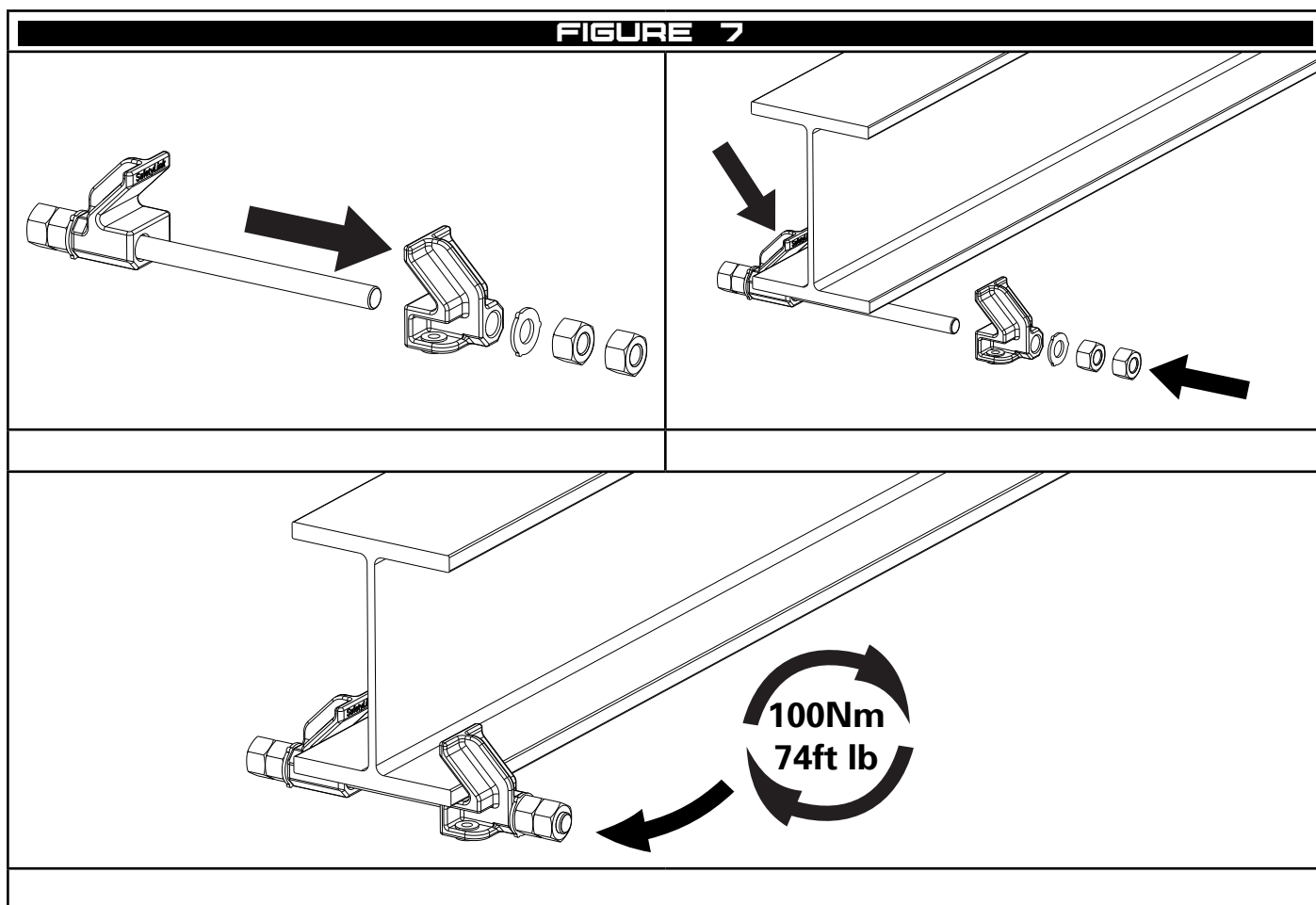
The structure to which the BeamLink is attached shall be capable of sustaining the rated load of the anchor system attached to the BeamLink. Consult an engineer if there is as any doubt a structure can take the required load.

