

INSTALLATION HANDBOOK

FROGLINE HORIZONTAL LIFELINE: Installation into Concrete (DonutLink)

SafetyLink is an innovative anchor company achieving success and keeping you safe whilst working at heights.

- ROOF ANCHORS
- HORIZONTAL LIFELINES
- PERMANENT LADDERS
- LADDER STABILISERS
- TEMPORARY ANCHOR



Read entire handbook before installing SafetyLink products. All products must be installed in accordance with SafetyLink's installation handbook, using only products supplied by SafetyLink Pty Ltd. Failure to follow all warnings and instructions may result in a serious injury or death.



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INSTALLATION OF A SAFETYLINK FROGLINE HORIZONTAL LIFELINE INTO CONCRETE STRUCTURE USING DONUTLINK

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FROGLINE VIDEO



FROGLINE INSTALLATION GUIDE



FROGLINE CATALOGUE

READ CAREFULLY SOMEONE'S LIFE DEPENDS ON IT

- The building or structure for the anchorages should be assessed by an engineer, unless it is clear to a competent height safety installer that the structure is adequate.
- SafetyLink 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. 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 height safety installer.
- To prevent galling of non-permanent or adjustable stainless steel components use nickel anti-seize or similar boundary layer lubricant.
- Recommended waterproofing for roof tiles: *Sika Flex Co-Polymer Sealant*.
- Recommended waterproofing for metal roof: *Silicone Sealant Neutral Cure*.
- Recommended chemical anchor: Fischer FIS-V or FIS-SB as per Fischer Product Supplement Data sheets.
- All bolt threads must be applied with Loctite 243 thread-locker prior to assembly. (IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).
- 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.
- SafetyLink Horizontal Lifelines are not intended to be installed on roof pitches greater than 25 degrees.

 **MAXIMUM NUMBER OF USERS PER SYSTEM IS FOUR (4).**

 **MAXIMUM NUMBER OF USERS PER SPAN IS TWO (2).**

 **REFER TO SYSTEM INFORMATION FOR SITE SPECIFIC USE.**



MAINTENANCE – PERIODIC INSPECTIONS

All items of height safety equipment which are in regular use shall be subjected to periodic inspection and servicing.

These regular scheduled inspections and servicing must be carried out by a competent height safety installer (*refer to AS/NZS 1891.4:2009 if clarification required or contact SafetyLink*).

SafetyLink Anchorages (*In accordance with AS/NZS 1891.4:2009*)

ALL ANCHORAGES MUST BE INSPECTED EVERY 12 MONTHS.

Procedures to be followed at inspection time:

- Visually inspect anchors for signs of deterioration.
- The FrogLine End, Intermediate and Corner anchor points have energy absorbing regions and stabilising joins. If these energy absorbing regions are expanded this will indicate the anchor point has arrested a fall and should be replaced. Similarly, if the stabilising joins have been broken this would also indicate the anchor point has arrested a fall and should be replaced. (*The design features of the FrogLine's curved profile provides the initial shock absorbing capabilities in the event of a fall. Further extension is provided in the serpentine shapes which progressively dissipate and absorb energy whilst retaining their strength. This lessens the force on the person falling and the structure the anchor is attached to*).
- Visually inspect the components of the anchor for corrosion, superficial surface marking is permitted while deeper corrosion or pitting would require attention.
- Manually (by hand) check the 16mm bolt securing the FrogLine Base to the Concrete DONUTLINK for rigidity and tightness. If the Bolt can turn in the anticlockwise direction it will require attention.
- Visually inspect the attachment component of the anchorage where practically possible.
- Visually inspect the parent structure for modifications or deterioration which might lead to loss of anchorage strength.
- Check the full length of the stainless steel cable for any evidence of wear, cuts, looseness, extension, inter-strand wear, corrosion, stiffness, brittleness or fraying.
- Check the integrity of cable terminations and that lifeline tensioners are correctly adjusted (80kg/0.8kN/800N) and lock nuts are tensioned correctly.
- Check for the presence of contaminants or exposure to corrosive or extreme environment signs may include discoloration, crystallising or oxidation. These could significantly reduce the safe working load of the Lifeline.
- Run the FrogLine Shuttle along the full length of the life line to verify its correct function.
- For Concrete Installation Only: To comply with Australian Standards, each ConcreteLink must be tested after installation and at every recertification inspection. Ensure you wait the recommended curing time as specified by the chemical anchor instructions. The pull test can be done using a 16mm threaded eyebolt. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

IN ADDITION TO SAFETYLINK PTY LTD EQUIPMENT, ALL ANCILLARY EQUIPMENT MUST BE INSPECTED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND THE MANUFACTURER'S INSTRUCTIONS.



**FOR MAINTENANCE ADVICE AND SERVICES PLEASE CONTACT SAFETYLINK
ON +61 249 641068 OR 1300 789545 FOR YOUR NEAREST SAFETYLINK INSPECTION SERVICE CENTRE
OR EMAIL: info@safetylink.com**

WARRANTIES

EXTRACT: SafetyLink Pty Ltd STANDARD TERMS AND CONDITIONS

- 11.1 To the extent permitted by law all implied conditions, warranties and undertakings are expressly excluded.
- 11.2 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.
- 11.3 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.
- 11.4 The Company will not be 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 of her than as stated above, whether ordinary or exemplary, caused either directly or indirectly by use of the Goods.
- 11.5 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.



