

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 anchors in this manual are single point anchors suitable for installation in concrete or a steel structure.







2.2 Standard

These anchors are compliant with AS/NZS 5532:2013.

2.3 User Rating

The anchors are rated to 15kN and suitable for a single user. Some of these products are suitable for abseil and are noted below.

2.4 Materials

FIGURE 2	
	
EYEBOLT M16X26mm	EYEBOLT-STANDARD
	
EYEBOLT-ABSEIL	EYEHOOK M16
	
EYEHOOK M12	EYENUT M16



EYENUT M20



CONCL005



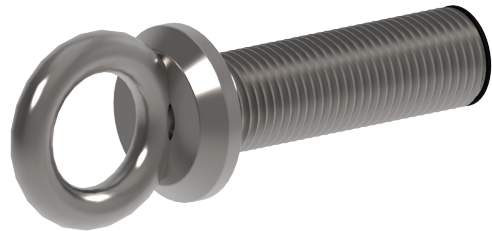
CONCL012



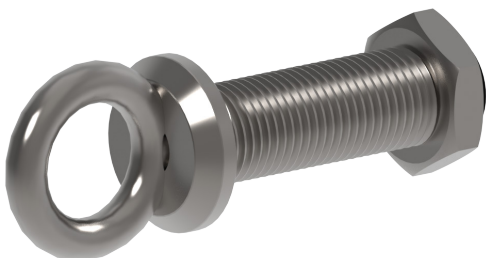
SPACE001



WINDW001



SWIVEL001



SWIVEL002

3 Installation

3.1 General

3.1.1 Structure

The structure shall be assessed to ensure it has suitable strength and is in acceptable condition to install these products.

3.1.2 Fixings

Fixings shall be stainless steel grade 316 or 304, fixings shall be installed with spring washers, lock nuts or thread lock adhesive to prevent loosening.

3.1.3 Torque

All fixing shall be torque tightened to the below specification.

FIGURE 3	
FASTENER SIZE	TORQUE (Nm)
M12	50
M16	60
M20	70
M25	70

3.2 EyeBolts

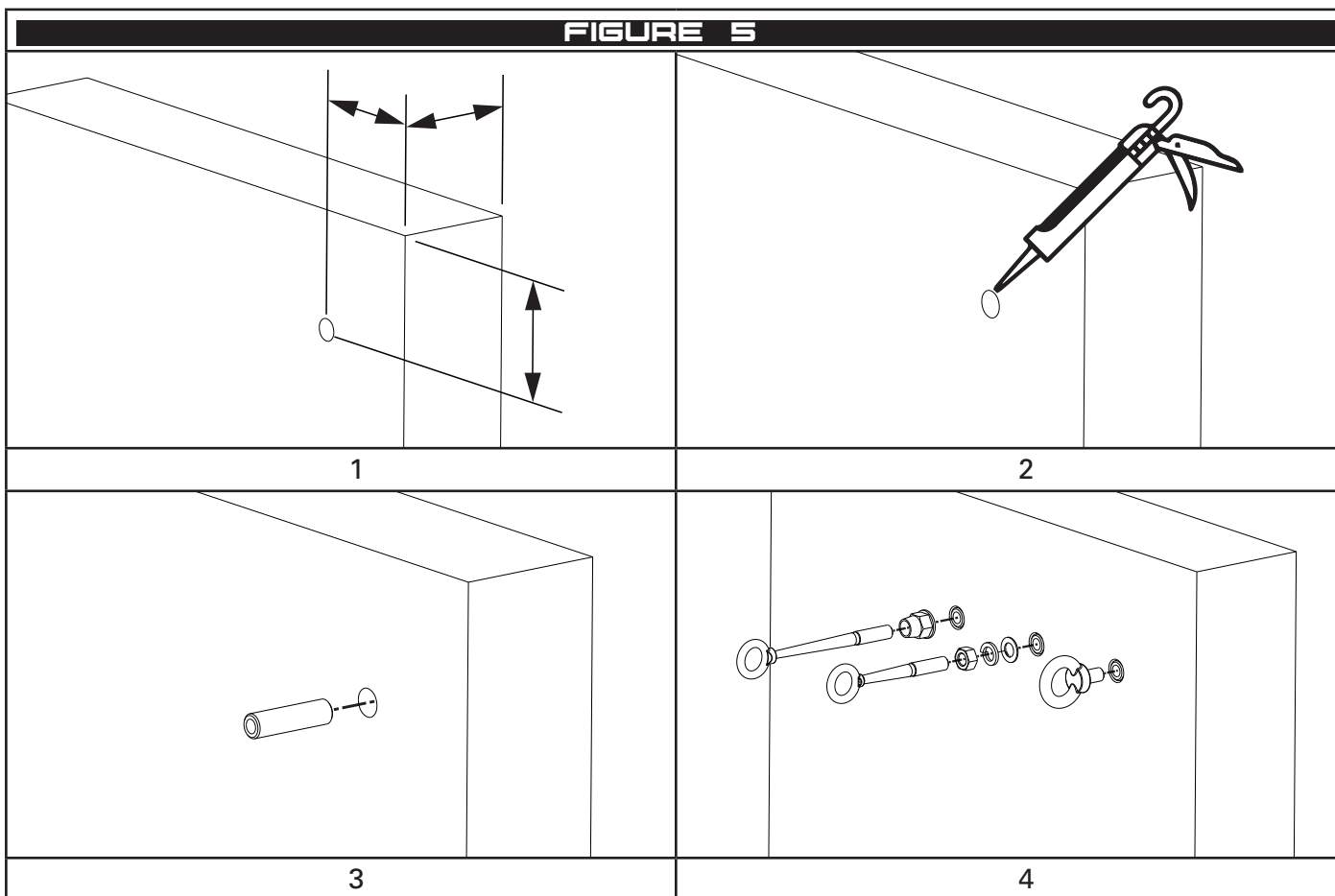
3.2.1 Concrete

- 1 Drill a hole as per the below table. The hole depth must be into structural concrete.
- 2 Clean the holes of dust and inject the chemical adhesive.
- 3 Install the insert to full depth. Wipe away any adhesive expelled from the hole. The top of the insert shall sit flush with the surface of the concrete.
- 4 Once the chemical has cured, install the anchor and tighten.

⚠ This method is suitable for CON.CHEM.FISV.300. Other adhesives or products may require different depths or edge distances. Consult the manufacturer's instructions for details.

⚠ The anchor thread shall be engaged at least 25mm on the insert.