The BeamLink is suitable for install on flanged beams like universal beams and columns and fabricated sections as shown in Figure 6.



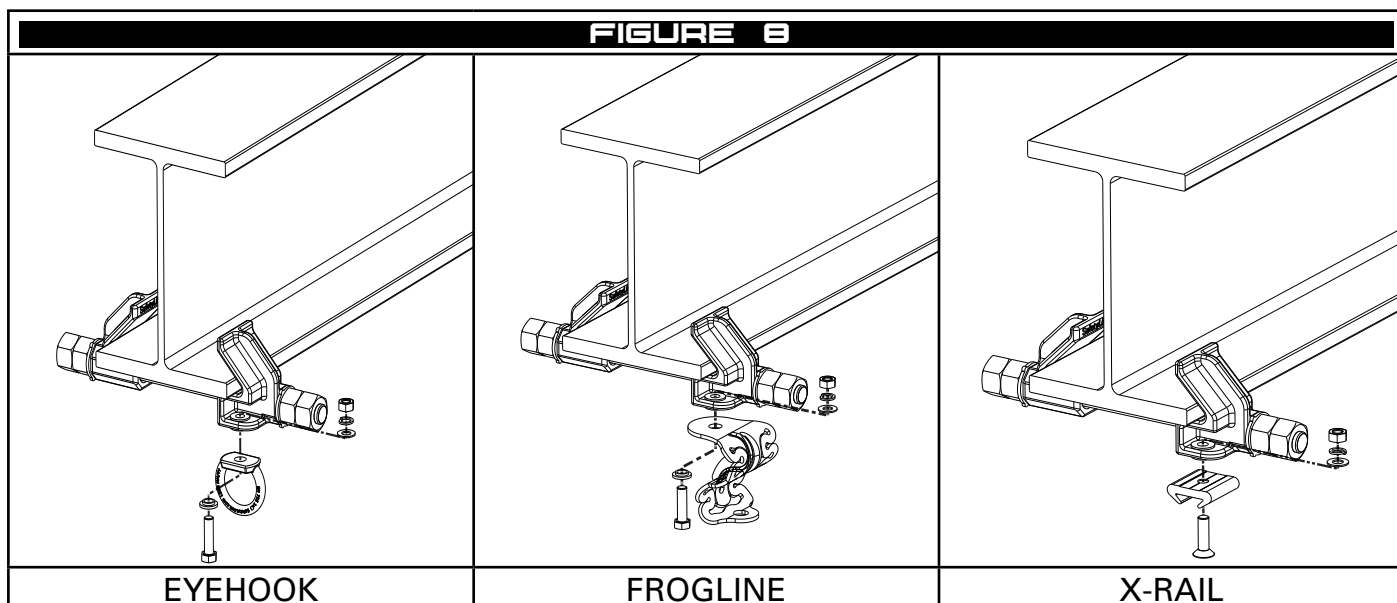
3.2 Connection to Structure

- 1 Remove the nuts, washer and jaw from one side of the BeamLink.
- 2 Hook the remaining jaw on the structure and reinstall the removed jaw, washer and nuts.
- 3 Tighten the assembly to 100Nm. Nut size 36mm (M24)