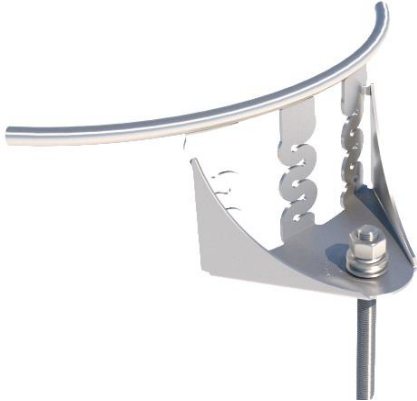



Please note that the benefits to the purchaser (as a consumer) given by this warranty are in addition to your other rights and remedies under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund 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.

- 11.6 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.
- 11.7 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).



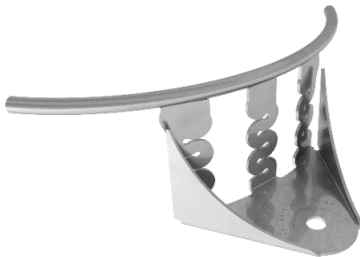
PLEASE SEE SAFETYLINK PTY LTD FULL STANDARD TERMS OF CONDITIONS OF SALE FOR FURTHER REFERENCE.


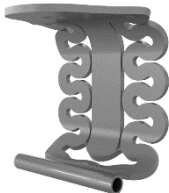







FROGLINE CONCRETELINK LIFELINE – COMPLETE UNITS

COMPLETE CONCRETE ANCHORS		
		
FrogLine End	FrogLine End <u>OVERHEAD</u>	FrogLine Corner
PRODUCT CODE: STAT.FROGCAR002	PRODUCT CODE: STAT.FROGCAR009	PRODUCT CODE: STAT.FROGCAR003
		
FrogLine Intermediate	FrogLine Intermediate <u>OVERHEAD</u>	FrogLine Intermediate <u>EXTENDED</u>
PRODUCT CODE: STAT.FROGCAR001	PRODUCT CODE: STAT.FROGCAR004	PRODUCT CODE: STAT.FROGCAR008

FROGLINE CONCRETELINK LIFELINE – COMPONENTS

CONCRETE ANCHOR COMPONENTS		
 <p>FrogLine Base End</p>	 <p>FrogLine Base End OVERHEAD</p>	 <p>FrogLine Base Corner</p>

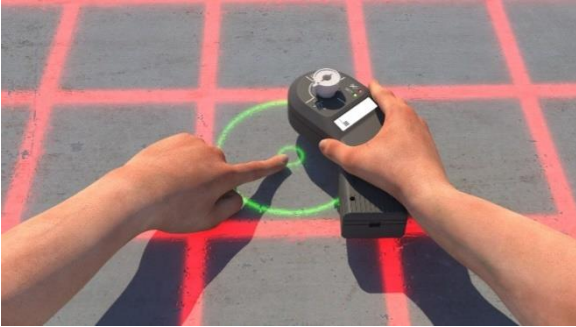
 <p>FrogLine Base Intermediate</p>	 <p>FrogLine Base Intermediate OVERHEAD</p>	 <p>FrogLine Base Intermediate EXTENDED</p>
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COMPONENTS FOR INTERMEDIATE, END AND CORNER BASES		
QTY	PRODUCT DESCRIPTION	PRODUCTS
1	SS316 M16x130mm Anchor rod	
1	SS316 DonutLink washer	
1	SS316 M16 Spring washer	
1	SS316 M16 Nut	

FROGLINE CONCRETELINK LIFELINE – INSTALLING FROGLINE DONUTLINK

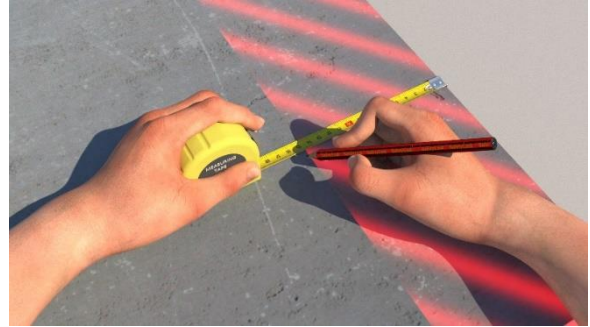
STEP 1

LOCATE THE STEEL IN THE CONCRETE. Use a digital metal detector to locate the steel when positioning the Anchor Rod into the concrete. This ensures steel is avoided when drilling.



STEP 2

Mark out the position to be drilled. NOTE: DonutLink FrogLine should not be positioned close to an edge, minimum distance 150mm. If any doubt exists as to the strength of the structure an engineer should make the assessment.



STEP 3

Mark drill bit or set drill depth to 95mm, this enables easy detection of correct length.



STEP 4

Drill a 18mm hole into the concrete (minimum 90mm embedment into structure concrete). The hole must be moisture and dust free (using a form of compressed air, vacuum or brush to clean it).



STEP 5

Apply the recommended epoxy adhesive into the hole at the rate stated by the product manufacture. Refer the adhesive manufacturer's catalogue for the adhesive strength and installation requirements.



STEP 6

Insert the M16 anchor rod down into the adhesive in the hole. **Allow only 35mm anchor stud above slab finishing.** Ensure you use enough adhesive chemical as specified by the chemical manufacturer to cover the hole. A small amount of gel should be expelled once the rod is installed, wipe excess away.