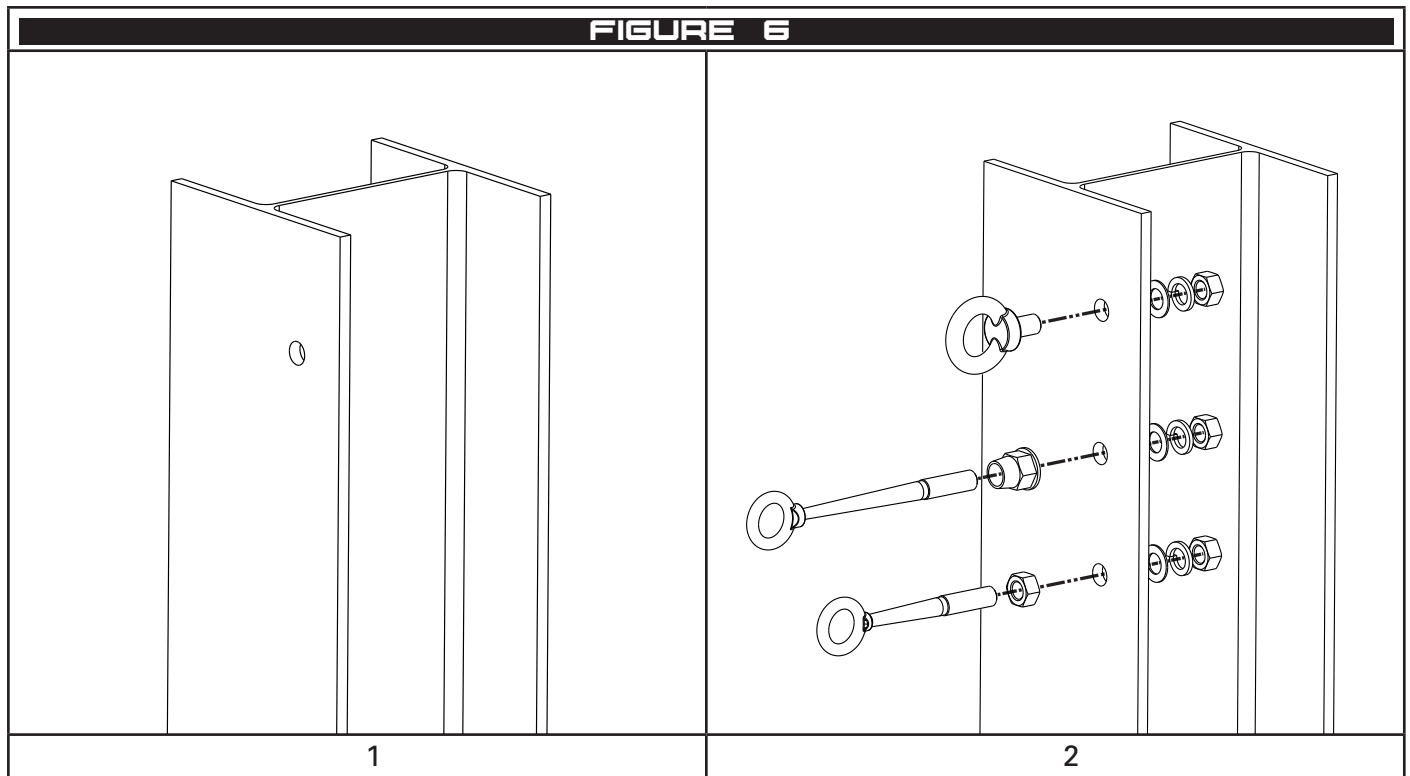
FIGURE 4				
			32MPa	
Product Code	Hole Diameter (mm)	Hole Depth (mm)	Edge Distance (mm)	Slab Thickness (mm)
EYEBOLT M16X26mm	28	90	150	150
EYEBOLT-STANDARD	28	90	150	150
EYEBOLT-ABSEIL	28	90	150	150



3.2.2 Steel

- 1 Drill an 18mm hole in the steel.
- 2 Install the anchor and tighten.

⚠ *Two threads shall extend passed the end of the nut.*



3.3 EyeHooks

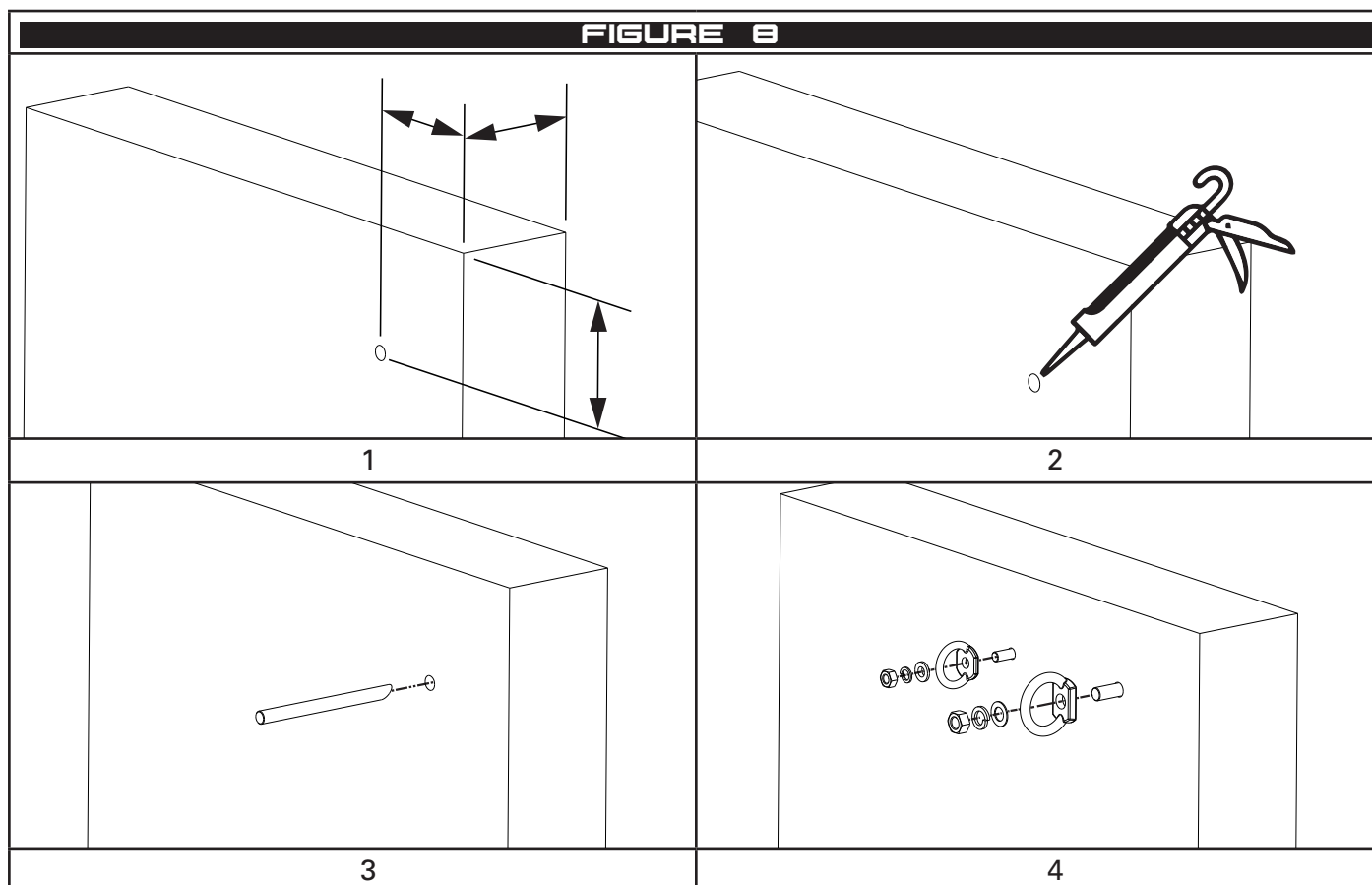
3.3.1 Concrete

- 1 Drill a hole as per the below table. The hole depth must be into structural concrete.
- 2 Clean the holes of dust and inject the chemical adhesive.
- 3 Install the stud to full depth. Wipe away any adhesive expelled from the hole. The top of the stud shall sit 35mm above the surface of the concrete.
- 4 Once the chemical has cured, install the anchor and tighten.

⚠ **Two threads shall extend passed the end of the nut.**

⚠ **This method is suitable for CON.CHEM.FISV.300. Other adhesives or products may require different depths or edge distances. Consult the manufacturer's instructions for details.**

FIGURE 7										
Product Code	Hole Diameter (mm)	Hole Depth (mm)	20MPa		25MPa		32MPa		40MPa	
			Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)
EYEHOOK M16	18	90	200	130	175	130	150	130	145	130
EYEHOOK M12	14	90	210	130	190	130	160	130	140	130
EYEHOOK M16	18	80	200	150	175	150	140	150	125	150
EYEHOOK M12	14	80	210	150	190	150	150	150	135	150