3.3 Connection to the BeamLink

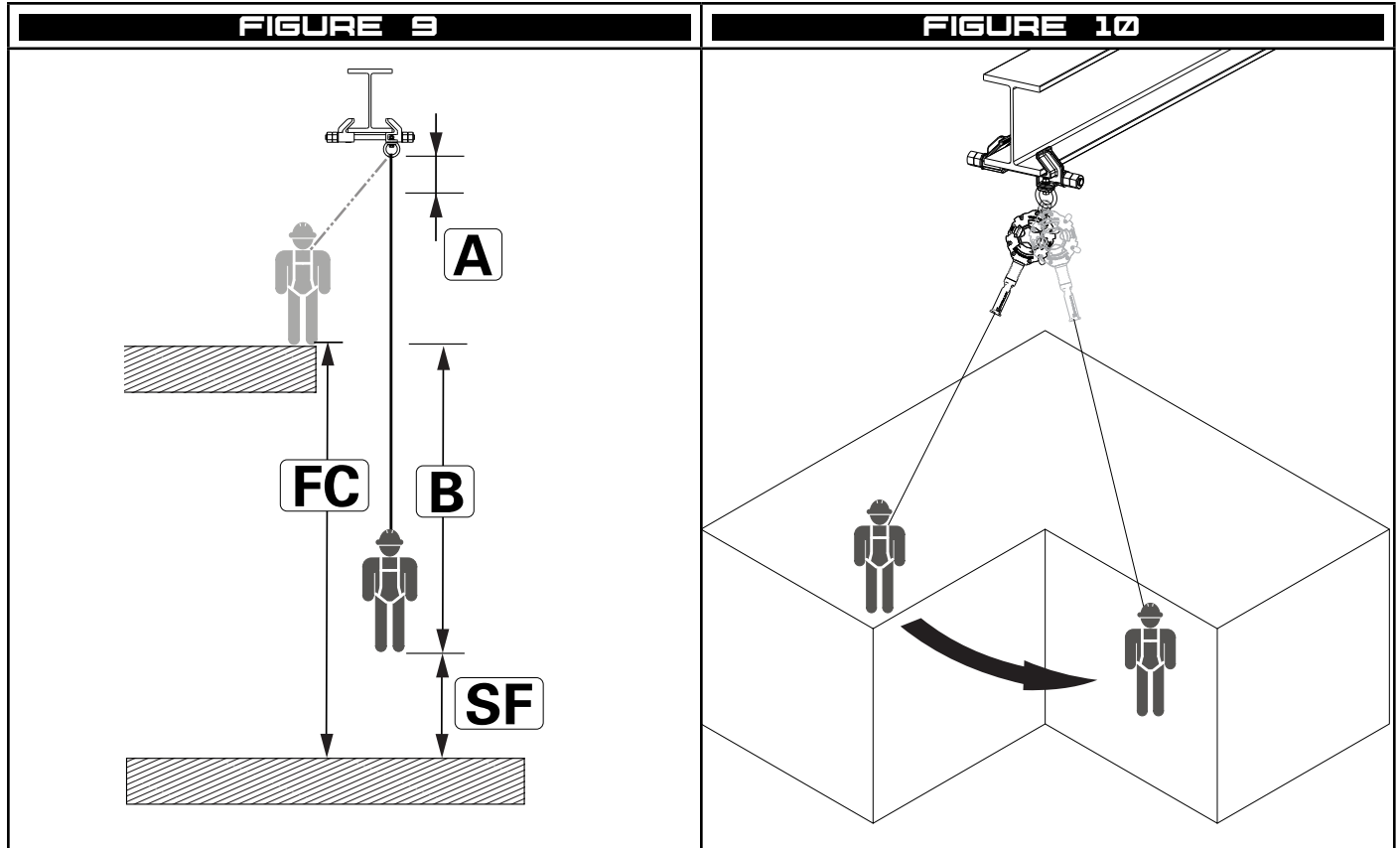
All connections made to the BeamLink shall be made M12 or 1/2" fasteners. Fixing shall be stainless steel grade 316 or 304 or hot dip galvanised or zinc plated steel grades 8.8 or 8. Fixing shall be installed with spring washers, locknuts or thread lock adhesive to prevent loosening. Each BeamLink is supplied with nylon bushes to prevent bi-metallic corrosion between products.



4 Limitations of Use

4.1 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 9 provides guidance on how to calculate fall clearance. In Figure 9, (A) represents the deflection Anchor, (B) represents free fall, energy absorber deployment as well as the estimated D-ring slide 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 $A+B + SF$.



4.2 Swing Fall

Working off centre of an anchor point may cause a swing fall. See Figure 10. 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.