FROGLINE CONCRETELINK LIFELINE – TESTING FROGLINE DONUTLINK

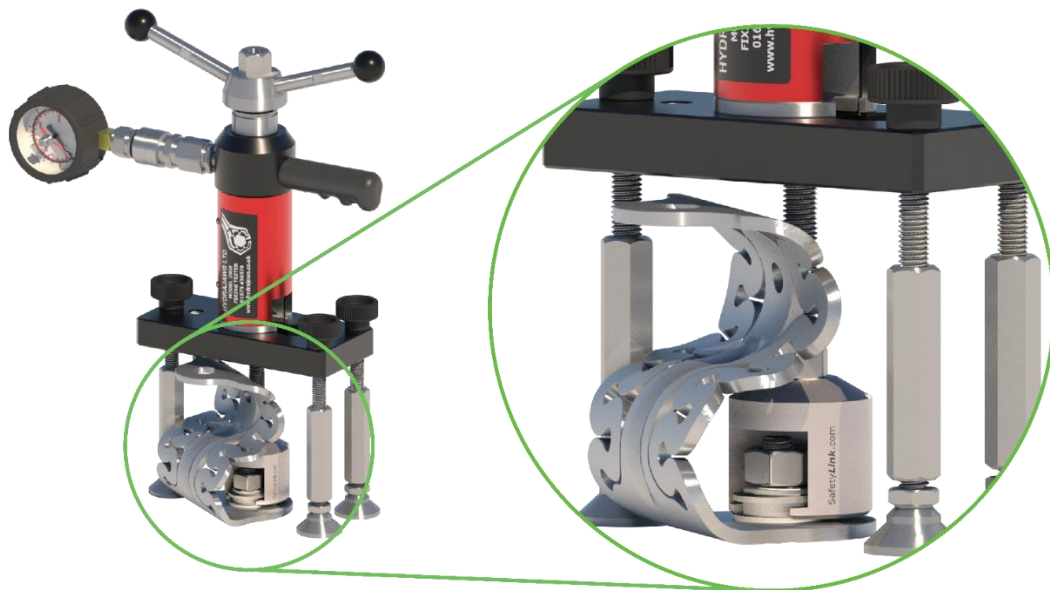
- To comply with current Standards, each Concrete anchor must be tested after installation and at every recertification inspection.
- Ensure you wait the recommended curing time as specified by the chemical manufacturer.
- The pull test can be done using DonutLink washer as an attachment point.
- Use the DonutLink adaptor with Hydrajaws pull tester to connect into DonutLink washer.
- Test consists of proof loading to 50% of the intended anchor rating of 15kN.
- Install the pull test adaptor with calibrated pull test device into DonutLink washer as shown below image. Load anchorage point to 7.5kN, refer pull test device instructions.
- Ensure energy absorbing regions of the anchor system are not loaded during this test.
- Check concrete and chemical adhesive as secure and damage free, refer to periodic inspections.



DonutLink Adapter



DonutLink Adapter with Pull Tester



Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For FrogLine DonutLink components this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.

- ⚠ **NOTE:** All bolt threads must be applied with Loctite 243 thread-locker prior to assembly. (IMPORTANT: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).
- ⚠ Recommended chemical anchor: Fischer FIS-V or FIS-SB as per Fischer Product Supplement Data sheets.
- ⚠ DonutLink should not be positioned close to an edge, minimum distance 150mm.
- ⚠ If any doubt exists as to the strength of the structure an engineer should make the assessment.
- ⚠ During installation you must be safe at all times.

FROGLINE CONCRETELINK LIFELINE – INSTALLATION INTO DONUTLINK

FOLLOW BELOW STEPS FOR END, INTERMEDIATE AND CORNER UNITS

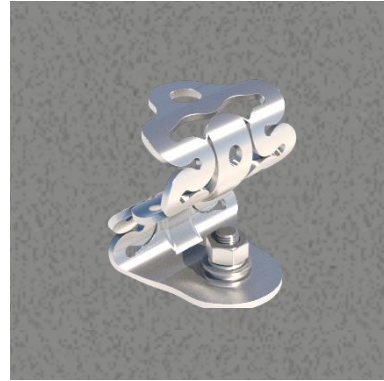
STEP 1

Install Rod as per page 8 instructions.
Then place FrogLine Base on top of the installed Threaded Rod. Apply Loctite 243 to the threaded rod. Then place DonutLink, Spring Washer and Nut onto Threaded Rod.
IMPORTANT NOTE: Before applying Loctite 243 use, use loctite 7471 primer to activate the surface according to manufacturer's instructions).



STEP 2

Tighten the fasteners making certain the FrogLine Base Unit lines up with the direction of the lifeline.



IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions

Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For FrogLine ConcreteLink components this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.

FROGLINE CONCRETELINK LIFELINE – OVERHEAD MOUNTED

OVERHEAD END AND INTERMEDIATE UNITS

STEP 1

Install Rod as per page 8 instructions (When installing Threaded Rod overhead ensure you are able to brace the rod in place till the adhesive sets).
Then place FrogLine Base on top of the installed Threaded Rod. Apply Loctite 243 to the threaded rod. Then place DonutLink, Spring Washer and Nut onto Threaded Rod. **IMPORTANT NOTE:** Before applying Loctite 243 use, use loctite 7471 primer to activate the surface according to manufacturer's instructions).



STEP 2

Tighten the fasteners making certain the FrogLine Base and Intermediate Units lines up with the direction of the lifeline.



OVERHEAD CORNER (2 INTERMEDIATES & CORNER TUBE)

STEP 1

To install a corner onto concrete overhead, use two Intermediate Base Units with a Corner Tube. Measure where to install Concrete Rods leaving space for Corner Tube. Install Threaded Rod as per page 8 instructions (when installing Threaded Rod overhead ensure you are able to brace the rod in place till the adhesive sets).

STEP 2

Place FrogLine Intermediate on top of the Threaded Rod. Apply Loctite 243 to the threaded rod. Then place DonutLink, Spring Washer and Nut onto Threaded Rod. **IMPORTANT NOTE:** Before applying Loctite 243 use, use Loctite 7471 primer to activate the surface according to manufacturer's instructions). Tighten bolt making certain the FrogLine Base Unit lines up with the direction of the lifeline.