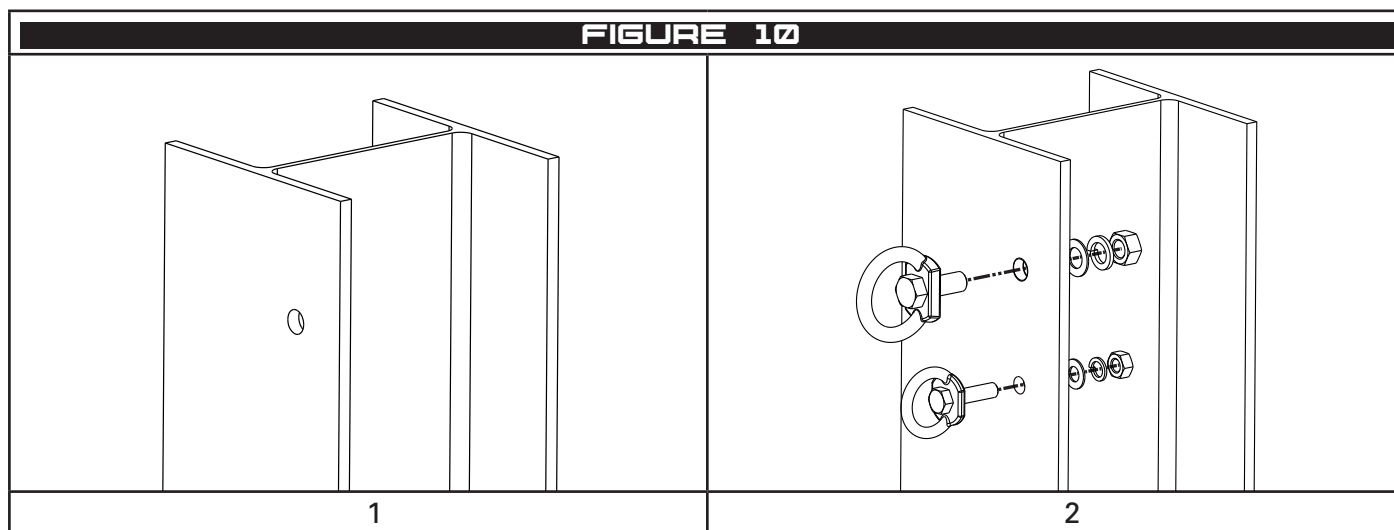


3.3.2 Steel

- 1 Drill a hole in the steel as per the below table.
- 2 Install the anchor and tighten as per Section 3.1.

⚠ Two threads shall extend passed the end of the nut.

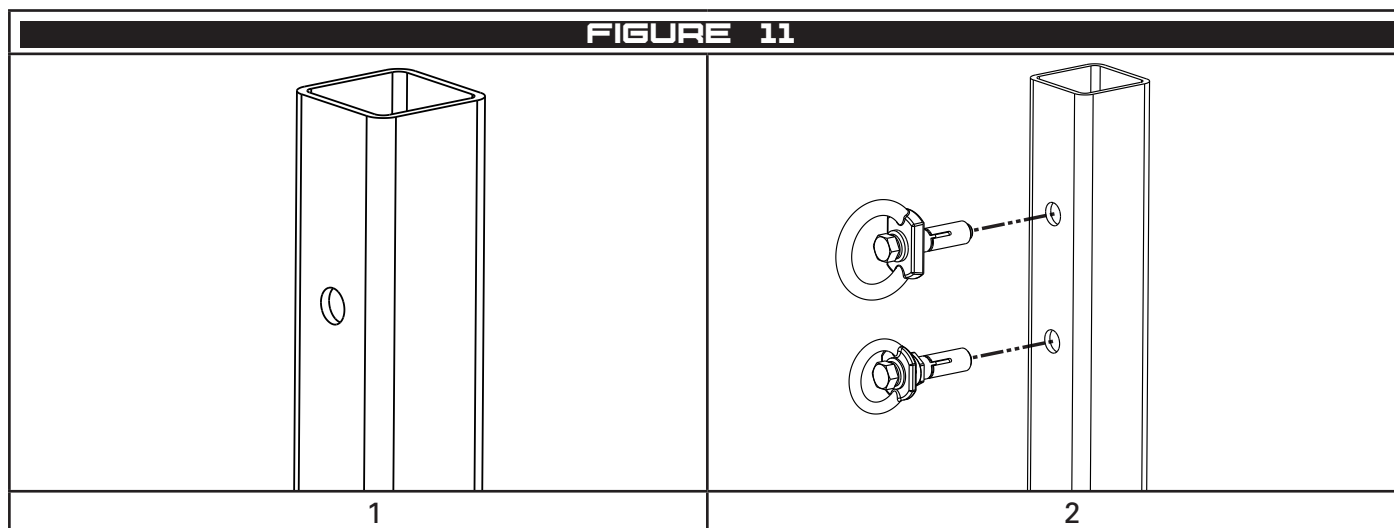
FIGURE 9			
Product Code	Hole Diameter (mm)	SteelLink Suitable For Use	SteelLink Hole Diameter (mm)
EYHOOK M16	18	STEELINK-M12.HEX.75.12.M16	18
EYHOOK M12	14	STEELINK-M12.HEX.75.15	18



3.3.3 SteelLink

⚠ Refer to the SteelLink Manual for additional information.

- 1 Drill an 18mm hole in the steel.
- 2 Install the anchor and tighten.



3.4 EyeNuts

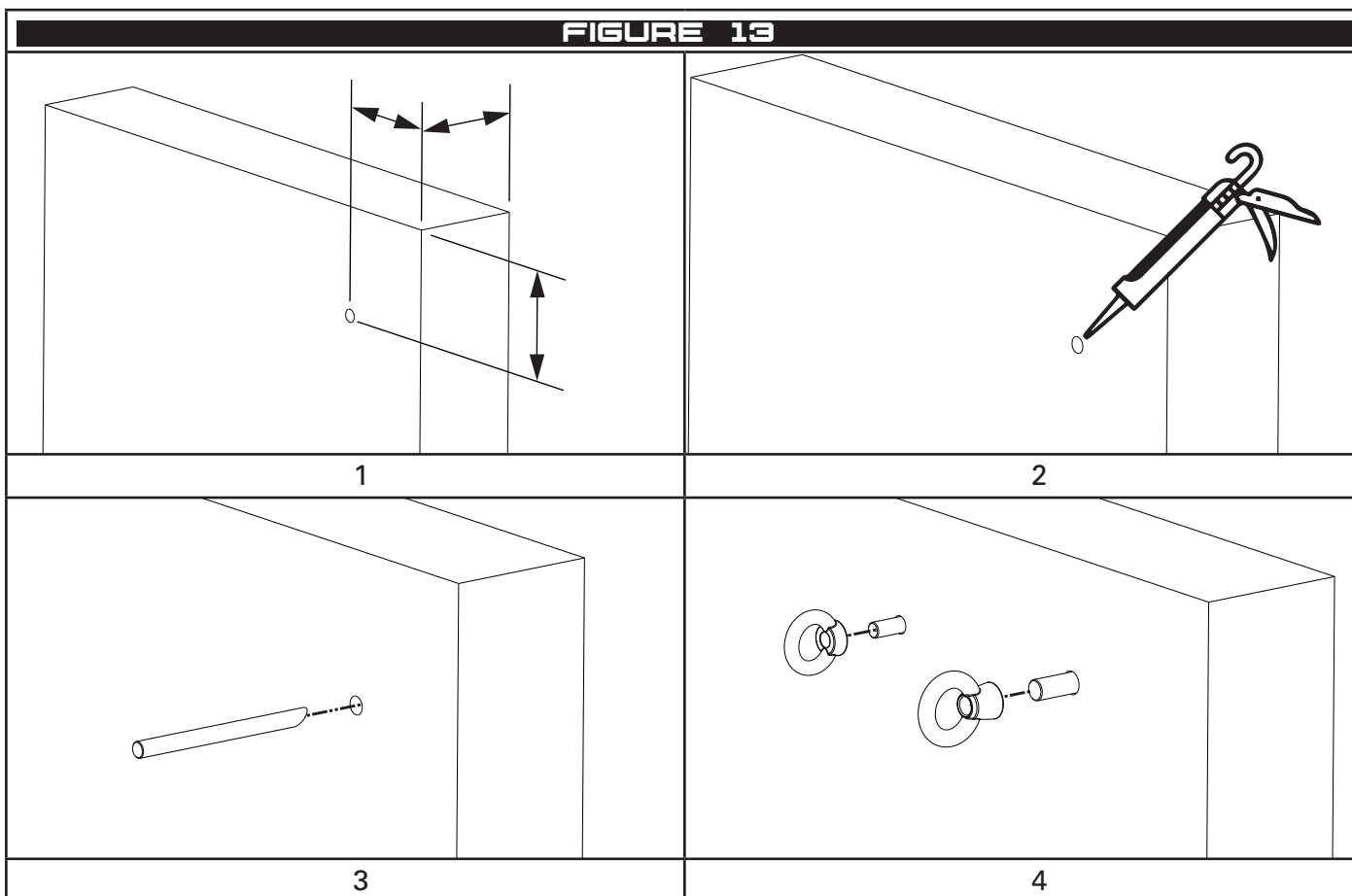
3.4.1 Concrete

- 1 Drill a hole as per the below table. The hole depth must be into structural concrete.
- 2 Clean the holes of dust and inject the chemical adhesive.
- 3 Install the stud to full depth. Wipe away any adhesive expelled from the hole. The top of the stud shall sit 20mm above the surface of the concrete.
- 4 Once the chemical has cured, install the anchor and tighten.