4.3 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.

4.4 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.

4.5 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.

5 Connections

5.1 Making Connection

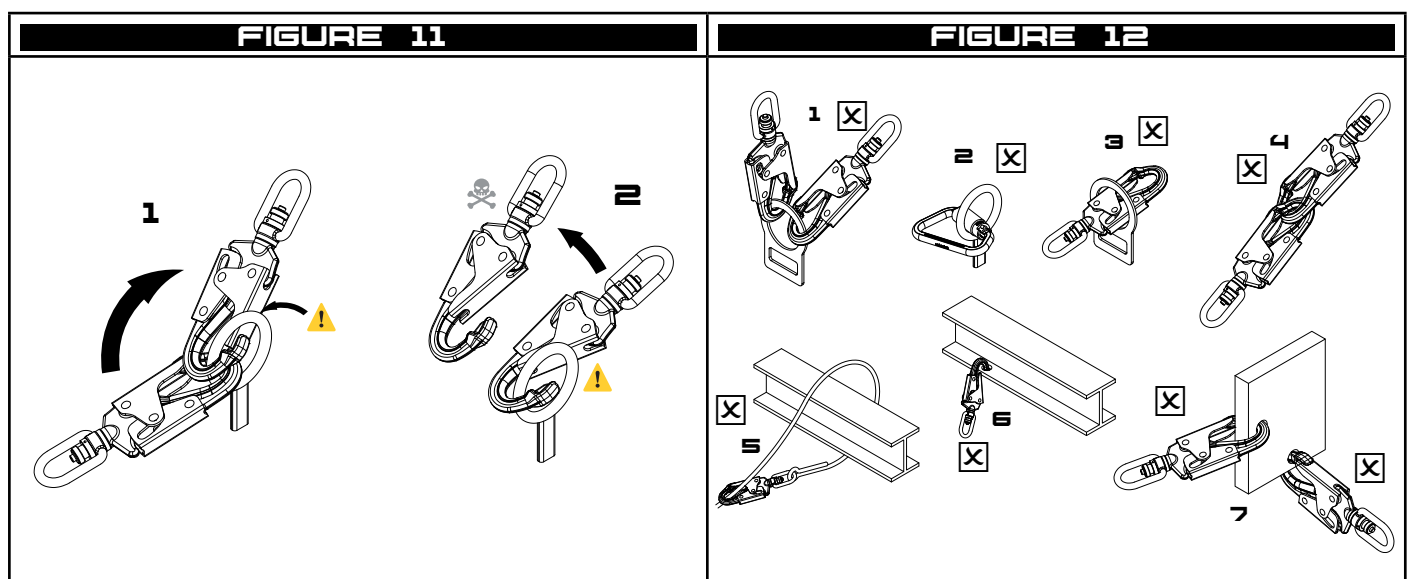
Only make compatible connections. Always ensure connectors close and lock correctly before use. Below and Figure 12 are examples of unsuitable connections;

- 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.

5.2 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 11. 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.



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 BeamLink Single Point Anchor 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 BeamLink may be cleaned by the end user periodically to increase service life. After cleaning, the product shall undergo the pre-use inspection. 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.

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

7 Inspection

7.1 Before and After Use

The BeamLink 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 Jaws - inspect for damage, deformation, corrosion or signs of over loading.