STEP 3

Once anchors are installed, thread cable through Intermediate, Corner Tube and second Intermediate.

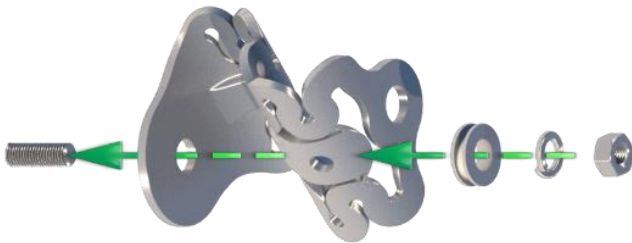


FROGLINE CONCRETELINK LIFELINE – WALL MOUNTED END/INTERMEDIATE

WALL MOUNTED END AND INTERMEDIATE UNITS

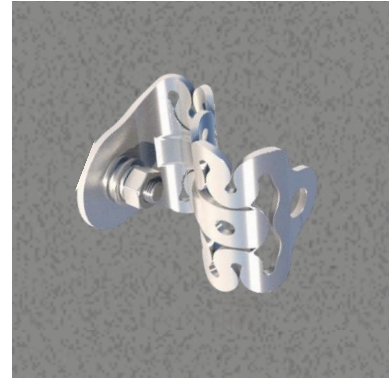
STEP 1

Install Rod as per page 8 instructions (when installing Threaded Rod overhead ensure you are able to brace the rod in place till the adhesive sets). Then place FrogLine Base on top of the installed Threaded Rod. Apply Loctite 243 to the threaded rod. Then place DonutLink, Spring Washer and Nut onto Threaded Rod. **IMPORTANT NOTE:** Before applying Loctite 243 use, use loctite 7471 primer to activate the surface according to manufacturer's instructions).



STEP 2

Tighten the fasteners making certain the FrogLine Base and Intermediate Units lines up with the direction of the lifeline.



IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions

Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For FrogLine ConcreteLink components this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.

FROGLINE CONCRETELINK LIFELINE – WALL MOUNTED CORNERS

WALL MOUNTED INTERNAL & EXTERNAL CORNER WITH CORNER TUBE

STEP 1

To install an internal corner on a concrete wall, use two Intermediate Base Units with a Corner Tube.

Measure where to install Concrete DonutLinks leaving space for Corner Tube. Install Concrete DonutLinks as per page 8 instructions. (When installing Threaded Rod on the wall ensure you are able to brace the Rod in place till the adhesive sets).

STEP 3

Once anchors are installed, thread cable through Intermediate, Corner Tube and second Intermediate.

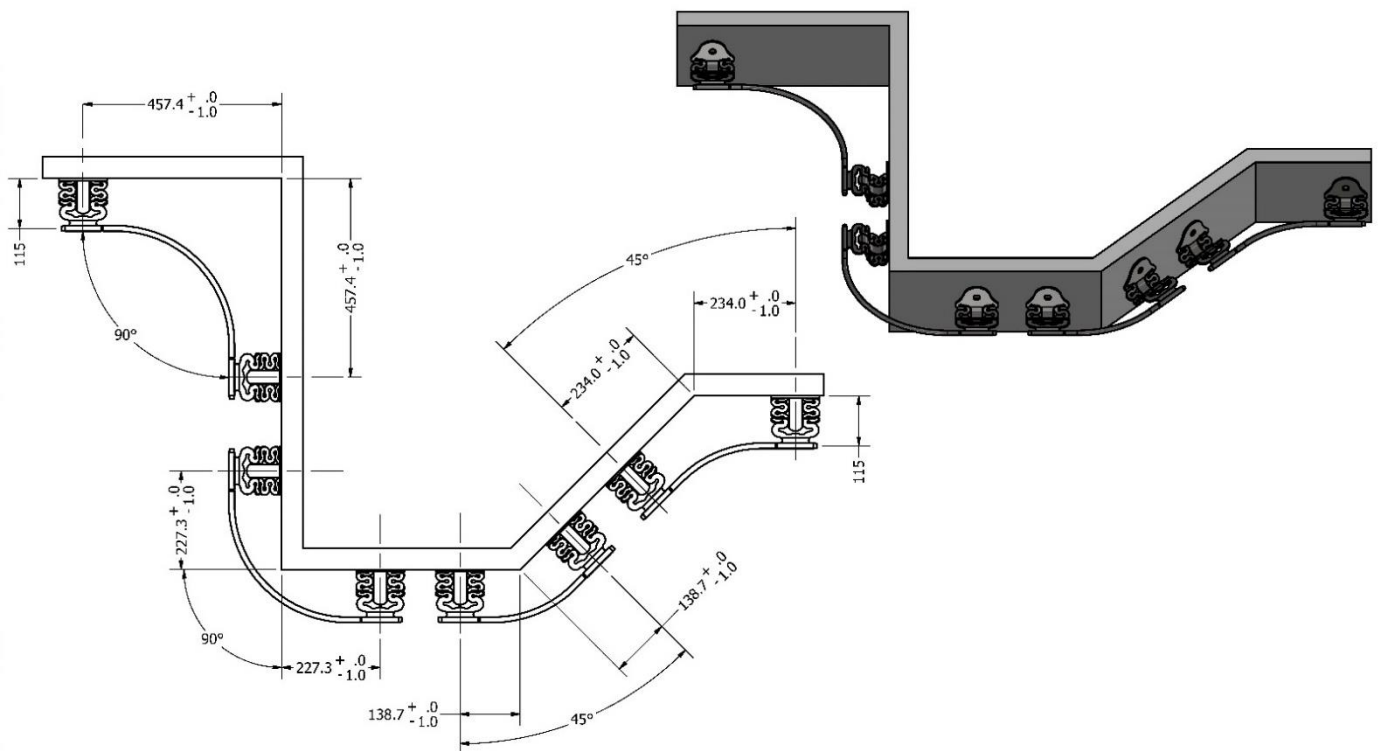
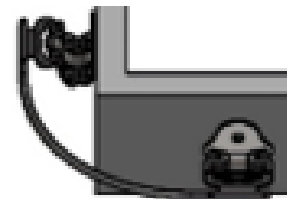
STEP 2