⚠ Two threads shall extend passed the end of the EyeNut.

⚠ This method is suitable for CON.CHEM.FISV.300. Other adhesives or products may require different depths or edge distances. Consult the manufacturer's instructions for details.

FIGURE 12										
Product Code	Hole Diameter (mm)	Hole Depth (mm)	20MPa		25MPa		32MPa		40MPa	
			Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)
EYENUT M16	18	90	200	150	175	150	150	150	145	150
EYENUT M20	24	90	170	150	150	150	135	150	125	150

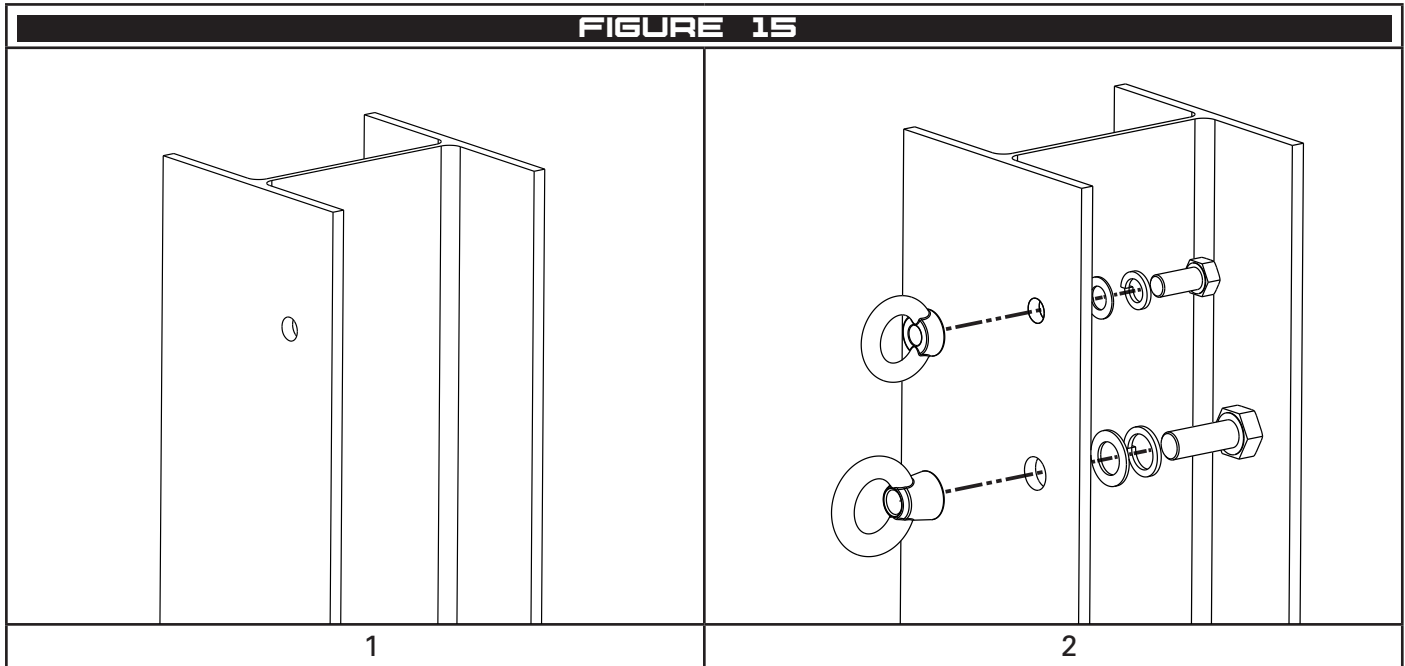


3.4.2 Steel

- 1 Drill a hole in the steel as per the below table.
- 2 Install the anchor and tighten as per Section 3.1.

⚠ Two threads shall extend passed the end of the Eyenut.

FIGURE 14	
Product Code	Hole Diameter (mm)
EYENUT M16	18
EYENUT M20	22



3.5 One-Piece

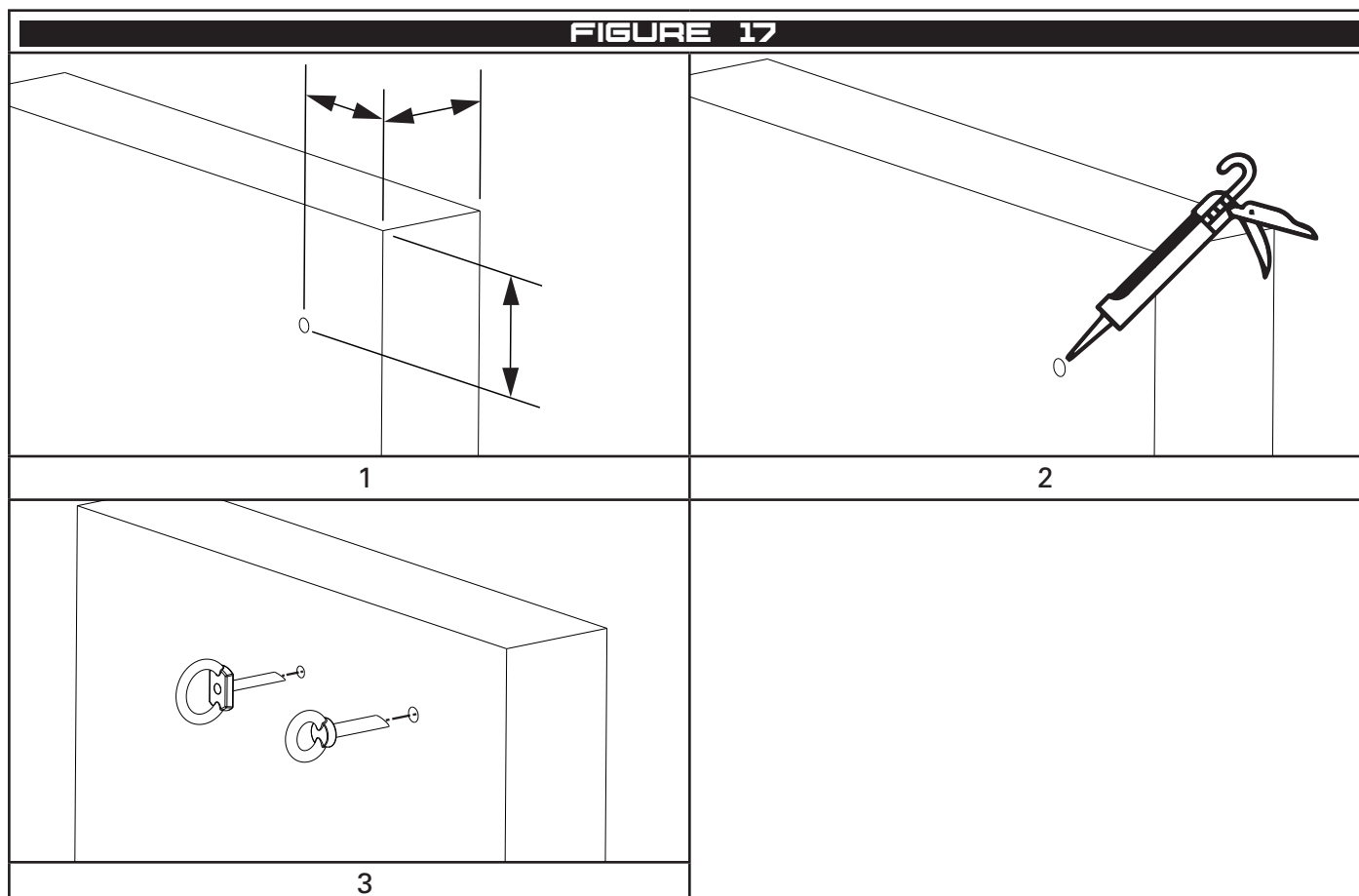
3.5.1 Concrete

- 1 Drill a hole as per the below table. The hole depth must be into structural concrete.
- 2 Clean the holes of dust and inject the chemical adhesive.
- 3 Install the anchor to full depth. Wipe away any adhesive expelled from the hole.