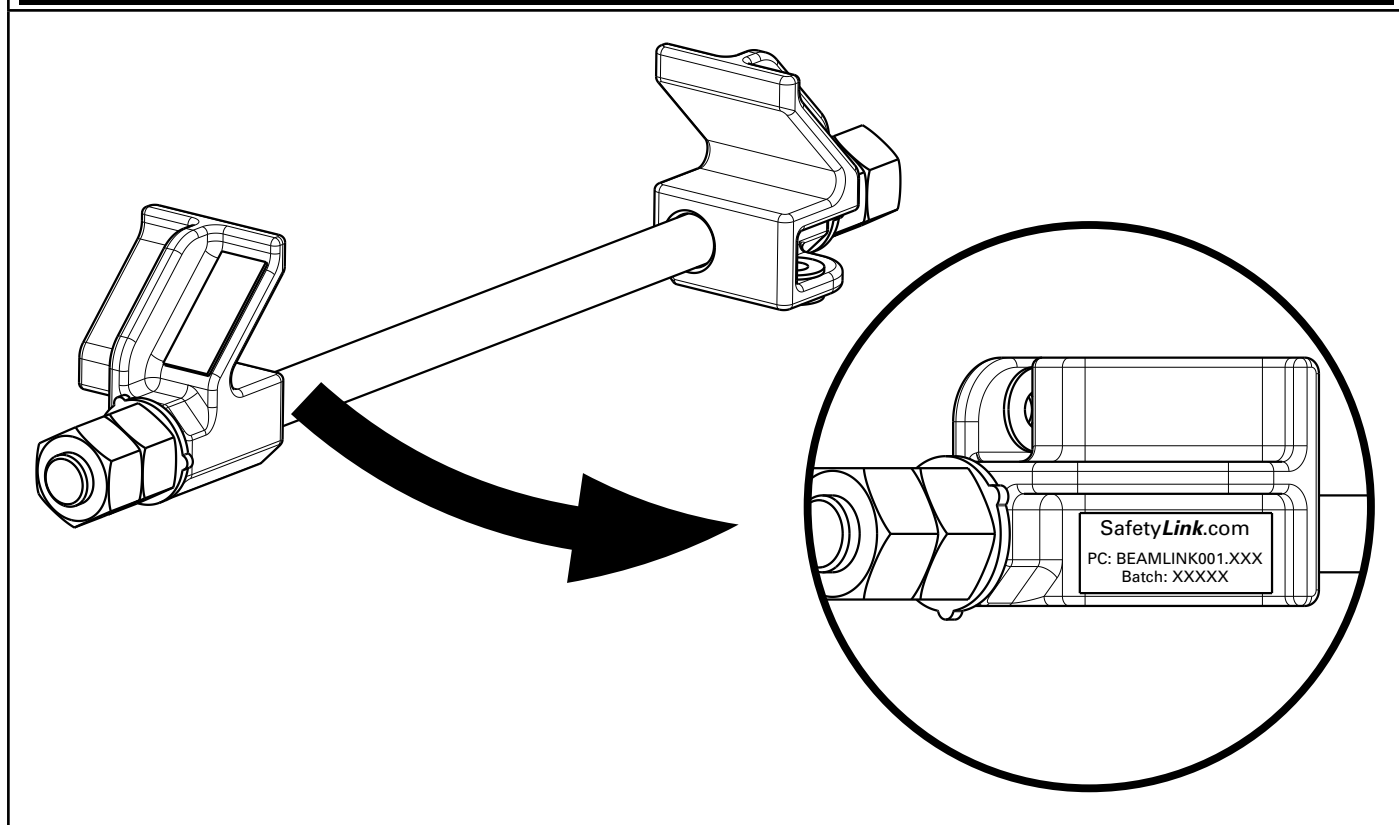
7.3.2 Rod - inspect for damage, deformation, corrosion or signs of over loading. Inspect for warping or bending of the rod.

7.3.3 Fasteners - inspect for damage, deformation and corrosion. Inspect the installation torque.

7.3.4 Markings - inspect all markings are present and legible. Figure 13.

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	Jaws - inspect for damage, deformation, corrosion or signs of over loading.	☐	☐
	Comments:		
7.3.2	Rod - inspect for damage, deformation, corrosion or signs of over loading. Inspect for warping or bending of the rod.	☐	☐
	Comments:		
7.3.3	Fasteners - inspect for damage, deformation and corrosion. Inspect the installation torque.	☐	☐
	Comments:		
7.3.4	Markings - inspect all markings are present and legible. Figure 11.	☐	☐
	Comments:		

FIGURE 13



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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