Place FrogLine Intermediate on top of the Threaded Rod. Apply Loctite 243 to the threaded rod. Then place DonutLink, Spring Washer and Nut onto Threaded Rod. IMPORTANT NOTE: Before applying Loctite 243 use, use Loctite 7471 primer to activate the surface according to manufacturer's instructions). Tighten bolt making certain the FrogLine Base Unit lines up with the direction of the lifeline.

Internal Corner



External Corner



LIFELINE SYSTEM INSTALLATION

INSTALLATION: CABLE, TENSIONERS & TERMINATION FITTINGS

1. Install *Swaged/Swageless Termination* to the cable in accordance with product guidelines. See [Appendix A or B](#).
2. Determine which end is most suitable to have the cable *Tensioner with Tension Indicator*. (Some lifelines may require a *Tensioner with Tension Indicator* on both ends). Connect the cable with *Termination* end to the *FrogLine End Anchor* top connection point. This will be at the opposite end to where the *Tensioner* end will be. (Ensure securing pin has been installed correctly).
3. Install the cable through *Intermediates* and *Corners* to the opposite end of the Lifeline system (Intermediates must be installed as per installation manual, **maximum distance between End, Intermediate and Corner Anchors is 10 metres**).
4. Connect *Swaged/Swageless Tensioner with Tension Indicator* to *FrogLine End Anchor* top connection point. (Do not attach *Tensioner* to cable at this stage).
5. Adjust the *Tensioner* out to the maximum safe length.
6. Match the cable along the side of the *Tensioner* and mark where to cut cable so that it will reach safely in to the *Tensioner* unit in accordance with product guidelines. [Appendix A or B](#).
7. Cut cable to length.
8. Install *Swaged/Swageless Tensioner* fitting to cable as per [Appendix A or B](#). Connect *Tensioner* to *FrogLine End Anchor* top connection point (Ensure securing pin has been installed correctly).
9. Tension cable until the disc on the Tension Indicator can spin and indicates 80kg/0.8kN/800N.

TIGHTENING ASSEMBLY & TORQUE SETTINGS FOR SWAGELESS TERMINALS

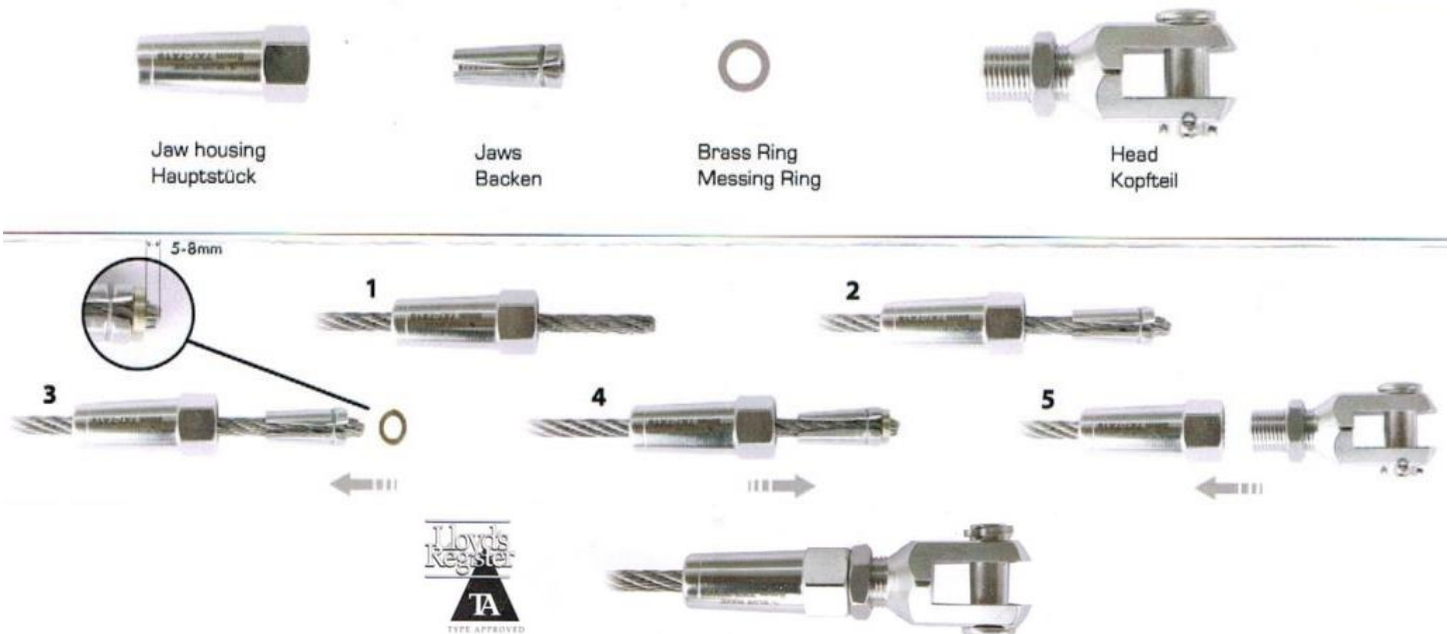
Wire size:		Nm	Lbf ft
Ø 3	-	11	8.25
-	1/8"	11	8.25
Ø 4	5/32"	17	12.75
-	3/16"	22	16.5
Ø 5	-	22	16.5
-	7/32	38	28.5
Ø 6	-	38	28.5
-	1/4"	38	28.5
Ø 7	9/32"	48	35.5
Ø 8	5/16"	58	43.0
-	3/8"	75	55.5
Ø 10	-	75	55.5
Ø 12	-		
-	1/2"		
Ø 14	-		
Ø 16	-		

APPENDIX A – SWAGELESS/SWAGED FITTINGS INSTALLATION



BLUE WAVE®

Swageless SS Terminal 8mm 7x7, 7x19



Make sure that the cable matches the terminal.