⚠ This product shall be installed flush on the concrete, there can be no topping compounds.

⚠ This method is suitable for CON.CHEM.FISV.300. Other adhesives or products may require different depths or edge distances. Consult the manufacturer's instructions for details.

FIGURE 16										
Product Code	Hole Diameter (mm)	Hole Depth (mm)	20MPa		25MPa		32MPa		40MPa	
			Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)	Edge Distance (mm)	Slab Thickness (mm)
CONCL005	18	90	200	130	175	130	150	130	145	130
CONCL012	14	90	210	130	190	130	160	130	140	130
CONCL005	18	90	200	150	175	150	140	150	125	150
CONCL012	14	90	210	150	190	150	150	150	135	150

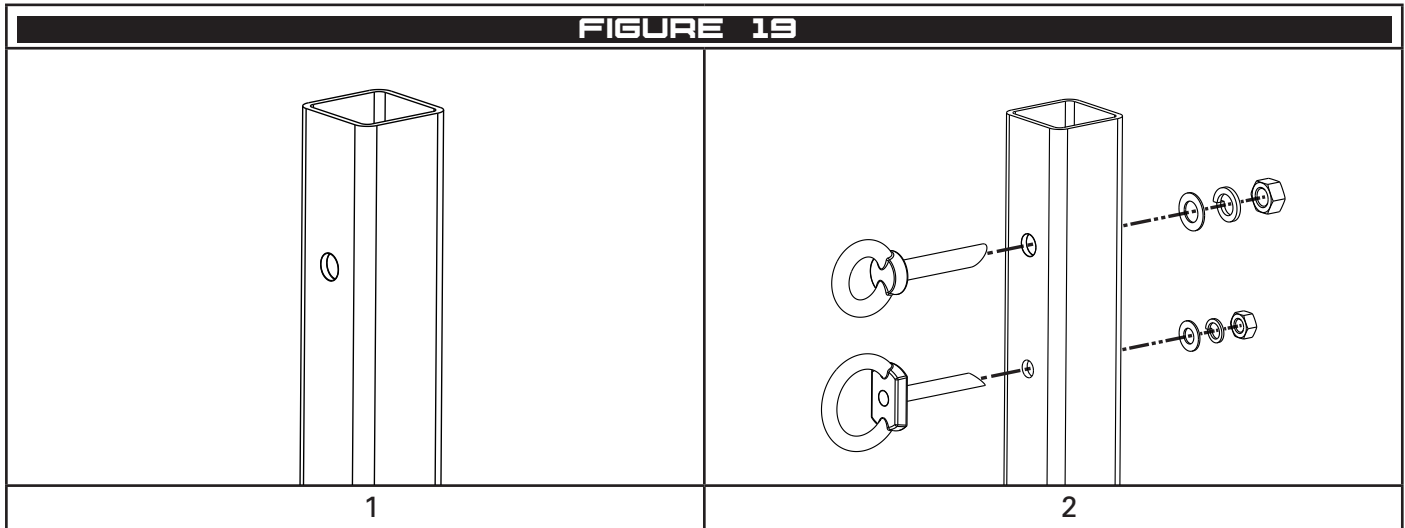


3.5.2 Steel

- 1 Drill a hole in the steel as per the below table.
- 2 Install the anchor and tighten as per Section 3.1.

⚠ Two threads shall extend passed the end of the nut.

FIGURE 18		
Product Code	Hole Diameter (mm)	Max thickness (mm)
CONCL005	18	50
CONCL012	14	50

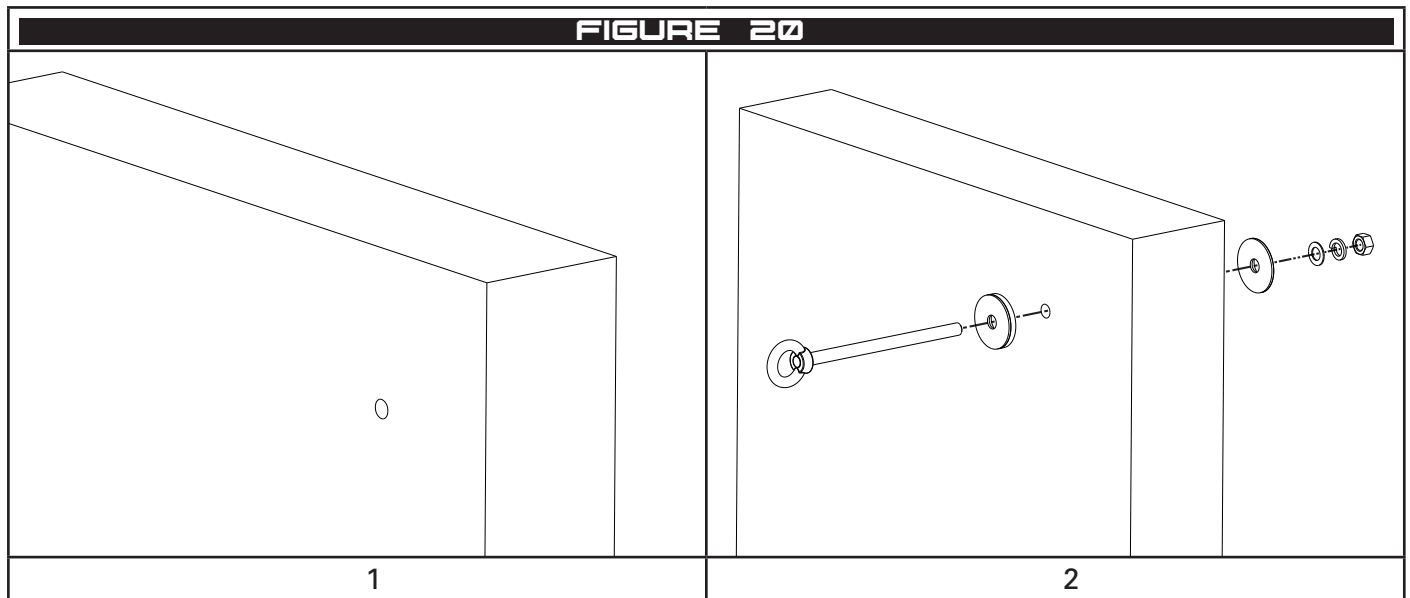


3.6 SpacerLink (Thru Bolt)

3.6.1 Concrete or Block work or steel

- 1 Drill an 18mm hole in the structure.
- 2 Install the anchor and tighten as per Section 3.1.

⚠ *Two threads shall extend passed the end of the nut.*



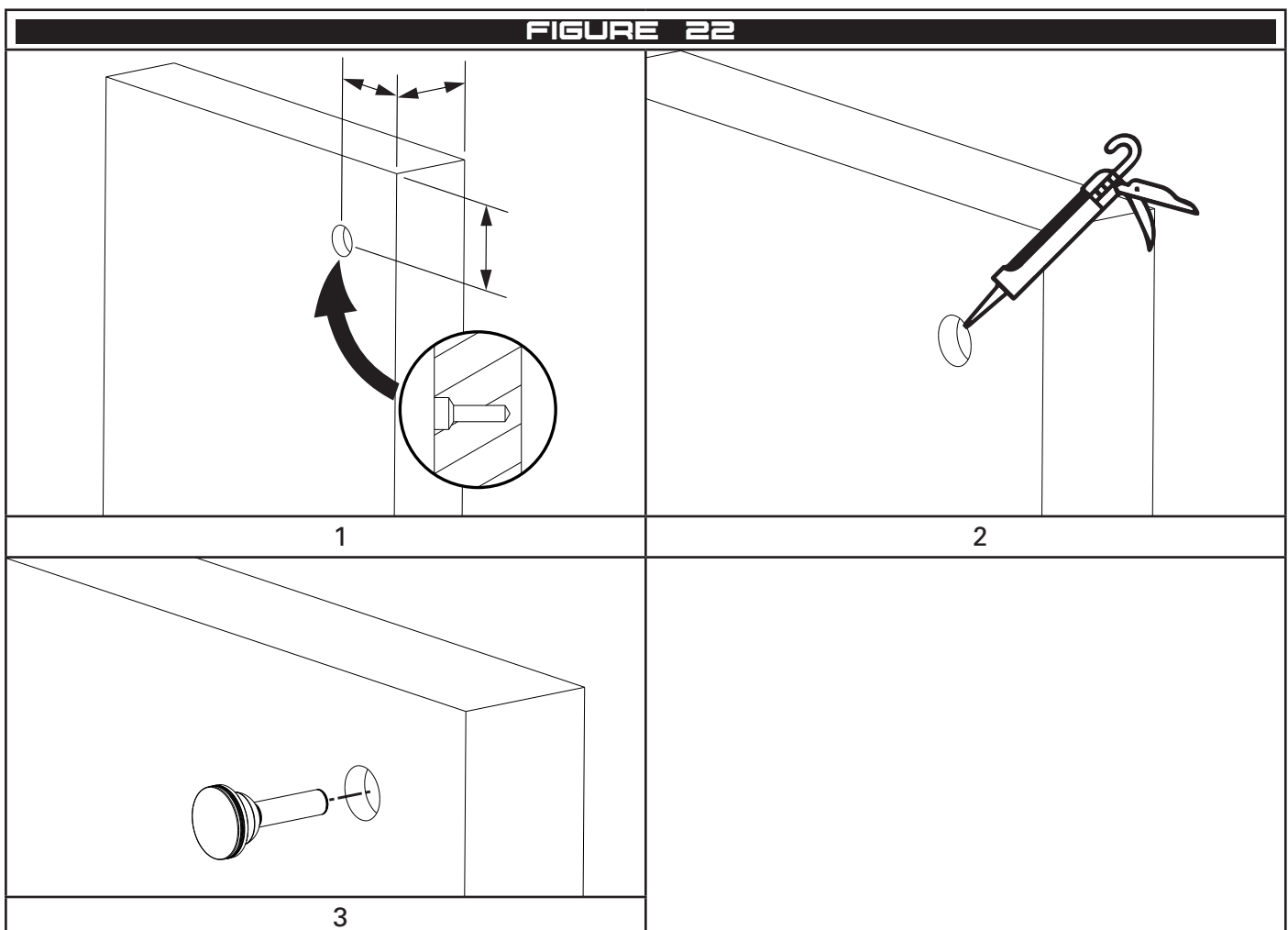
3.7 WindowLink

3.7.1 Concrete

- 1 Drill a hole $\varnothing 55\text{mm}$ hole to a depth of 25mm and a $\varnothing 28\text{mm}$ hole to a depth of 122mm. The hole depth must be into structural concrete.
- 2 Clean the holes of dust and inject the chemical adhesive.
- 3 Install the anchor to full depth. Wipe away any adhesive expelled from the hole. The collar of the anchor shall sit flush with the surface of the concrete.

⚠ This method is suitable for CON.CHEM.FISV.300. Other adhesives or products may require different depths or edge distances. Consult the manufacturer's instructions for details.

FIGURE 21		
	32MPa	
Product Code	Edge Distance (mm)	Slab Thickness (mm)
WINDW001	150	150



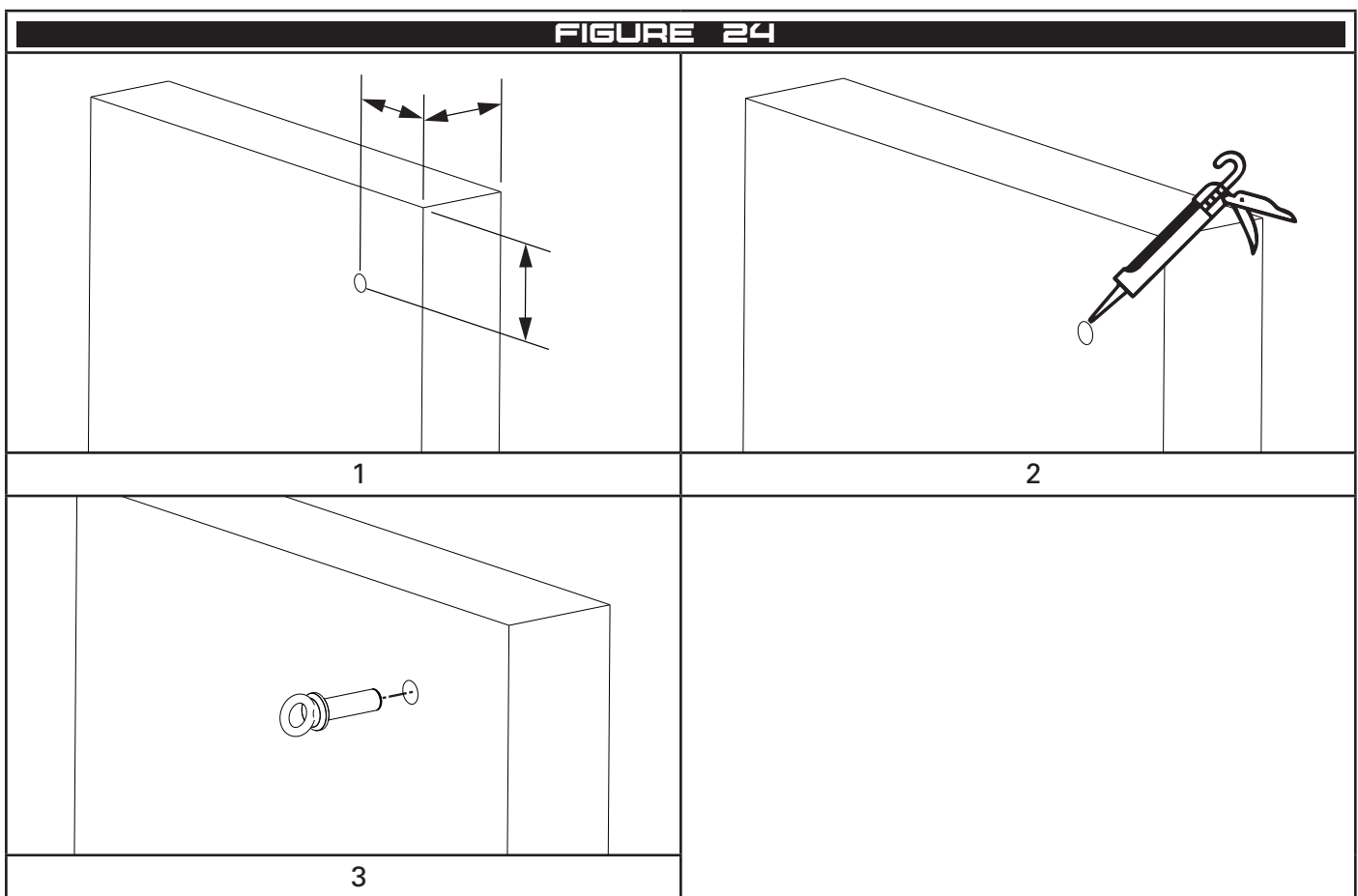
3.8 Swivelink

3.8.1 Concrete

- 1 Drill a hole $\varnothing 28\text{mm}$ to a depth of 122mm. The hole depth must be into structural concrete.
- 2 Clean the holes of dust and inject the chemical adhesive.
- 3 Install the anchor to full depth. Wipe away any adhesive expelled from the hole. The collar of the anchor shall sit flush with the surface of the concrete.