The SS terminal use only for 8mm 7x7 and 7 x 19 Stainless Wire.

Do not reuse jaws or house.

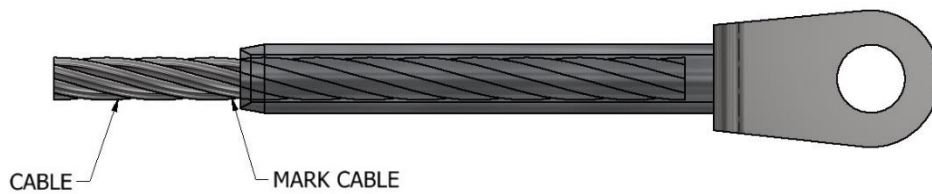
- 1 Slide the jaw housing in place on the cable.
- 2 Slide the jaws onto the cable, ensuring there is equal space between the jaws.
- 3 Place the brass pressure ring on the end of the cable. Make sure that the distance from the pressure ring to the end of the cable is 5-8mm.
- 4 Slide the jaw housing over the jaws.
- 5 The terminal can now be assembled. Screw the head on the jaw housing with a torque wrench – **min. 58 Nm (43Lbf ft)**, Tighten the lock nut with **min. 50 Nm (36 Lbf ft)**.

Note: after the first dynamic load the terminal **MUST** be tightened again. When assembling Swageless Terminals the breaking strength of the cable will be reduced by 0-15%.

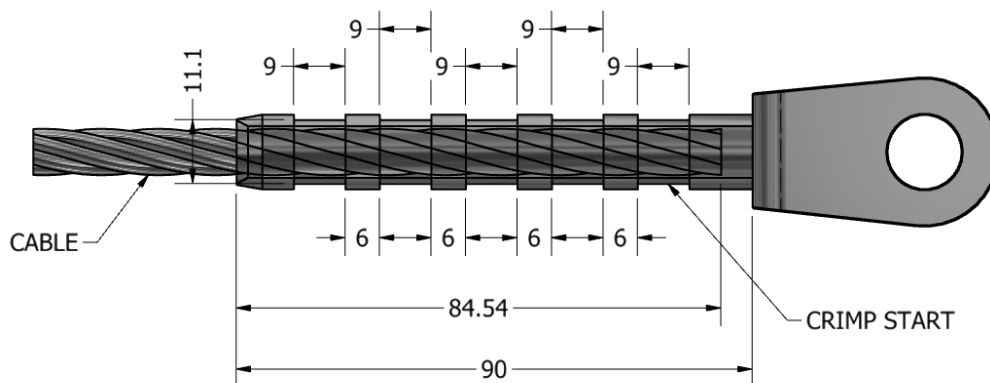
The user is responsible for choosing the proper cable, and for correct assembly.



APPENDIX B – CRIMPED FITTINGS INSTALLATION



1. Insert the cable into the open end of the fitting to be swaged, mark the cable where the cable and the fitting meet. Remove the cable and check that the mark is at least 84mm from the cable end.



2. Re-insert the cable into the fitting to distance previously marked. Start swaging the fitting from the closed end as shown above. Continue to swage as indicated above 5 times, first swage is 6mm from the depth indicator.
3. Ensure that you can no longer see the mark that was made in Step 1. Check the crimped sections are within the allowable tolerances using Vernier Calipers. (Allowable tolerances = $11.10 \pm 0.2\text{mm}$).

IMPORTANT NOTES TO REMEMBER

- ⚠ Ensure marked cable as indicated in step one is a minimum of 84mm.
- ⚠ Ensure all crimped sections (flat) are with 11.10mm, with a tolerance level of + or - 0.2mm. This distance should be the case of all 8mm 7 x 19 and 7 x 7 cable. The measurement should be taken with Vernier Calipers to ensure accuracy. If your measurements are outside the acceptable tolerance range this can be a sign of either a loss of pressure in your swaging tool or an indication that your dies are worn or incompatible. Any swaging that occurs outside the acceptable tolerances will need to be restarted using the appropriately amended tools.
- ⚠ When swaging terminations the mark made in step 1 will disappear during the final swage due to the lengthening of the material during the swaging operation.
- ⚠ The swaged end has a mark indicating the end of the solid section (depth indicator) of the unit and the start of the hollow section. Start swaging 6mm from the mark indicating the solid section.
- ⚠ When completed the swaged section should be a minimum of 80mm long. The dies are made with a 9mm wide section to crimp. These 9mm crimping sections need to be completed 5 times, leaving five flat sections along the swaged end. In between each crimped section you need to maintain a distance of between 5 and 6mm.
- ⚠ **DO NOT** swage the solid section indicated by the mark on the unit this will damage the swaging tool and the dies.