⚠ This method is suitable for CON.CHEM.FISV.300. Other adhesives or products may require different depths or edge distances. Consult the manufacturer's instructions for details.

FIGURE 23		
	32MPa	
Product Code	Edge Distance (mm)	Slab Thickness (mm)
SWIVEL001	150	150

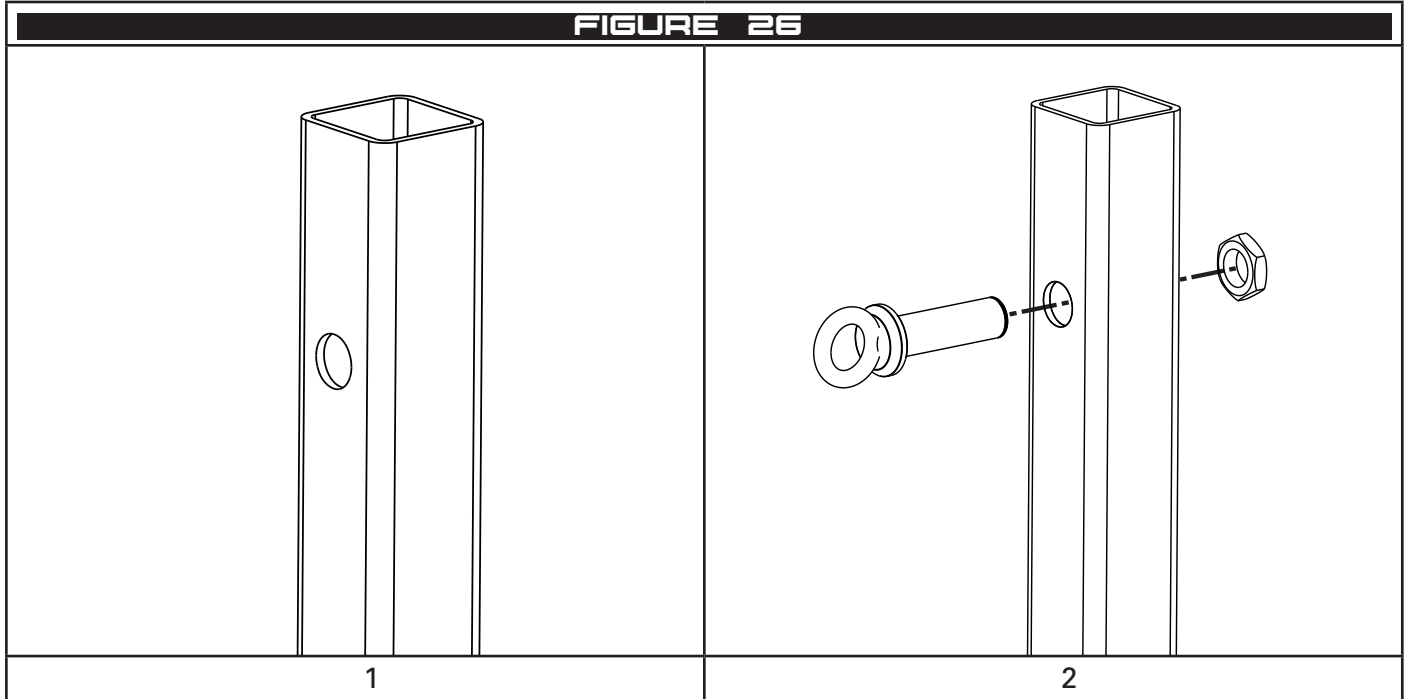


3.8.2 Steel

- 1 Drill a hole in the steel as per the below table.
- 2 Install the anchor and tighten as per Section 3.1.

⚠ *Two threads shall extend passed the end of the nut.*

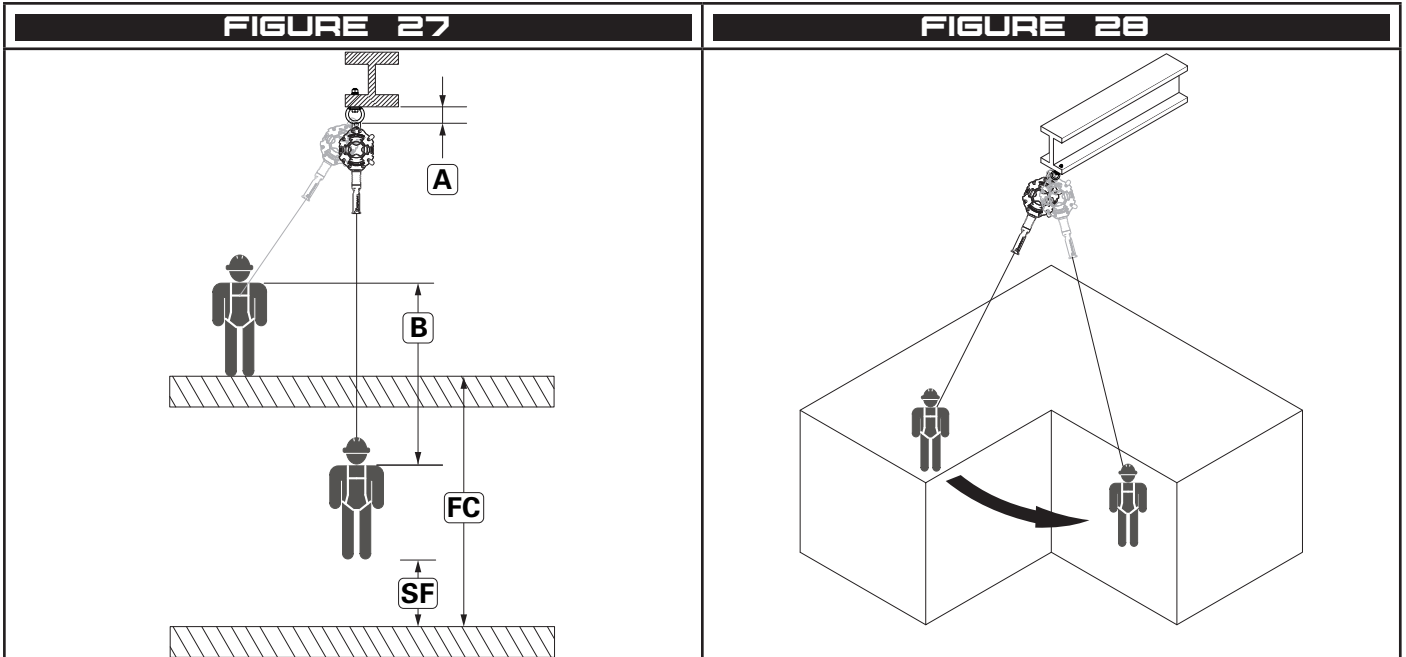
FIGURE 25		
Product Code	Hole Diameter (mm)	Max thickness (mm)
SWIVEL002	28	70



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 27 provides guidance on how to calculate fall clearance. In Figure 27, (A) represents the anchor deflection (50mm max), (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 $A+B+SF$.



4.2 Swing Fall

Working off centre of an anchor point may cause a swing fall. See Figure 28. 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

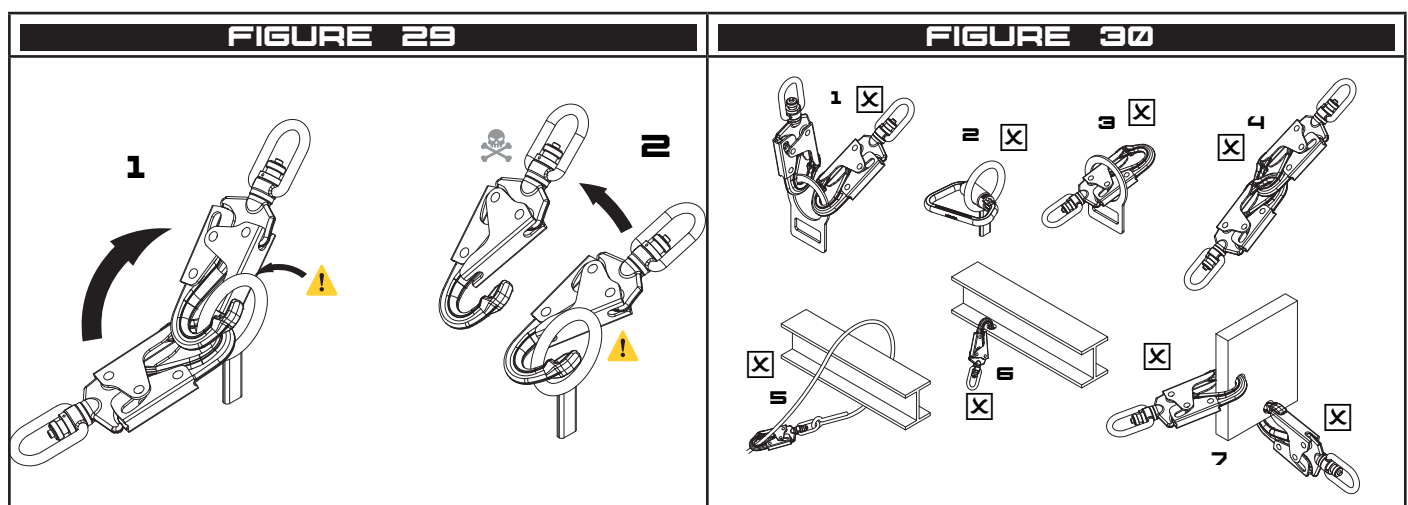
Only make compatible connections. Always ensure connectors close and lock correctly before use. Below and Figure 30 are examples of unsuitable connections;

- 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 29. 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.



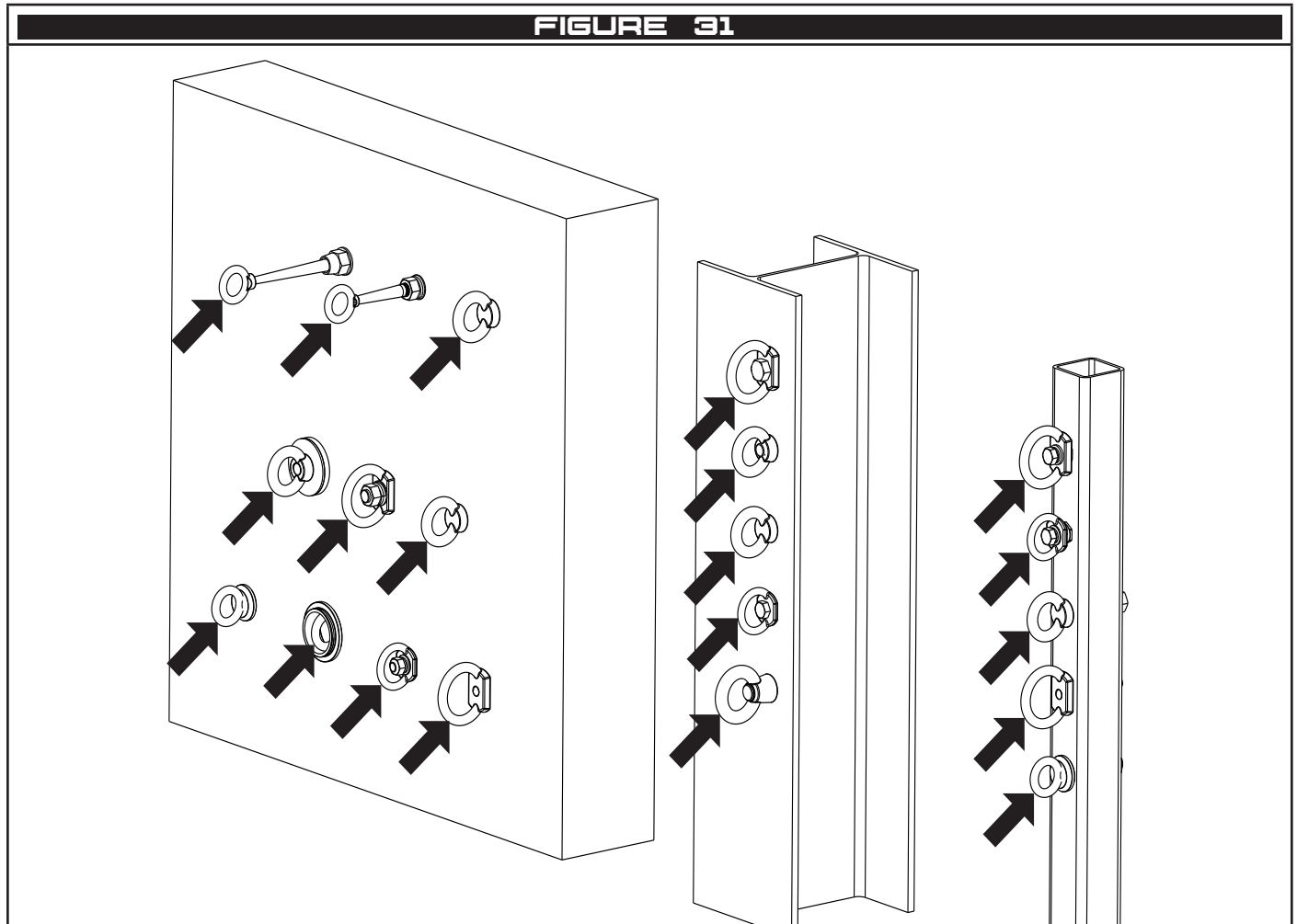
6 Use

6.1 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.

6.2 Use

- 1 Inspect the product and structure as per this instruction manual.
- 2 Connect the users fall arrest system to the attachment point on the product indicated in Figure 31.
- 3 The product may be used with a fall direction in any direction around the product.



- ⚠ This product is for a single user. Do not attach multiple users to this product.**
- ⚠ The connecting system shall contain a personal energy absorber.**
- ⚠ Do not attach to any other point on the anchor other than the specified attachment point.**
- ⚠ 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.**
- ⚠ During use always allow for the required fall clearance, swing fall and hazards present in the work place.**

7 Storage, Transport and Maintenance

7.1 Storage and transport

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

7.2 Maintenance

7.2.1 The anchors in this instruction are 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.

7.3 Cleaning

The anchors 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.

8 Inspection

8.1 Before and After Use

The Single Point Anchor shall be inspected before and after each use by the user.

8.2 Competent Person

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

8.3 Procedure

8.3.1 Attachment point - inspect for damage, deformation, corrosion or signs of over loading. Minor bending of the attachment point is acceptable provided there are no cracks.

8.3.2 Markings - inspect all markings are present and legible.

8.3.3 Proof Loading - Applicable for concrete anchors only as per AS/NZS1891.4. Proof load each fixing to 7.5kN in direct pull and hold for 1 minute. Competent person inspection only.

INSPECTION RECORD			
Product Code		Date of Manufacture	
Serial or Batch No.		Date of Install	
Inspector		Date of Inspection	
PROCEDURE	INSPECTION	USER	COMPETENT PERSON
8.3.1	Attachment point - inspect for damage, deformation, corrosion or signs of over loading. Minor bending of the attachment point is acceptable provided there are no cracks.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		
8.3.2	Markings - inspect all markings are present and legible.	<input type="checkbox"/>	<input type="checkbox"/>
	Comments:		
8.3.3	Proof Loading - Applicable for concrete anchors only as per AS/NZS1891.4. Proof load each fixing to 7.5kN in direct pull and hold for 1 minute. Competent person inspection only.	N/A	<input type="checkbox"/>
	Comments:		

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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