CONNECTING TO THE LIFELINE SYSTEM

1. Remove the Karabiner from the FrogLine Shuttle. The supplied Karabiner is a SafetyLink steel trilock and needs three distinct movements to be removed from the shuttle (Slide gate up, twist gate, depress gate).
2. Slide the inner component of the FrogLine shuttle to the right or left of the shuttle body. This will put the two shuttle karabiner connecting holes adjacent to each other and widen the mouth of the shuttle. The shuttle is now in the open position and can be placed face down onto the lifeline cable.
3. To lock the shuttle onto the cable, push the inner component from its position to the right or left back across the shuttle body. This will re-align the karabiner connection holes and narrow the mouth of the shuttle.
4. Insert the SafetyLink Karabiner through both connecting holes. This locks the shuttle body and inner component of the shuttle together and ensures the shuttle remains in the closed position. Check that the Karabiner has locked correctly. The Shuttle is now secured to the lifeline system.
5. It is a requirement when connecting a lanyard between the users harness and FrogLine shuttle/lifeline system that a personal tear web energy absorber be used. This tear web energy absorber needs to be at the harness end of the lanyard to ensure maximum energy absorption.

⚠ MAKE SURE YOU ARE SAFE AT ALL TIMES WHILST ATTACHING OR DETACHING FROM THE FROGLINE LIFELINE SYSTEM.

⚠ A FALL RESCUE PLAN SHOULD BE DEVELOPED PRIOR TO USING SAFETYLINK EQUIPMENT.

⚠ ENSURE YOU USE THE SAFETYLINK KARABINER SUPPLIED ONLY.



PROGRESSING ALONG THE LIFELINE SYSTEM

1. Always progress the system manually. Do not progress in any vehicle or motioning device.
2. When progressing towards a corner, to ensure the FrogLine Shuttle continues on a smooth path avoid cutting the corner sharply.
3. Do not place any tools or equipment onto the lifeline system.

DISCONNECTING FROM THE LIFELINE SYSTEM

1. If you are attaching to an alternative fall arrest system ensure you are attached to that system before disconnecting from the FrogLine System.
2. Unlock Karabiner and detach it from the FrogLine Shuttle.
3. Slide the inner component of the FrogLine shuttle to the right or left of the shuttle body. This will put the two shuttle karabiner connecting holes adjacent to each other and widen the mouth of the shuttle. The shuttle is now in the open position and can be removed from the lifeline cable.
4. Slide inner component of Shuttle into original position and insert Karabiner through the two connecting holes to store.



REMEMBER YOU MUST BE SAFE AT ALL TIMES.

Where a risk of a fall exists on entering or exiting the lifeline system additional fall prevention measures must exist. Where additional fall prevention exists on entry and exit the user must ensure:

1. Attachment is correctly made to the lifeline system before detaching from the additional fall prevention system.
2. DO NOT detach from the lifeline system unless correct attachment is made to the additional fall prevention system.

SAFETYLINK FROGLINE OVERHEAD SHUTTLE

Product Code: STAT.SHUTL002

CONNECTING TO THE LIFELINE SYSTEM

1. Remove the karabiner from the overhead shuttle. The supplied Karabiner is a SafetyLink steel trilock and needs three distinct movements to be removed from the shuttle (slide gate up, twist gate, depress gate).
 2. Twist the shuttle gate to the right or left of the shuttle body. This will put the shuttle gate off to one side widening the mouth of the shuttle. The shuttle is now in the open position and can be placed onto the lifeline cable.
 3. To lock the shuttle onto the cable, twist the shuttle gate back to the centre position on the shuttle body. This will re-align the karabiner connection holes and narrow the mouth of the shuttle. Insert the karabiner through both connecting holes. This will lock the shuttle body and shuttle gate together and ensures the shuttle remains in the closed position. Check that the karabiner has locked correctly. The shuttle is now secured to the lifeline system.
 4. It is a requirement when connecting a lanyard between the users harness and shuttle/lifeline system that a personal tear web energy absorber be used. This tear web energy absorber needs to be at the harness end of the lanyard to ensure maximum energy absorption.
- ⚠ MAKE SURE YOU ARE SAFE AT ALL TIMES WHILST ATTACHING OR DETACHING FROM THE FROGLINE SYSTEM.**
- ⚠ A FALL RESCUE PLAN SHOULD BE DEVELOPED PRIOR TO USING SAFETYLINK EQUIPMENT.**
- ⚠ ENSURE YOU USE THE SAFETYLINK KARABINER SUPPLIED ONLY.**



PROGRESSING ALONG THE LIFELINE SYSTEM

1. Always progress the system manually. Do not progress in any vehicle or motioning device.
2. When progressing towards a corner, to ensure the Shuttle continues on a smooth path avoid cutting the corner sharply.
3. Do not place any tools or equipment onto the lifeline system.

DISCONNECTING FROM THE LIFELINE SYSTEM

1. If you are attaching to an alternative fall arrest system ensure you are attached to that system before disconnecting from the FrogLine System.
2. Unlock Karabiner and detach it from the FrogLine Shuttle.
3. Twist the shuttle gate to the left or right of the shuttle body. This will put the two shuttle karabiner connecting holes adjacent to each other and widen the mouth of the shuttle. The shuttle is now in the open position and can be removed from the lifeline cable.
4. Twist shuttle gate back to the centre of the shuttle into its original position and insert Karabiner through the two connecting holes to store.



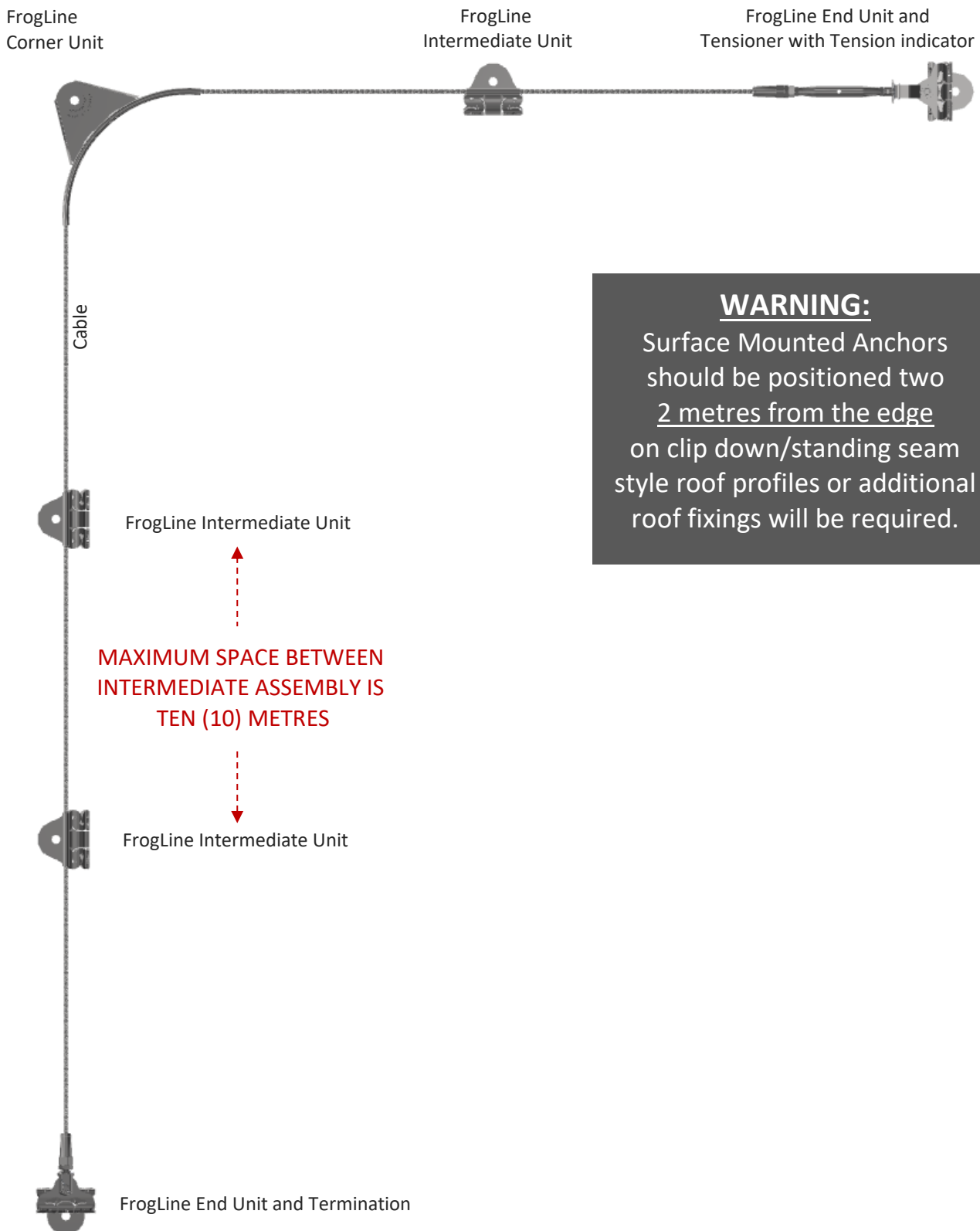
⚠ REMEMBER YOU MUST BE SAFE AT ALL TIMES.

Where a risk of a fall exists on entering or exiting the lifeline system additional fall prevention measures must exist. Where additional fall prevention exists on entry and exit the user must ensure:

1. Attachment is correctly made to the lifeline system before detaching from the additional fall prevention system.
2. DO NOT detach from the lifeline system unless correct attachment is made to the additional fall prevention system.

EXAMPLE: HORIZONTAL LIFELINE ON PITCHES BELOW 25 DEGREES

All working at heights safety procedures must be complied with when installing SafetyLink Height Safety Systems. For more information refer to your state or territories current legislation, regulations, policies and codes of practices. Horizontal height safety lifelines must only be installed and used by competent people with relevant current height safety qualifications.



SAFETYLINK HEIGHT SAFETY SYSTEMS MUST ONLY BE INSTALLED AS PER OUR INSTALLATION GUIDES, TO STRUCTURES AS SPECIFIED IN THE INSTALLATION MANUAL FOR EACH PRODUCT. SHOULD ANY DOUBT EXIST IN REGARD TO THE STRUCTURES INTEGRITY AN ENGINEER SHOULD BE CONSULTED.

IN CASE OF ACCIDENT

- ⚠ **A FALL RESCUE PLAN SHOULD BE DEVELOPED PRIOR TO USING SAFETYLINK EQUIPMENT.**
- ⚠ **PERSONS WORKING AT HEIGHTS SHOULD NOT WORK ALONE.**

It is critical that before using any SafetyLink Systems a fall rescue plan is in place for any persons suspended mid-air following a fall. Serious injury or death can occur in a matter of minutes, particularly if a person's movement or breathing is restricted or loss of consciousness has occurred. In accordance with your fall rescue plan and appropriate first aid procedures it is essential to remove the person from the suspended position as quickly as possible.

IN ACCORDANCE WITH AS/NZS 1891.4:2009 CLAUSE 9.5

EQUIPMENT WHICH HAS ARRESTED A FALL OR SHOWS A DEFECT

Any piece of equipment including both personal and permanently installed items, which has been used to arrest a fall or which shows any defect during operator or periodic inspection shall be withdrawn from service immediately and a replacement obtained if necessary. A label indicating the condition or defect should be attached to the equipment, and it should be examined by a competent height safety installer who will decide whether the equipment is to be destroyed or repaired if necessary and returned to service. In the latter case, details of any repair shall be documented, and a copy given to the operator.



DISTRIBUTOR:

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